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SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS. INDONESIAN COASTAL MARINE AREAS. VOLUME I. AREA 1 - SOUTHEAST SUMATRA. AREA 2 - CHRISTMAS ISLAND. AREA 3 - SUNDA STRAIT. AREA 4 - NORTHWEST JAVA SEA. AREA 5 - BANGKA ISLAND NORTHWEST. AREA 6 - NATUNA ISLAND. AREA 7 - SARAWAK

Naval Weather Service Command
Washington, D. C.

April 1975

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U. S. DEPARTMENT OF COMMERCE

U. S. NAVAL WEATHER SERVICE COMMAND

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SYNOPTIC METEOROLOGICAL OBSERVATIONS
INDONESIAN COASTAL MARINE AREAS
VOLUME 1
AREA 1 - SOUTHEAST SUMATRA
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Prepared under the direction of the U.S. Naval Weather Service Command
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SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (MONTHLY AND ANNUAL)

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

Before the tables are prepared, extreme values of selected parameters are scrutinized so that obvious errors can be excluded. This method is necessarily subjective since the only available record of many observations is the punched card from which the tape records were prepared. Frequently there is no concrete evidence to prove or disprove the validity of questionable data.

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

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

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

THE TABLES

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

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

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

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

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

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

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

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

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

Table 5 - Percentage Frequency of Total Cloud Amount (Oktas) by Wind Direction (8 pts.). This table includes mean cloud amount by wind direction.

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

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

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

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

Table 9 - Percentage Frequency of Wind Direction (8 pts.) vs. Wind Speed (kts.) with Varying Values of Visibility (Nautical Miles).

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

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

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

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

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

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

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

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

Air-Sea Temperature Difference is:

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

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

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

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

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

Table 21 - Monthly and Annual Sea Level Pressures (millibars). This table includes means by hour and for all hours, extreme values and percentile values.

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

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DIRECTION AND WEATHER CODES

CONVERSION OF WIND AND WAVE DIRECTION TO 8 POINTS

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

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



Fig 1 The 8 point direction system

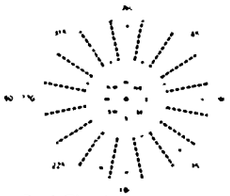


Fig 2 The 16 point direction system superimposed on the 8 point system

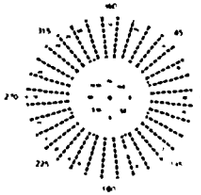


Fig 3 The 32 point direction system superimposed on the 8 point system

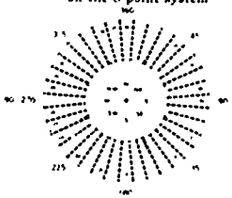


Fig 4 The 36 point direction system superimposed on the 8 point system

VISIBILITY (VV)

CODE	INTERPRETATION (NAUTICAL MILES)
90-93	VV<1/2
94	1/2≤VV<1
95	1≤VV<2
96	2≤VV<5
97	5≤VV<10
98	10≤VV<25
99	VV≥25

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

PRESENT WEATHER (1960 WMO CODE 4677)

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

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

NOTE: The following WMO codes were counted in two weather categories. 58-59 (rain and drizzle), 68-69 (rain and snow), 93-94 (rain and hail), 96 and 99 (hail and thunder lightning/thunderstorm), 95 and 97 (snow and thunder/lightning/thunderstorm), or (rain and thunder/lightning thunderstorm).

WAVE HEIGHT (from source decks 128 and 116)

RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)
00	≤.25	<1
01	>.25 to .75	1-2
02	>.75 to 1.25	3-4
03	>1.25 to 1.75	5-6
04	>1.75 to 2.25	7
05	>2.25 to 2.75	8-9
06	>2.75 to 3.25	10-11
07	>3.25 to 3.75	12
08	>3.75 to 4.25	13-16
09	>4.25 to 4.75	
10	>4.75 to 5.25	17-19
11	>5.25 to 5.75	
12	>5.75 to 6.25	20-22
13	>6.25 to 6.75	
14	>6.75 to 7.25	23-25
15	>7.25 to 7.75	
16	>7.75 to 8.25	26-32
17	>8.25 to 8.75	
18	>8.75 to 9.25	
19	>9.25 to 9.75	
20	>9.75 to 10.25	33-40
21	>10.25 to 10.75	
22	>10.75 to 11.25	
23	>11.25 to 11.75	
24	>11.75 to 12.25	
25	>12.25 to 12.75	41-48
26	>12.75 to 13.25	
27	>13.25 to 13.75	
28	>13.75 to 14.25	
29	>14.25 to 14.75	
30	>14.75 to 15.25	49-60
31	>15.25 to 15.75	
32	>15.75 to 16.25	
33	>16.25 to 16.75	
34	>16.75 to 17.25	
35	>17.25 to 17.75	
36	>17.75 to 18.25	
37	>18.25 to 18.75	61-70
38	>18.75 to 19.25	
39	>19.25 to 19.75	
40	>19.75 to 20.25	
41	>20.25 to 20.75	
42	>20.75 to 21.25	
43	>21.25 to 21.75	71-86
44	>21.75 to 22.25	
45	>22.25 to 22.75	
46	>22.75 to 23.25	
47	>23.25 to 23.75	
48	>23.75 to 24.25	
49	>24.25 to 24.75	
50	>24.75 to 25.25	
51	>25.25 to 25.75	
52	>25.75 to 26.25	
53-99	>26.25 to 49.75	≥87

Indeterminate=INDET

JANUARY

PERIOD: (PRIMARY) 1889-1967
(OVER-ALL) 1855-1967

AREA 0001 SOUTHEAST SUMATRA
3.7S 101.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	8.3	.0	.0	.0	.0	.0	.0	8.3	.0	16.7	.0	.0	.0	.0		75.0
NE	14.8	.0	.0	.0	.0	.0	.0	14.8	.0	14.8	.0	.0	.0	.0		85.2
E	25.0	.0	.0	.0	.0	.0	.0	25.0	.0	.0	.0	.0	.0	.0		75.0
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	14.8	.0	.0	.0	.0	.0	14.8	.0	.0	.0	.0	.0	.0		85.2
W	32.4	.0	8.1	.0	.0	.0	.0	40.5	.0	10.8	.0	.0	.0	.0		59.5
NW	9.3	11.4	.7	.0	.0	.0	.0	21.4	2.9	1.4	.0	.0	.0	.0		74.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	25.0	.0	.0	.0	.0		75.0
TOT PCT	10.2	5.7	1.1	.0	.0	.0	.0	17.0	1.1	5.7	.0	.0	.0	.0		78.4
TOT OBS:	88															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00003	14.3	9.5	.0	.0	.0	.0	.0	23.8	.0	4.8	.0	.0	.0	.0		71.4
06009	3.2	6.5	.0	.0	.0	.0	.0	9.7	3.2	.0	.0	.0	.0	.0		87.1
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7	.0	.0	.0	.0		93.3
18021	22.7	4.5	4.5	.0	.0	.0	.0	31.8	.0	13.6	.0	.0	.0	.0		63.6
TOT PCT	10.1	5.6	1.1	.0	.0	.0	.0	16.9	1.1	5.6	.0	.0	.0	.0		78.7
TOT OBS:	89															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.8	6.8	2.2	.2	.0	.0		10.9	7.8	15.8	.0	10.3	5.1	6.5	10.0	10.9	16.4
NE	1.6	3.1	.2	*	.0	.0		5.0	5.2	9.2	.0	3.0	.9	2.5	30.0	5.8	7.9
E	1.6	3.0	.2	.0	.0	.0		4.8	5.2	6.6	.0	4.0	1.0	3.5	20.0	5.7	7.6
SE	2.3	6.2	.7	.0	.0	.0		9.2	5.9	8.6	.0	8.3	7.4	10.4	20.0	10.3	10.0
S	2.1	3.7	.5	*	.0	.0		6.4	5.5	4.1	.0	5.5	9.8	6.9	.0	6.4	5.8
SW	1.8	4.0	.5	*	.0	.0		6.2	5.9	4.3	.0	4.3	12.3	8.8	.0	4.1	4.0
W	1.9	7.0	2.9	.6	.0	.0		12.4	8.9	8.1	.0	10.7	20.9	16.3	.0	11.7	7.5
NW	2.8	17.1	12.5	2.8	.1	.0		35.3	11.0	35.5	.0	42.7	37.5	33.2	10.0	30.9	31.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.8							9.8	.0	7.7	.0	11.2	5.1	11.9	.0	14.2	9.0
TOT OBS	779	1544	598	112	4	0	3037		7.6	519	0	516	492	497	5	473	535
TOT PCT	25.7	50.8	19.7	3.7	.1	.0		100.0		100.0	.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	5.4	4.9	.7	*	.0		10.9	7.8	15.8	7.8	6.6	13.8
NE	3.8	1.2	*	.0	.0		5.0	5.2	9.2	2.0	2.8	6.9
E	3.6	1.2	*	.0	.0		4.8	5.2	6.6	2.5	3.8	6.7
SE	6.1	2.9	.1	.0	.0		9.2	5.9	8.6	7.9	10.5	10.1
S	4.7	1.6	.1	.0	.0		6.4	5.5	4.1	7.6	6.9	6.1
SW	4.2	1.9	.1	.0	.0		6.2	5.9	4.3	8.2	8.7	4.1
W	5.7	4.9	1.7	.1	.0		12.4	8.9	8.1	15.7	16.1	9.4
NW	10.3	17.6	6.7	.6	*		35.3	11.0	35.5	40.2	33.0	31.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	9.8						9.8	.0	7.7	8.2	11.8	11.4
TOT OBS	1625	1100	288	23	1	3037		7.6	519	1008	502	1008
TOT PCT	53.5	36.2	9.5	.8	*		100.0		100.0	100.0	100.0	100.0

JANUARY

PERIOD: (PRIMARY) 1889-1967
(OVER-ALL) 1855-1967

AREA 0001 SOUTHEAST SUMATRA
3.7S 101.7E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	7.7	18.9	52.0	17.7	3.5	.2	.0	7.5	100.0	919
06&09	8.2	14.5	51.6	21.6	3.9	.2	.0	7.9	100.0	1008
12&15	11.8	14.1	51.0	20.1	3.0	.0	.0	7.3	100.0	502
18&21	11.4	16.6	49.4	18.6	4.0	.1	.0	7.4	100.0	1008
TOT	297	482	1544	598	112	4	0	7.6		3037
PCT	9.8	15.9	50.8	19.7	3.7	.1	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	6.1	2.0		7.0
NE	.0	.0	6.1	.0		6.8
E	.0	.0	.0	2.7		8.0
SE	.0	.7	2.7	2.7		6.6
S	.0	2.0	.0	.0		4.0
SW	.0	2.7	2.7	2.7		6.0
W	.0	4.7	2.0	7.4		6.0
NW	.0	8.1	20.9	14.9		6.3
VAR	.0	.0	.0	.0		.0
CALM	2.7	.0	8.1	.0		4.7
TOT OBS	1	6	18	12	37	6.1
TOT PCT	2.7	16.2	48.6	32.4	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	2.0	.0	2.0	.0	.0	4.1	
NE	.0	.0	.0	.0	2.7	.0	.0	.0	2.7	.0	.7	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.1	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	
SW	.0	.0	.0	2.7	.0	.0	.0	.0	.0	.0	5.4	
W	.0	.0	.0	5.4	.0	.0	.0	.0	.0	.0	8.8	
NW	.0	.0	2.7	5.4	8.1	.7	.0	.7	.0	.0	24.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.8	
TOT OBS	0	0	1	5	4	1	0	1	1	0	24	37
TOT PCT	.0	.0	2.7	13.5	10.8	2.7	.0	2.7	2.7	.0	64.9	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >90YD	* OR >0
* OR >6500	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
* OR >5000	2.7	5.4	5.4	5.4	5.4	5.4	5.4	5.4
* OR >3500	2.7	5.4	5.4	5.4	5.4	5.4	5.4	5.4
* OR >2000	5.4	8.1	8.1	8.1	8.1	8.1	8.1	8.1
* OR >1000	16.2	18.9	18.9	18.9	18.9	18.9	18.9	18.9
* OR >600	21.6	32.4	32.4	32.4	32.4	32.4	32.4	32.4
* OR >300	21.6	35.1	35.1	35.1	35.1	35.1	35.1	35.1
* OR >150	21.6	35.1	35.1	35.1	35.1	35.1	35.1	35.1
* OR > 0	21.6	35.1	35.1	35.1	35.1	35.1	35.1	35.1
TOTAL	8	13	13	13	13	13	13	13

TOTAL NUMBER OF OBS: 37 PCT FREQ NH <5/8: 64.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
.0	11.3	24.5	9.4	18.9	15.1	5.7	7.5	7.5 .0	53

JANUARY

PERIOD: (PRIMARY) 1889-1967
(OVER-ALL) 1855-1967

AREA 0001 SOUTHEAST SUMATRA
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	1.1	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	1.1	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	2.3	.0	.0	2.3	
2<5	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	2.3	.0	.0	2.3	
	PCP	.9	1.1	.0	.0	.0	.0	2.3	4.8	.0	.0	9.1	
5<10	NO PCP	3.7	.0	.0	.6	.6	1.1	1.1	6.5	.0	.0	13.6	
	TOT %	4.5	1.1	.0	.6	.6	1.1	3.4	11.4	.0	.0	22.7	
	PCP	.0	.0	1.1	.0	.0	1.1	2.0	.3	.0	.0	4.5	
10+	NO PCP	5.7	6.5	3.4	7.1	6.8	5.4	5.1	24.7	.0	4.5	69.3	
	TOT %	5.7	6.5	4.5	7.1	6.8	6.5	7.1	25.0	.0	4.5	73.9	
	TOT OBS												88
	TOT PCT	10.2	7.7	4.5	7.7	7.4	7.7	10.5	39.8	.0	4.5	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.2	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.3	.0		.3	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
1<2	4-10	.0	.2	.0	.0	.0	.0	.0	.2	.0		.3	
	11-21	.1	.0	.0	.0	.0	.0	.1	.3	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.2	.0	.0	.0	.0	.3	.5	.0	.0	1.0	
	0-3	.0	.0	.3	.0	.0	.2	.0	.0	.0	.2	.7	
2<5	4-10	.2	.0	.0	.0	.0	.0	.0	.0	.0		.2	
	11-21	.2	.0	.0	.0	.0	.0	.1	.6	.0		.9	
	22+	.0	.0	.0	.0	.0	.0	.3	.1	.0		.3	
	TOT %	.3	.0	.3	.0	.0	.2	.3	.7	.0	.2	2.1	
	0-3	.3	.0	.2	.2	.1	.4	.3	.4	.0	.3	2.3	
5<10	4-10	1.5	.5	.1	.3	.3	.4	1.4	2.6	.0		7.3	
	11-21	.2	.1	.1	.0	.0	.0	.6	3.9	.0		4.9	
	22+	.0	.0	.0	.0	.0	.0	.3	.3	.0		.5	
	TOT %	2.2	.6	.3	.5	.4	.9	2.5	7.1	.0	.3	14.9	
	0-3	2.4	1.9	1.6	2.3	2.3	1.6	1.6	4.7	.0	8.3	26.7	
10+	4-10	5.4	2.0	2.4	3.2	2.0	3.4	7.1	17.0	.0		42.6	
	11-21	.7	.0	.0	.0	.0	.2	1.3	8.2	.0		10.4	
	22+	.0	.0	.0	.0	.0	.0	.1	1.6	.0		1.7	
	TOT %	8.5	3.9	4.0	5.5	4.3	5.2	10.1	31.5	.0	8.3	81.5	
	TOT OBS												577
	TOT PCT	11.1	4.7	4.7	6.0	4.8	6.3	13.2	40.4	.0	8.8	100.0	

JANUARY

PERIOD: (PRIMARY) 1889-1967
(OVER-ALL) 1855-1967

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	.0	12.5	12.5	.0	.0	.0	6.3	.0	31.3	68.8	16
06E09	.0	.0	.0	13.3	6.7	6.7	.0	6.7	.0	.0	33.3	66.7	15
12E15	.0	.0	12.5	.0	12.5	.0	.0	.0	.0	.0	25.0	75.0	8
18E21	.0	.0	.0	12.5	.0	.0	.0	.0	.0	.0	12.5	87.5	8
TOT	0	0	1	5	4	1	0	1	1	0	13	34	47
PCT	.0	.0	2.1	10.6	8.5	2.1	.0	2.1	2.1	.0	27.7	72.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.0	.0	1.0	3.0	14.1	81.8	99
06E09	.0	.0	.5	.0	12.0	87.4	191
12E15	1.0	.0	.0	1.0	16.7	81.3	96
18E21	1.0	.0	2.1	4.2	17.7	75.0	192
TOT	3	0	6	12	87	470	578
PCT	.5	.0	1.0	2.1	15.1	81.3	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	.0	16.7	25.0	58.3	12
06E09	.0	.0	16.7	25.0	58.3	12
12E15	.0	12.5	12.5	12.5	75.0	8
18E21	.0	.0	20.0	.0	80.0	5
TOT	0	1	6	7	2,	37
PCT	.0	2.7	16.2	18.9	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
85/89	.0	.0	.0	.0	3.0	.0	.0	.0	1	3.0
80/84	.0	.0	.0	.0	3.0	21.2	51.5	3.0	26	78.8
75/79	.0	.0	.0	.0	.0	.0	6.1	12.1	6	18.2
TOTAL	0	0	0	0	2	7	19	5	33	100.0
PCT	.0	.0	.0	.0	6.1	21.2	57.6	15.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	.0	.0	.0	3.0	.0	.0
	6.8	3.0	.0	6.1	2.3	9.8	4.5	40.2	.0	6.1
	.0	.0	3.0	.0	.0	.0	6.1	6.1	.0	3.0
	6.8	3.0	3.0	6.1	2.3	9.8	10.6	49.2	.0	9.1

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	92	87	85	81	76	74	73	80.7	512
06E09	92	89	87	83	78	76	72	82.6	981
12E15	89	87	85	82	77	75	73	81.5	490
18E21	88	86	84	80	76	74	73	80.2	985
TOT	92	88	86	81	77	74	72	81.3	2968

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIJITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	.0	23.1	61.5	15.4	84	13
06E09	.0	.0	.0	50.4	54.5	9.1	83	11
12E15	.0	.0	33.3	16.7	33.3	16.7	78	6
18E21	.0	.0	.0	.0	75.0	25.0	86	4
TOT	0	0	2	8	19	5	83	34

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PERIOD: (PRIMARY) 1889-1967
(OVER-ALL: 1855-1967

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TABLE 17

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

AIR-SEA TMP DIF	73 75	77 80	81 84	85 88	TOT	W FOG	WO FOG
7/8	.0	.0	1.2	.0	1	.0	1.2
4	.0	.0	1.2	.0	1	.0	1.2
2	.0	.0	3.7	1.2	4	.0	4.9
1	.0	.0	2.4	1.2	3	.0	3.7
0	1.2	1.2	9.8	1.2	11	.0	13.4
-1	.0	.0	18.3	.0	15	.0	18.3
-2	.0	4.9	14.6	.0	16	.0	19.5
-3	.0	7.3	7.3	.0	12	.0	14.6
-4	1.2	6.1	6.1	.0	11	.0	13.4
-5	1.2	3.7	1.2	.0	5	.0	6.1
-6	.0	1.2	.0	.0	1	.0	1.2
-7/-8	1.2	1.2	.0	.0	2	.0	2.4
TOTAL	4	21	56	3	82	0	82
PCT	4.9	25.6	65.9	3.7	100.0		100.0

PERIOD: (OVER-ALL) 1963-1967

TABLE 18

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

N

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

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	12.5	.0	.0	.0	.0	.0	12.5
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	12.5	.0	.0	.0	.0	.0	12.5

E

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

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.1	.0	.0	.0	.0	3.1
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.1	.0	.0	.0	.0	3.1

PERIOD: (OVER-ALL) 1963-1967 JANUARY AREA 0001 SOUTHEAST SUMATRA

TABLE 18 (CONT) 3.7S 101.7E

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	9.4	.0	.0	.0	.0	9.4
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	9.4	.0	.0	.0	.0	9.4

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	12.5	.0	.0	.0	12.5
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	12.5	.0	.0	.0	12.5

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	12.5	.0	.0	12.5
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	12.5	.0	.0	12.5

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	25.0	.0	.0	.0	.0	25.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	12.5	.0	.0	.0	12.5	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	25.0	12.5	.0	.0	.0	37.5	87.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	12.5	12.5	.0	.0	.0	.0	25.0	
1-2	12.5	25.0	12.5	.0	.0	.0	50.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	12.5	.0	.0	.0	12.5	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	12.5	.0	.0	12.5	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	25.0	37.5	25.0	12.5	.0	.0	100.0	8

PERIOD: (OVER-ALL) 1949-1967

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	21.6	8.1	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	3
6-7	.0	13.5	10.8	8.1	5.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	4
8-9	.0	.0	2.7	5.4	5.4	2.7	.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	7
10-11	.0	.0	5.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	3
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	.0	2.7	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	3
TOTAL	0	14	11	6	4	1	0	1	0	0	0	0	0	0	0	0	0	0	0	37	4
PCT	.0	37.8	29.7	16.2	10.8	2.7	.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1890-1973
(OVER-ALL) 1855-1973

AREA CODE SOUTHEAST SUMATRA
3.7S 101.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	22.2	.0	.0	.0		.0	77.8
NE	57.1	.0	.0	.0	.0	.0	.0	57.1	.0	28.6	.0	.0	.0		.0	14.3
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	33.3	.0	.0	.0	.0	.0	.0	33.3	33.3	.0	.0	.0	.0		.0	33.3
W	.0	6.9	.0	.0	.0	.0	.0	6.9	6.9	.0	.0	.0	.0		.0	86.2
NW	17.2	3.4	.0	.0	.0	.0	.0	20.7	13.3	.0	.0	.0	.0		.0	65.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	12.9	3.2	.0	.0	.0	.0	.0	16.1	9.7	3.2	.0	.0	.0		.0	71.0
TOT OBS:	62															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	12.5	.0	.0	.0	.0	.0	.0	12.5	12.5	.0	.0	.0	.0		.0	75.0
06&09	18.2	.0	.0	.0	.0	.0	.0	18.2	18.2	.0	.0	.0	.0		.0	63.6
12&15	.0	7.1	.0	.0	.0	.0	.0	7.1	.0	7.1	.0	.0	.0		.0	85.7
18&21	18.2	9.1	.0	.0	.0	.0	.0	27.3	.0	9.1	.0	.0	.0		.0	63.6
TOT PCT	12.7	3.2	.0	.0	.0	.0	.0	15.9	9.5	3.2	.0	.0	.0		.0	71.4
TOT OBS:	63															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.8	6.3	2.2	.2	*	.0		10.5	8.1	17.6	.0	7.2	4.5	8.4	.0	12.5	12.8
NE	1.6	3.9	.4	*	.0	.0		5.9	5.7	9.2	.0	2.8	1.7	3.8	.0	8.2	9.5
E	1.5	2.6	.3	*	.0	.0		4.4	5.5	4.3	.0	2.0	1.1	3.3	.0	6.5	7.3
SE	2.1	4.5	.5	*	.0	.0		7.1	5.8	8.7	.0	8.1	4.2	6.5	.0	7.1	8.0
S	2.0	4.7	.3	.0	.0	.0		6.9	5.4	3.4	.0	7.4	11.6	8.6	.0	5.5	5.2
SW	2.1	4.5	.6	.1	.0	.0		7.3	5.8	4.1	.0	7.3	13.0	9.0	.0	6.8	3.5
W	2.6	7.8	3.1	.6	.0	.0		14.1	8.3	8.3	.0	13.9	21.8	19.5	100.0	10.8	10.2
NW	3.1	16.6	10.2	3.0	.2	.0		33.1	10.9	31.8	.0	39.6	36.0	29.9	.0	28.5	32.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.8							10.8	.0	10.6	.0	11.6	6.0	11.0	.0	14.1	11.2
TOT OBS	789	1426	489	110	5	0	2799		7.4	472	0	493	451	463	1	453	466
TOT PCT	27.5	50.9	17.8	3.9	.2	.0		100.0		100.0	.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.7	5.0	.6	.1	.0		10.5	8.1	17.6	5.9	8.4	12.6
NE	4.2	1.6	.1	.0	.0		5.9	5.7	9.2	2.3	3.8	8.9
E	3.8	.9	.2	.0	.0		4.4	5.5	6.3	1.6	3.3	6.9
SE	4.6	2.5	*	.0	.0		7.1	5.8	8.7	6.3	6.5	7.6
S	5.0	1.9	*	.0	.0		6.9	5.4	3.4	9.4	8.6	5.3
SW	5.2	1.9	.1	*	.0		7.3	5.8	4.1	10.0	8.9	5.2
W	6.9	5.7	1.4	.1	.0		14.1	8.3	8.3	17.7	19.7	10.5
NW	10.5	15.3	6.3	1.0	.1		33.1	10.9	31.8	37.9	29.8	30.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	10.8						10.8	.0	10.6	8.9	11.0	12.6
TOT OBS	1542	973	247	35	2	2799		7.4	472	944	484	919
TOT PCT	55.1	34.8	8.8	1.3	.1		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1890-1973
(OVER-ALL) 1855-1973

TABLE 4

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PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
				WIND SPEED (KNOTS)						
00&03	10.6	18.6	49.8	16.9	3.8	.2	.0	7.3	100.0	472
06&09	8.9	15.6	52.1	19.5	3.8	.1	.0	7.7	100.0	944
12&15	11.0	16.4	52.4	15.3	4.7	.2	.0	7.4	100.0	464
18&21	12.6	17.1	49.6	16.8	3.7	.2	.0	7.1	100.0	919
TOT	301	468	1426	489	110	5	0	7.4		2799
PCT	10.8	16.7	50.9	17.5	3.9	.2	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	1.3	6.3		7.6
NE	.0	.0	.0	3.6		8.0
E	.0	.0	.0	.0		.0
SE	1.8	.4	.0	1.8		4.8
S	.0	1.3	.0	.0		4.0
SW	.0	.0	1.8	3.6		7.6
W	.0	3.1	8.9	12.1		6.7
NW	.0	4.0	21.9	22.8		7.1
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	5.4	.0		6.3
TOT OBS	1	5	22	28	56	6.9
TOT PCT	1.8	8.9	39.3	50.0	100.0	

TABLE 6

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

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.0	.0	3.1	1.8	.0	.0	1.3	.0	1.3	
.0	.0	1.8	.0	1.8	.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	.0	.0	4.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	
.0	.0	.0	.0	1.8	.0	.0	.0	.0	.0	3.6	
.0	1.8	1.8	1.3	4.9	.0	.0	.0	.0	.0	14.3	
.0	.0	.0	9.4	9.8	.0	1.8	3.6	.4	.0	23.7	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4	
0	1	2	6	12	1	1	2	1	0	30	56
.0	1.8	3.6	10.7	21.4	1.8	1.8	3.6	1.8	.0	53.6	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) ≥ OR >10	≥ OR >5	≥ OR >2	≥ OR >1	≥ OR >1/2	≥ OR >1/4	≥ OR >50YD	≥ OR >0
≥ OR >6500	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
≥ OR >5000	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
≥ OR >3500	5.4	7.1	7.1	7.1	7.1	7.1	7.1	7.1
≥ OR >2000	7.1	8.9	8.9	8.9	8.9	8.9	8.9	8.9
≥ OR >1000	16.1	25.0	30.4	30.4	30.4	30.4	30.4	30.4
≥ OR >600	19.6	33.9	41.1	41.1	41.1	41.1	41.1	41.1
≥ OR >300	21.4	37.5	44.6	44.6	44.6	44.6	44.6	44.6
≥ OR >150	21.4	37.5	46.4	46.4	46.4	46.4	46.4	46.4
≥ OR > 0	21.4	37.5	46.4	46.4	46.4	46.4	46.4	46.4
TOTAL	12	21	26	26	26	26	26	26

TOTAL NUMBER OF OBS: 56 PCT FREQ NH <5/8: 53.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
.0	5.3	21.1	12.3	14.0	7.0	14.0	5.3	21.1	.0	57

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PERIOD: (PRIMARY) 1890-1973
(OVER-ALL) 1855-1973

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	1.6	4.8	.0	.0	6.5	
2<5	NO PCP	.0	.0	.0	.0	.0	.0	1.6	1.6	.0	.0	3.2	
	TOT %	.0	.0	.0	.0	.0	.0	3.2	6.5	.0	.0	9.7	
	PCP	.0	.0	.0	.0	.0	1.6	.0	4.8	.0	.0	6.5	
5<10	NO PCP	1.6	1.6	.0	.0	.0	.0	6.0	5.2	.0	.0	14.5	
	TOT %	1.6	1.6	.0	.0	.0	1.6	6.0	10.1	.0	.0	21.0	
	PCP	.0	3.2	.0	.0	.0	.0	.0	.0	.0	.0	3.2	
10+	NO PCP	5.6	.8	.8	3.6	1.2	3.2	14.1	30.2	.0	6.5	66.1	
	TOT %	5.6	4.0	.8	3.6	1.2	3.2	14.1	30.2	.0	6.5	69.4	
	TOT OBS												62
	TOT PCT	7.3	5.6	.8	3.6	1.2	4.8	23.4	46.8	.0	6.5	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.1	.1	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.2	.0	.0	.0	.1	.1	.4	.2	.0		1.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.0	.0	.0	.1	.1	.4	.2	.0	.0	1.0	
	0-3	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.4	
2<5	4-10	.1	.4	.4	.1	.0	.0	.3	.7	.0		1.9	
	11-21	.0	.0	.0	.0	.0	.0	.4	.2	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.2	.4	.0		.6	
	TOT %	.3	.4	.4	.1	.2	.0	.9	1.3	.0	.0	3.5	
	0-3	.2	.4	.1	.2	.1	.6	.6	.0	.0	.6	2.7	
5<10	4-10	1.6	.4	.5	.3	.9	.4	1.9	1.6	.0		7.5	
	11-21	.4	.0	.0	.0	.0	.1	.4	.9	.0		1.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.4	.0		.4	
	TOT %	2.2	.8	.6	.5	1.0	1.1	2.8	2.8	.0	.6	12.4	
	0-3	3.1	2.9	2.0	2.3	1.9	1.7	2.4	2.9	.0	9.3	28.6	
10+	4-10	6.3	4.3	1.7	3.1	5.0	4.2	6.2	14.0	.0		45.0	
	11-21	1.0	.0	.0	.0	.0	.0	2.2	6.3	.0		9.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	10.4	7.2	3.8	5.5	6.9	6.0	10.8	23.3	.0	9.3	83.0	
	TOT OBS												516
	TOT PCT	13.1	8.4	4.7	6.1	8.3	7.1	14.9	27.6	.0	9.8	100.0	

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PERIOD: (PRIMARY) 1890-1973
(OVER-ALL) 1855-1973

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	6.3	6.3	25.0	.0	.0	.0	6.3	.0	43.8	56.3	16
06E09	.0	.0	5.0	15.0	15.0	.0	.0	5.0	.0	.0	40.0	60.0	20
12E15	.0	.0	.0	16.7	16.7	.0	.0	8.3	.0	.0	41.7	58.3	12
18E21	.0	12.5	.0	.0	37.5	12.5	12.5	.0	.0	.0	75.0	25.0	8
TOT	0	1	2	6	12	1	1	2	1	0	26	30	56
PCT	.0	1.8	3.6	10.7	21.4	1.8	1.8	3.6	1.8	.0	46.4	53.6	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
00E03	.0	.0	.0	3.3	12.0	84.8	92
06E09	.0	.0	.6	1.8	6.6	91.0	167
12E15	.0	.0	3.2	3.2	15.8	77.9	95
18E21	.6	.0	.6	5.5	17.0	76.4	165
TOT	1	0	5	18	65	430	519
PCT	.2	.0	1.0	3.5	12.5	82.9	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	6.3	12.5	31.3	56.3	16
06E09	.0	5.0	20.0	20.0	60.0	20
12E15	.0	.0	33.3	8.3	58.3	12
18E21	.0	12.5	25.0	50.0	25.0	8
TOT	0	3	12	14	30	56
PCT	.0	5.4	21.4	25.0	53.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	3.6	5.6	.0	.0	4	11.1
80/84	.0	.0	.0	.0	.0	22.2	50.0	5.6	28	77.8
75/79	.0	.0	.0	.0	.0	2.8	2.8	5.6	4	11.1
TOTAL	0	0	0	0	2	11	19	4	36	100.0
PCT	.0	.0	.0	.0	5.6	30.6	52.8	11.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	2.8	.0	.0	2.8	.0	.0	4.9	.7	.0	.0
	6.9	.0	.0	13.5	2.1	5.6	20.8	33.3	.0	5.6
	.0	5.6	.0	.0	.0	.0	2.8	2.8	.0	.0
	9.7	5.6	.0	6.3	2.1	5.6	28.5	36.8	.0	5.6

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	88	86	85	81	76	74	72	80.9	461
06E09	93	90	87	83	78	76	74	83.0	914
12E15	89	87	85	82	78	75	73	81.9	453
18E21	89	86	84	81	76	74	72	80.5	901
TOT	93	88	86	82	77	75	72	81.6	2729

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	.0	45.5	45.5	9.1	81	11
06E09	.0	.0	16.7	16.7	41.7	25.0	81	12
12E15	.0	.0	.0	33.3	66.7	.0	80	6
18E21	.0	.0	.0	28.6	71.4	.0	81	7
TOT	0	0	2	11	19	4	80	36

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(OVER-ALL) 1855-1973

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TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
6	.0	.0	.0	.0	1.9	1	.0	1.9
3	.0	.0	1.9	.0	.0	1	.0	1.9
2	.0	.0	5.8	1.9	.0	4	.0	7.7
1	.0	1.9	1.9	7.7	.0	6	.0	11.5
0	.0	.0	15.4	.0	.0	8	.0	15.4
-1	.0	3.8	13.5	.0	.0	9	.0	17.3
-2	1.9	13.5	9.6	.0	.0	13	.0	25.0
-3	.0	3.8	3.8	.0	.0	4	.0	7.7
-4	.0	5.8	.0	.0	.0	3	.0	5.8
-5	1.9	1.9	.0	.0	.0	2	.0	3.8
-6	.0	1.9	.0	.0	.0	1	.0	1.9
TOTAL	2	17	27	5	1	52	0	52
PCT	3.8	32.7	51.9	9.6	1.9	100.0		100.0

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

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

N

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

NE

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

E

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

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	25.0	.0	.0	.0	.0	25.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	25.0	.0	.0	.0	.0	25.0

PERIOD: (OVER-ALL) 1963-1979

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TABLE 18 (CONT)

AREA 0001 SOUTHEAST SUMATRA
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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	15.0	.0	.0	.0	.0	15.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	15.0	.0	.0	.0	.0	15.0

SW

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

W

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

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	20.0	.0	.0	.0	20.0	
7	.0	20.0	.0	.0	.0	.0	20.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	20.0	.0	.0	.0	40.0	80.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	20.0	.0	.0	.0	.0	.0	20.0	
1-2	.0	40.0	.0	.0	.0	.0	40.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	20.0	.0	.0	.0	20.0	
7	.0	20.0	.0	.0	.0	.0	20.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	20.0	60.0	20.0	.0	.0	.0	100.0	5

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	2.0	9.8	11.8	3.9	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	3
6-7	.0	11.8	19.6	11.8	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	4
8-9	.0	.0	5.9	2.0	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	5
10-11	.0	.0	2.0	.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	0	
>13	.0	.0	.0	.0	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	11
INDET	.0	.0	3.9	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	4
TOTAL	1	11	22	10	5	0	0	1	0	0	0	0	0	0	0	0	0	0	0	51	4
PCT	2.0	21.6	43.1	19.6	11.8	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1885-1965
(OVER-ALL) 1859-1965

AREA 0001 SOUTHEAST SUMATRA
3.7S 101.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA						
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	8.2	.0	.0	.0	.0	.0	.0	8.3	.0	.0	.0	.0	.0	.0	.0	91.7
NE	10.0	.0	.0	.0	.0	.0	.0	10.0	.0	.0	.0	.0	.0	.0	.0	90.0
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	1.5	.0	.0	.0	.0	.0	98.5
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	80.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	11.8	11.8	.0	.0	.0	.0	.0	76.5
W	.0	.0	.0	.0	.0	.0	.0	.0	6.0	6.0	.0	.0	.0	.0	.0	88.1
NW	9.6	4.8	.0	.0	.0	.0	.0	14.5	9.6	4.8	.0	.0	.0	.0	.0	71.1
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	20.0	.0	.0	.0	.0	.0	80.0
TOT PCT	3.3	1.1	.0	.0	.0	.0	.0	4.4	4.4	6.7	.0	.0	.0	.0	.0	84.4
TOT OBS:	90															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA						
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00|03	10.0	.0	.0	.0	.0	.0	.0	10.0	5.0	.0	.0	.0	.0	.0	.0	95.0
06|09	.0	3.4	.0	.0	.0	.0	.0	3.4	.0	.0	.0	.0	.0	.0	.0	96.6
12|15	.0	.0	.0	.0	.0	.0	.0	.0	5.6	.0	.0	.0	.0	.0	.0	94.4
18|21	3.8	3.8	.0	.0	.0	.0	.0	7.7	7.7	23.1	.0	.0	.0	.0	.0	61.5
TOT PCT	3.2	2.2	.0	.0	.0	.0	.0	5.4	4.3	6.5	.0	.0	.0	.0	.0	83.9
TOT OBS:	93															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.8	7.1	1.7	.2	.0	.0		10.8	7.4	16.8	100.0	11.1	3.6	6.7	20.0	12.9	13.4
NE	1.6	3.9	.4	*	.0	.0		6.0	5.8	8.7	.0	2.4	1.4	5.1	.0	10.0	9.0
E	1.4	4.4	.5	*	.0	.0		6.2	6.1	9.1	.0	4.0	2.7	4.5	20.0	7.8	9.2
SE	2.1	7.2	1.2	*	.0	.0		10.6	6.6	10.8	.0	11.5	8.8	11.1	10.0	10.4	10.7
S	1.9	4.1	.7	*	.0	.0		6.6	6.0	3.1	.0	6.1	10.7	7.7	30.0	6.6	5.7
SW	1.6	4.0	.7	.1	.0	.0		6.4	6.4	3.8	.0	5.8	12.0	7.9	.0	5.2	4.1
W	1.9	7.5	2.0	.4	*	.0		11.8	8.1	8.2	.0	9.9	20.2	15.8	.0	9.3	7.9
NW	3.1	17.3	9.8	1.4	*	.0		31.5	9.7	29.8	.0	37.5	33.1	30.5	20.0	27.4	30.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.9							9.9	.0	9.7	.0	11.8	7.5	10.7	.0	10.6	9.4
TOT OBS	811	1778	547	70	2	0	3208		7.0	537	1	553	534	516	5	521	541
TOT PCT	25.3	55.4	17.1	2.2	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	6.0	4.2	.6	*	.0		10.8	7.4	16.9	7.4	6.1	13.1
NE	4.2	1.8	.1	.0	.0		6.0	5.8	8.6	1.9	5.1	9.5
E	4.1	2.0	.1	.0	.0		6.2	6.1	9.1	3.4	4.6	8.5
SE	6.5	3.8	.3	.0	.0		10.6	6.6	10.8	10.2	11.1	10.6
S	4.5	2.0	.2	.0	.0		6.6	6.0	3.1	8.3	7.9	6.1
SW	4.3	1.8	.2	*	.0		6.4	6.4	3.8	8.8	7.9	4.6
W	5.7	5.1	.9	.1	.0		11.8	8.1	8.2	14.9	15.6	8.6
NW	11.1	15.8	4.3	.3	.0		31.5	9.7	29.8	33.4	30.4	29.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	9.9						9.9	.0	9.7	9.7	10.6	10.0
TOT OBS	1803	1174	214	17	0	3208		7.0	538	1087	521	1062
TOT PCT	56.2	36.6	6.7	.5	.0		100.0		100.0	100.0	100.0	100.0

MARCH

PERIOD: (PRIMARY) 1889-1965
(OVER-ALL) 1859-1965

AREA 0001 SOUTHEAST SUMATRA
3.7S 101.6E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	9.7	17.1	53.5	17.5	2.2	.0	.0	6.9	100.0	538
06&09	9.7	16.4	54.6	17.4	1.9	.0	.0	7.0	100.0	1087
12&15	10.6	14.0	55.5	17.5	2.3	.2	.0	7.2	100.0	521
18&21	10.0	14.1	57.2	16.3	2.4	.1	.0	7.1	100.0	1062
TOT	318	493	1778	547	70	2	0	7.0		3208
PCT	9.9	15.4	55.4	17.1	2.2	.1	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	7.9	.0		7.0
NE	.0	.0	.0	2.6		8.0
E	.0	2.0	.0	.0		4.0
SE	5.3	5.3	13.2	.0		4.4
S	.0	.0	5.3	.0		6.0
SW	.0	5.3	.0	5.3		6.0
W	.0	.0	4.6	2.6		6.0
NW	.0	.0	13.8	18.4		7.2
VAR	.0	.0	.0	.0		.0
CALM	.0	5.3	5.3	.0		5.0
TOT OBS	2	6	19	11	38	6.0
TOT PCT	5.3	15.8	50.0	28.9	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.9	
NE	.0	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	
SE	.0	.0	.0	.0	2.6	.0	.0	.0	.0	.0	19.1	
S	.0	.0	.0	.0	2.6	.0	.0	.0	.0	.0	2.6	
SW	.0	.0	2.6	.0	2.6	.0	.0	.0	.0	.0	5.3	
W	.0	.0	.0	.0	2.6	.0	.0	.0	.0	.0	4.6	
NW	.0	.0	2.6	5.3	10.5	5.3	.0	2.6	.0	.0	5.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	2.6	.0	.0	.0	.0	.0	7.9	
TOT OBS	0	0	2	2	10	2	0	1	0	0	21	38
TOT PCT	.0	.0	5.3	5.3	26.3	5.3	.0	2.6	.0	.0	55.3	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >500YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
* OR >3500	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
* OR >2000	2.6	7.9	7.9	7.9	7.9	7.9	7.9	7.9
* OR >1000	23.7	34.2	34.2	34.2	34.2	34.2	34.2	34.2
* OR >600	26.3	36.8	39.5	39.5	39.5	39.5	39.5	39.5
* OR >300	26.3	36.8	44.7	44.7	44.7	44.7	44.7	44.7
* OR >150	26.3	36.8	44.7	44.7	44.7	44.7	44.7	44.7
* OR > 0	26.3	36.8	44.7	44.7	44.7	44.7	44.7	44.7
TOTAL	10	14	17	17	17	17	17	17

TOTAL NUMBER OF OBS: 38 PCT FREQ NH <5/8: 55.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
2.3	2.3	20.5	15.9	20.5	6.8	11.4	2.3	18.2	.0	44

MARCH

PERIOD: (PRIMARY) 1889-1965
(OVER-ALL) 1859-1965

AREA 0001 SOUTHEAST SUMATRA
3.7S 101.6E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	1.1	
	NO PCP	.0	.0	.0	.3	1.9	1.1	.0	1.1	.0	.0	4.4	
	TOT %	.0	.0	.0	.3	1.9	1.1	.0	2.2	.0	.0	5.6	
5<10	PCP	.6	.6	.0	.0	.0	.0	.0	1.1	.0	.0	2.2	
	NO PCP	.6	1.7	.6	6.1	5.0	3.3	7.2	8.9	.0	.0	33.3	
	TOT %	1.1	2.2	.6	6.1	5.0	3.9	7.2	10.0	.0	.0	35.6	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	1.1	
	NO PCP	5.6	3.3	1.9	12.5	2.8	5.0	11.4	9.7	.0	5.6	57.8	
	TOT %	5.6	3.3	1.9	12.5	2.8	5.0	11.4	10.8	.0	5.6	58.9	
	TOT OBS												90
	TOT PCT	6.7	5.6	2.5	18.9	9.7	9.4	18.6	23.1	.0	5.6	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.2	.0	.0	.0	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.3	.0	.0	.0	.0	.2	.2	.4	.0		1.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.0	.0	.0	.0	.2	.2	.4	.0	.0	1.0	
	0-3	.0	.0	.0	.0	.2	.0	.1	.1	.0	.2	.5	
2<5	4-10	.7	.3	.2	.0	.0	.2	.4	1.0	.0		2.8	
	11-21	.0	.0	.0	*	.1	.0	.1	.4	.0		.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.7	.3	.2	*	.3	.2	.6	1.6	.0	.2	4.0	
	0-3	.3	.1	.1	.1	.2	.1	.2	1.0	.0	1.0	3.1	
5<10	4-10	1.1	.3	.2	1.1	.8	.8	1.3	2.8	.0		8.4	
	11-21	.0	.2	.0	.0	.0	.0	.2	.7	.0		1.0	
	22+	.0	.0	.0	.0	.0	.0	.2	.0	.0		.2	
	TOT %	1.5	.6	.3	1.2	.9	.9	1.8	4.5	.0	1.0	12.8	
	0-3	2.2	1.6	2.0	1.4	1.6	1.6	2.1	3.1	.0	6.7	22.2	
10+	4-10	7.2	4.1	2.7	4.5	2.0	3.4	7.3	18.8	.0		50.0	
	11-21	1.6	.0	.0	.2	.0	.0	.8	5.8	.0		8.4	
	22+	.4	.0	.0	.0	.0	.0	.3	.7	.0		1.4	
	TOT %	11.5	5.7	4.7	6.1	3.6	4.9	10.5	28.4	.0	6.7	82.1	
	TOT OBS												580
	TOT PCT	14.1	8.6	5.2	7.3	4.9	6.1	13.1	34.9	.0	7.9	100.0	

MARCH

PERIOD: (PRIMARY) 1889-1965
(OVER-ALL) 1859-1965

AREA 0001 SOUTHEAST SUMATRA
3.7S 101.6E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	6.7	6.7	20.0	6.7	.0	6.7	.0	.0	46.7	53.3	15
06E09	.0	.0	.0	.0	9.1	.0	.0	.0	.0	.0	9.1	90.9	11
12E15	.0	.0	.0	.0	44.4	11.1	.0	.0	.0	.0	55.6	44.4	9
18E21	.0	.0	11.1	11.1	22.2	.0	.0	.0	.0	.0	44.4	55.6	9
TOT	0	0	2	2	10	2	0	1	0	0	17	27	44
PCT	.0	.0	4.5	4.5	22.7	4.5	.0	2.3	.0	.0	38.6	61.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	1.0	.0	1.0	6.8	10.7	80.6	103
06E09	.0	.0	1.0	.5	8.9	89.5	191
12E15	.0	.0	.0	3.2	12.9	83.9	93
18E21	.0	.0	1.5	6.1	18.4	74.0	196
TOT	1	0	6	23	76	471	583
PCT	.2	.0	1.0	3.9	13.0	81.8	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<000 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	7.7	15.4	38.5	46.2	13
06E09	.0	.0	.0	11.1	88.9	9
12E15	.0	.0	11.1	55.6	33.3	9
18E21	.0	14.3	28.6	28.6	42.9	7
TOT	0	2	5	13	20	38
PCT	.0	5.3	13.2	34.2	52.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.0	3.3	3.3	.0	2	6.7
80/84	.0	.0	.0	.0	.0	20.0	46.7	10.0	23	76.7
75/79	.0	.0	.0	.0	.0	.0	13.3	3.3	5	16.7
TOTAL	0	0	0	0	0	7	19	4	30	100.0
PCT	.0	.0	.0	.0	.0	23.3	63.3	13.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	3.3	1.7	1.7	.0	.0	.0	.0
	.0	3.3	.0	21.7	7.5	11.7	16.7	13.3	.0	.0
	1.7	1.7	.0	.0	.0	3.3	3.3	6.7	.0	.0
	1.7	5.0	2.5	25.0	9.2	16.7	20.0	20.0	.0	.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	89	88	85	81	77	74	73	81.2	513
06E09	92	90	88	83	79	76	73	83.5	1040
12E15	90	87	86	82	78	75	70	82.3	504
18E21	87	86	84	81	77	75	72	80.8	1030
TOT	92	88	86	82	77	75	70	82.0	3087

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	.0	10.0	80.0	10.0	86	10
06E09	.0	.0	.0	33.3	55.6	11.1	81	9
12E15	.0	.0	.0	40.0	20.0	40.0	83	5
18E21	.0	.0	.0	25.0	75.0	.0	84	8
TOT	0	0	0	8	20	4	83	32

PERIOD: (PRIMARY) 1889-1965
(OVER-ALL) 1859-1965

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TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	TOT	N FOG	NO FOG
5	.0	.0	1.1	1.1	2	.0	2.2
3	.0	.0	.0	2.2	2	.0	2.2
2	.0	.0	.0	3.4	3	.0	3.4
1	.0	.0	2.2	.0	2	.0	2.2
0	.0	.0	23.6	2.2	23	.0	25.8
-1	.0	.0	12.4	1.1	12	.0	13.5
-2	.0	3.4	24.7	.0	25	.0	28.1
-3	.0	1.1	1.1	.0	2	.0	2.2
-4	.0	3.4	7.9	.0	10	.0	11.2
-5	.0	5.6	.0	.0	5	.0	5.6
-6	1.1	2.2	.0	.0	3	.0	3.4
TOTAL	1		65			0	89
		14		9	89		
PCT	1.1	15.7	73.0	10.1	100.0		100.0

PERIOD: (OVER-ALL) 1963-1965

TABLE 18

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

N

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

NE

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

E

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

SE

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

PERIOD: (OVER-ALL) 1963-1965

MARCH

AREA 0001 SOUTHEAST SUMAT
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TABLE 18 (CONT)

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

S

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

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	33.3	.0	.0	.0	.0	33.3
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	33.3	.0	.0	.0	.0	33.3

W

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

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	33.3	.0	.0	.0	33.3	
5-6	.0	.0	33.3	.0	.0	.0	33.3	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	66.7	.0	.0	.0	66.7	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	33.3	.0	.0	.0	.0	33.3	
3-4	.0	.0	33.3	.0	.0	.0	33.3	
5-6	.0	.0	33.3	.0	.0	.0	33.3	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	33.3	66.7	.0	.0	.0	100.0	3

PERIOD: (OVER-ALL) 1949-1965

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	25.8	16.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	2
6-7	.0	3.2	16.1	3.2	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	4
8-9	.0	.0	.0	6.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
10-11	.0	.0	3.2	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	9.7	.0	3.2	6.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	2
TOTAL	3	9	12	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	3
PCT	9.7	29.0	38.7	19.4	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1893-1967
(OVER-ALL) 1855-1967

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NE	16.0	16.0	.0	.0	.0	.0	.0	32.0	.0	.0	.0	.0	.0		.0	68.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	15.7	.0	.0	.0		.0	84.3
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.1	.0	.0	.0		.0	93.9
S	.0	11.1	.0	.0	.0	.0	.0	11.1	.0	.0	.0	.0	.0		.0	88.9
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
W	17.4	8.7	.0	.0	.0	.0	.0	26.1	.0	.0	.0	.0	.0		.0	73.9
NW	.0	12.1	24.2	.0	.0	.0	.0	36.4	.0	.0	.0	.0	.0		.0	63.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	3.8	5.1	2.6	.0	.0	.0	.0	11.5	.0	3.8	.0	.0	.0		.0	84.6
TOT OBS:	78															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	11.8	5.9	11.8	.0	.0	.0	.0	29.4	.0	.0	.0	.0	.0		.0	70.6
06&09	3.7	3.7	.0	.0	.0	.0	.0	7.4	.0	.0	.0	.0	.0		.0	92.6
12&15	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.9	.0	.0	.0		.0	94.1
18&21	.0	11.1	.0	.0	.0	.0	.0	11.1	.0	11.1	.0	.0	.0		.0	77.8
TOT PCT	3.8	5.1	2.5	.0	.0	.0	.0	11.4	.0	3.8	.0	.0	.0		.0	84.8
TOT OBS:	79															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.0	7.2	1.9	.1	.0	.0		11.2	7.3	15.6	.0	10.3	5.2	7.0	7.1	13.2	16.0
NE	1.4	3.9	.2	.1	.0	.0		5.6	5.7	10.2	.0	3.4	.7	3.8	.0	7.5	8.3
E	1.8	5.0	.4	*	.0	.0		7.1	5.6	11.9	.0	5.9	1.6	5.1	14.3	8.1	10.5
SE	2.4	10.5	1.9	*	.0	.0		14.9	6.9	18.7	100.0	14.9	10.5	13.9	42.9	15.3	15.6
S	2.6	5.5	.9	.0	.0	.0		8.9	5.9	3.5	.0	7.1	16.2	11.2	.0	10.4	4.9
SW	1.8	4.1	.3	*	.0	.0		6.2	5.6	2.1	.0	5.5	13.0	8.1	14.3	5.5	2.7
W	1.9	7.1	1.7	.1	*	.0		10.8	7.3	6.1	.0	10.2	18.2	14.3	14.3	8.8	6.5
NW	3.4	14.2	5.7	.7	*	.0		24.1	8.5	21.8	.0	27.6	28.2	29.1	7.1	19.1	22.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	11.3							11.3	.0	9.9	.0	13.0	6.4	11.5	.0	12.2	12.8
TOT OBS	876	1755	396	31	2	0	3060		6.3	494	1	519	517	514	7	501	507
TOT PCT	28.6	57.4	12.9	1.0	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	6.2	4.2	.7	*	.0		11.2	7.3	15.6	7.8	7.0	14.6
NE	4.0	1.4	.1	*	.0		5.6	5.7	10.2	2.1	3.7	7.9
E	5.1	2.0	*	.0	.0		7.1	5.6	11.9	3.8	5.2	9.3
SE	8.6	5.6	.6	.0	.0		14.9	6.9	18.9	12.7	14.3	15.4
S	6.0	2.7	.2	.0	.0		8.9	5.9	3.5	11.6	11.0	7.7
SW	4.3	1.9	*	.0	.0		6.2	5.6	2.1	9.2	8.2	4.1
W	5.9	4.3	.5	*	*		10.8	7.3	6.1	14.2	14.3	7.6
NW	10.6	11.2	2.1	.1	*		24.1	8.5	21.8	27.9	24.9	20.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	11.3						11.3	.0	9.9	10.7	11.3	12.5
TOT OBS	1902	1019	131	7	1	3060		6.3	495	1036	521	1008
TOT PCT	62.2	33.3	4.3	.2	*		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1893-1967
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	9.9	16.0	61.2	12.7	.2	.0	.0	6.2	100.0	495
06&09	10.7	17.7	57.1	13.4	1.0	.1	.0	6.4	100.0	1036
12&15	11.3	18.8	53.9	14.4	1.5	.0	.0	6.4	100.0	521
18&21	12.5	17.0	57.4	11.8	1.2	.1	.0	6.1	100.0	1008
TOT	345	531	1755	396	31	2	0	6.3		3060
PCT	11.3	17.4	57.4	12.9	1.0	.1	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	1.4	4.7	.0		5.7
NE	.0	.5	2.8	2.8		6.8
E	1.9	3.3	3.8	4.7		5.6
SE	.0	2.4	12.7	3.8		6.5
S	3.3	1.9	5.2	1.9		4.4
SW	.5	.0	2.4	.0		5.1
W	1.4	.0	10.8	7.1		6.7
NW	.5	.0	8.5	2.4		6.7
VAR	.0	.0	.0	.0		.0
CALM	1.9	3.8	1.9	1.9		4.4
TOT OBS	5	7	28	13	53	5.9
TOT PCT	9.4	13.2	52.8	24.5	100.0	

TABLE 6

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

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.0	.0	1.4	.0	1.9	.0	.0	.0	2.8	
.0	.0	.0	.0	1.9	.9	.0	.0	.0	.0	3.3	
.0	.0	.0	.0	1.9	2.8	.0	.0	.0	.0	9.0	
.0	.0	.0	.0	.0	1.9	.5	.0	.0	.0	16.5	
.0	.0	.0	.0	1.9	.0	1.4	.0	.0	.0	9.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	
.0	.0	.0	.0	5.7	3.8	1.4	.0	.0	.0	8.5	
.0	.0	.0	1.9	2.4	.0	2.4	.0	.0	.0	4.7	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.5	
0	0	0	1	8	5	5	0	0	0	34	55
.0	.0	.0	1.9	15.1	9.4	9.4	.0	.0	.0	64.2	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >30YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3
* OR >2000	11.1	16.7	15.7	18.5	18.5	18.5	18.5	18.5
* OR >1000	20.4	29.6	29.6	33.3	33.3	33.3	33.3	33.3
* OR >600	20.4	31.5	31.5	35.2	35.2	35.2	35.2	35.2
* OR >300	20.4	31.5	31.5	35.2	35.2	35.2	35.2	35.2
* OR >150	20.4	31.5	31.5	35.2	35.2	35.2	35.2	35.2
* OR > 0	20.4	31.5	31.5	35.2	35.2	35.2	35.2	35.2
TOTAL	11	17	17	19	19	19	19	19

TOTAL NUMBER OF OBS: 54 PCT FREQ NH <5/8: 64.8

TABLE 7A

PERCENTAGE FREQ OF COW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
.0	10.1	25.0	12.5	12.5	7.1	8.9	8.9	8.9	.0	56

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	1.3	.0	1.3	.0	.0	.0	2.6	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	1.3	.0	1.3	.0	.0	.0	2.6	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	PCP	.0	1.3	.0	.0	.0	.0	1.3	2.6	.0	.0	5.1	
	NO PCP	.0	.6	5.8	1.3	3.2	1.9	3.8	.0	.0	.0	16.7	
	TOT %	.0	1.9	5.8	1.3	3.2	1.9	5.1	2.6	.0	.0	21.8	
10+	PCP	.0	1.3	.0	.0	.0	.0	1.3	1.3	.0	.0	3.8	
	NO PCP	6.1	4.8	10.6	19.9	7.1	3.2	7.1	6.7	.0	6.4	71.8	
	TOT %	6.1	6.1	10.6	19.9	7.1	3.2	8.3	8.0	.0	6.4	75.6	
	TOT OBS												78
	TOT PCT	6.1	8.0	16.3	21.2	11.5	5.1	14.7	10.6	.0	6.4	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.1	.0	.0	.0	.0	.0	.0	.1	.0		.2	
	TOT %	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.2	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.1	.1	.0		.2	
	TOT %	.0	.0	.0	.0	.2	.0	.1	.1	.0	.0	.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	.0	.0	.2	.2	.2	.2	.0		.8	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.0	.0	.0	.2	.2	.2	.2	.0	.0	.8	
2<5	0-3	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.1	.4	.1	.1	.0	.0	.2	.0	.0		.8	
	11-21	.1	.0	.0	.0	.0	.0	.0	.4	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.4	.2	.1	.0	.0	.2	.4	.0	.0	1.4	
5<10	0-3	.2	.0	.2	.2	.2	.2	.1	.1	.0	.3	1.5	
	4-10	.3	.4	1.1	.8	.5	.4	.7	1.2	.0		5.3	
	11-21	.2	.0	.0	.0	.0	.2	.5	1.0	.0		1.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.5	.0		.5	
	TOT %	.7	.4	1.2	1.0	.7	.9	1.2	2.7	.0	.3	9.1	
10+	0-3	2.1	2.1	2.0	3.1	1.8	2.6	1.3	2.7	.0	7.1	24.7	
	4-10	5.8	4.5	4.9	10.9	4.8	2.7	5.4	12.8	.0		51.8	
	11-21	1.4	.0	.2	1.9	.4	.2	1.0	6.3	.0		11.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.3	.0		.3	
	TOT %	9.2	6.6	7.1	15.8	7.0	5.5	7.8	22.1	.0	7.1	88.3	
	TOT OBS												647
	TOT PCT	10.2	7.4	8.6	18.9	8.0	6.5	9.4	25.5	.0	7.4	100.0	

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	.0	6.3	12.5	6.3	6.3	.0	.0	.0	31.3	68.8	16
06E09	.0	.0	.0	.0	16.7	16.7	11.1	.0	.0	.0	44.4	55.6	18
12E15	.0	.0	.0	.0	9.1	9.1	9.1	.0	.0	.0	27.3	72.7	11
18E21	.0	.0	.0	.0	18.2	.0	9.1	.0	.0	.0	27.3	72.7	11
TOT	0	0	0	1	8	5	5	0	0	0	19	37	56
PCT	.0	.0	.0	1.8	14.3	8.9	8.9	.0	.0	.0	33.9	66.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.0	.0	2.9	1.9	5.7	89.5	105
06E09	.5	.0	.0	.0	7.2	92.3	209
12E15	.0	.8	.0	1.7	12.7	84.7	118
18E21	.0	.5	.9	2.3	10.6	85.6	216
TOT	1	2	5	9	59	572	648
PCT	.2	.3	.8	1.4	9.1	88.3	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	.0	13.3	20.0	66.7	15
06E09	.0	.0	.0	44.4	55.6	18
12E15	.0	.0	.0	30.0	70.0	10
18E21	.0	.0	9.1	18.2	72.7	11
TOT	0	0	3	16	35	54
PCT	.0	.0	5.6	29.6	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
95/99	.0	.0	.0	.0	.0	2.3	.0	.0	1	2.3
90/94	.0	.0	.0	.0	2.3	.0	.0	.0	1	2.3
85/89	.0	.0	.0	.0	9.1	2.3	.0	.0	5	11.4
80/84	.0	.0	.0	.0	2.3	29.5	45.5	.0	34	77.3
75/79	.0	.0	.0	.0	.0	2.3	2.3	2.3	3	6.8
TOTAL	0	0	0	0	2	19	22	1	44	100.0
PCT	.0	.0	.0	.0	4.5	43.2	50.0	2.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3
1.7	.6	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	4.0	2.8	2.3	2.3	.0	.0	.0	.0
1.7	4.5	10.2	21.0	5.1	.6	21.0	6.3	.0	6.8
.0	2.3	.0	.0	.0	.0	2.3	2.3	.0	.0
3.4	7.4	14.2	23.9	7.4	2.8	23.3	8.5	.0	9.1

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	94	87	86	82	77	75	73	81.6	491
06E09	97	90	88	84	80	77	72	83.9	1015
12E15	92	88	86	83	79	77	74	82.7	512
18E21	90	86	85	81	77	75	72	81.1	992
TOT	97	89	87	82	78	76	72	82.4	3010

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	.0	25.0	66.7	8.3	83	12
06E09	.0	.0	6.7	53.3	40.0	.0	78	15
12E15	.0	.0	10.0	60.0	30.0	.0	78	10
18E21	.0	.0	.0	37.5	62.5	.0	80	8
TOT	0	0	2	20	22	1	80	45

APRIL

PERIOD: (PRIMARY) 1893-1967
(OVER-ALL) 1855-1967

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TABLE 17

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

AIR-SEA THP DIF	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
4	.0	.0	.0	1.4	1	.0	1.4
2	.0	.0	1.4	.0	1	.0	1.4
1	.0	2.8	2.8	.0	4	.0	5.6
0	.0	19.4	2.8	.0	16	.0	22.2
-1	.0	22.2	.0	.0	16	.0	22.2
-2	.0	18.1	.0	.0	13	.0	18.1
-3	2.8	4.2	.0	.0	5	.0	6.9
-4	5.6	13.9	.0	.0	14	.0	19.4
-5	1.4	.0	.0	.0	1	.0	1.4
-6	1.4	.0	.0	.0	1	.0	1.4
TOTAL	8	58	5	1	72	0	72
PCT	11.1	80.6	6.9	1.4	100.0		100.0

PERIOD: (OVER-ALL) 1963-1967

TABLE 18

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

N

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

NE

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

E

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

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	25.0	.0	.0	.0	.0	25.0
3-4	.0	25.0	50.0	.0	.0	.0	75.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	50.0	50.0	.0	.0	.0	100.0

PERIOD: (OVER-ALL) 1963-1967

APRIL

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TABLE 18 (CONT)

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

S

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

SW

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

W

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

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	25.0	.0	.0	.0	.0	25.0	
3-4	.0	25.0	50.0	.0	.0	.0	75.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	50.0	50.0	.0	.0	.0	100.0	8

PERIOD: (OVER-ALL) 1949-1967

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	19.2	9.6	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	3
6-7	.0	11.5	9.6	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	3
8-9	.0	.0	9.6	5.8	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	4
10-11	.0	.0	.0	5.8	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	6
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	1.9	5.8	.0	11.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	4
TOTAL	1	19	15	14	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	3
PCT	1.9	36.5	28.8	26.9	5.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1892-1968
(OVER-ALL) 1857-1968

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	15.4	.0	.0	.0	.0	.0	.0	15.4	.0	.0	.0	.0	.0	.0	.0	84.6
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.5	10.5		78.9
S	.0	.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	.0	100.0
W	14.3	.0	.0	.0	.0	.0	.0	14.3	.0	.0	.0	.0	.0	.0	.0	85.7
NW	12.9	12.9	.0	.0	.0	.0	.0	25.8	.0	.0	.0	.0	.0	.0	.0	74.2
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	100.0
TOT PCT	6.0	2.0	.0	.0	.0	.0	.0	8.0	.0	.0	.0	.0	2.0	2.0		88.0
TOT OBS:	50															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	11.8	.0	.0	.0	.0	.0	.0	11.8	.0	.0	.0	.0	.0	5.9		82.4
06&09	.0	5.6	.0	.0	.0	.0	.0	5.6	.0	.0	.0	.0	5.6	.0		88.9
12&15	10.0	.0	.0	.0	.0	.0	.0	10.0	.0	.0	.0	.0	.0	.0		90.0
18&21	.0	12.5	12.5	.0	.0	.0	.0	25.0	.0	.0	.0	.0	.0	.0		75.0
TOT PCT	5.7	3.8	1.9	.0	.0	.0	.0	11.3	.0	.0	.0	.0	1.9	1.9		84.9
TOT OBS:	53															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.0	5.7	1.5	.1	.0	.0		9.3	7.0	14.8	.0	10.0	3.1	4.3	.0	10.8	12.6
NE	1.6	4.4	.5	.0	.0	.0		6.5	5.7	11.8	.0	3.4	1.3	3.2	.0	8.6	10.6
E	1.6	6.6	1.2	.1	.0	.0		9.5	7.0	13.8	.0	8.8	3.0	5.7	.0	10.4	14.4
SE	3.4	13.1	4.7	.4	.0	.0		21.6	8.0	21.2	.0	23.0	19.7	21.5	.0	23.5	20.8
S	2.3	6.7	1.0	.1	.0	.0		10.1	6.3	5.5	.0	8.9	18.2	14.1	100.0	8.4	5.5
SW	1.4	4.2	.2	.1	.0	.0		5.9	5.9	3.2	.0	4.6	12.0	8.4	.0	4.6	2.8
W	2.4	5.1	1.4	.1	.0	.0		9.0	6.9	4.7	.0	8.6	16.7	13.0	.0	6.6	4.4
NW	2.8	10.0	3.9	.6	.1	.0		17.2	8.4	16.6	.0	18.4	18.6	18.6	.0	14.0	16.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	11.0							11.0	.0	8.3	.0	14.2	6.6	11.2	.0	13.2	12.0
TOT OBS	905	1772	493	46	2	0	3178		6.5	539	0	555	515	526	1	516	526
TOT PCT	28.5	55.8	14.3	1.4	.1	.0		100.0		100.0	.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	5.3	3.6	.5	*	.0		9.3	7.0	14.8	6.7	4.3	11.7
NE	4.5	1.9	.1	.0	.0		6.5	5.7	11.8	2.4	3.2	9.6
E	5.5	3.5	.5	.0	.0		9.5	7.0	13.8	6.4	5.7	12.4
SE	10.5	9.4	1.7	.0	.0		21.6	8.0	21.2	21.4	21.4	22.1
S	6.6	3.2	.3	.0	.0		10.1	6.3	5.5	13.3	14.2	7.0
SW	4.0	1.8	.1	*	.0		5.9	5.9	3.2	8.2	8.4	[illegible]
W	5.1	3.4	.4	*	.0		9.0	6.9	4.7	12.5	[illegible].0	5.5
NW	8.3	6.9	1.8	.2	.0		17.2	8.4	16.6	1[illegible]	18.6	15.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	11.0						11.0	.0	*	10.6	11.2	12.6
TOT OBS	1934	1070	166	8	0	3178		6.5	539	1070	527	1042
TOT PCT	60.9	33.7	5.2	.3	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1892-1968R
(OVER-ALL) 1857-1968

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	8.3	16.5	61.0	13.0	1.1	.0	.0	6.4	100.0	539
06&09	10.6	17.4	56.6	13.8	1.5	.1	.0	6.5	100.0	1070
12&15	11.2	16.1	55.6	15.6	1.3	.2	.0	6.6	100.0	527
18&21	12.6	18.9	52.2	14.7	1.6	.0	.0	6.3	100.0	1042
TOT	348	557	1772	453	46	2	0	6.5		3178
PCT	11.0	17.5	55.8	14.3	1.4	.1	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	8.9	3.2	.0		4.2
NE	.0	.0	3.2	.0		6.0
E	1.6	3.9	3.2	2.4		4.3
SE	3.2	10.5	6.5	.8		4.0
S	4.8	3.2	2.4	.0		2.5
SW	.0	.0	.8	.0		7.0
W	.0	6.5	8.1	3.2		5.0
NW	3.2	.8	4.8	6.5		5.3
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	3.2	.0		5.0
TOT OBS	4	12	11	4	31	4.4
TOT PCT	12.9	38.7	35.5	12.9	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.1	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16.1	
SE	.0	3.2	.0	.0	.0	3.2	.0	.0	.0	.0	14.5	
S	.0	.0	.0	.0	2.4	.0	.0	.0	.0	.0	8.1	
SW	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	
W	.0	.0	3.2	3.2	.0	.0	.0	.0	.0	.0	11.3	
NW	.0	.0	.0	.0	.0	3.2	.0	.0	.0	.0	12.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	
TOT OBS	0	1	1	1	1	2	0	0	0	0	25	31
TOT PCT	.0	3.2	3.2	3.2	3.2	6.5	.0	.0	.0	.0	80.6	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >2000	3.1	3.1	6.3	6.3	6.3	6.3	6.3	6.3
* OR >1000	6.3	6.3	9.4	9.4	9.4	9.4	9.4	9.4
* OR >600	12.5	12.5	15.6	15.6	15.6	15.6	15.6	15.6
* OR >300	12.5	12.5	18.8	18.8	18.8	18.8	18.8	18.8
* OR >150	12.5	15.6	21.9	21.9	21.9	21.9	21.9	21.9
* OR > 0	12.5	15.6	21.9	21.9	21.9	21.9	21.9	21.9
TOTAL	4	5	7	7	7	7	7	7

TOTAL NUMBER OF OBS: 32 PCT FREQ NH <5/8: 78.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
6.1	15.2	27.3	18.2	9.1	9.1	6.1	.(	9.1	.0	33

PERIOD: (PRIMARY) 1892-1968
(OVER-ALL) 1857-1968

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	2.0	
1<2	NO PCP	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	2.0	
	TOT %	.0	.0	2.0	2.0	.0	.0	.0	.0	.0	.0	4.0	
	PCP	.0	.0	.0	.0	.0	.0	2.0	2.0	.0	.0	4.0	
2<5	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	2.0	2.0	.0	.0	4.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	2.0	.0	.0	2.0	
5<10	NO PCP	4.0	2.0	.0	4.0	1.0	3.0	2.0	2.0	.0	2.0	20.0	
	TOT %	4.0	2.0	.0	4.0	1.0	3.0	2.0	4.0	.0	2.0	22.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10+	NO PCP	12.5	1.0	11.0	13.0	8.5	.5	10.0	9.5	.0	4.0	70.0	
	TOT %	12.5	1.0	11.0	13.0	8.5	.5	10.0	9.5	.0	4.0	70.0	
	TOT OBS												50
	TOT PCT	16.5	3.0	13.0	19.0	9.5	3.5	14.0	15.5	.0	6.0	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	
<1/2	4-10	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.0	.0	.2	.0	.0	.0	.1	.0	.0	.3	
	0-3	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.1	.0	.0	.0	.0	.0	.0	.1	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.0	.0	.0	.0	.0	.1	.2	.0	.0	.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.2	.3	.0	.0	.0	.0	.0		.5	
	11-21	.0	.0	.1	.1	.0	.0	.1	.2	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.2	.4	.0	.0	.1	.2	.0	.0	.9	
	0-3	.1	.0	.0	.0	.0	.0	.0	.2	.0	.0	.3	
2<5	4-10	.2	.1	.1	.1	.1	.1	.3	.5	.0		1.4	
	11-21	.1	.0	.1	.2	.1	.0	.2	.7	.7		1.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.4	.1	.2	.2	.2	.1	.5	1.4	.0	.0	2.9	
	0-3	.3	.2	.0	.2	.0	.2	.2	.3	.0	.5	1.8	
5<10	4-10	.5	.1	.0	.5	.2	.4	.7	.9	.0		3.3	
	11-21	.1	.0	.0	1.4	.2	.0	.0	.2	.0		1.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	1.1	.2	.0	2.0	.4	.5	.8	1.4	.0	.5	6.9	
	0-3	1.7	1.2	2.6	3.7	1.9	1.5	1.6	1.6	.0	6.6	22.4	
10+	4-10	5.8	4.8	7.9	15.3	6.8	4.6	5.5	7.3	.0		58.0	
	11-21	.9	.0	.5	2.3	.5	.1	.5	2.6	.0		7.4	
	22+	.0	.0	.0	.9	.0	.0	.0	.0	.0		.9	
	TOT %	8.4	6.0	11.1	22.2	9.1	6.2	7.6	11.5	.0	6.6	88.7	
	TOT OBS												665
	TOT PCT	10.0	6.3	11.4	25.0	9.7	6.8	9.0	14.8	.0	7.1	100.0	

PERIOD: (PRIMARY) 1892-1968
(OVER-ALL) 1857-1968

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	8.3	8.3	.0	.0	8.3	.0	.0	.0	.0	25.0	75.0	12
06&09	.0	.0	.0	8.3	.0	8.3	.0	.0	.0	.0	16.7	83.3	12
12&15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	4
18&21	.0	.0	.0	25.0	25.0	.0	.0	.0	.0	.0	50.0	50.0	4
TOT	0	1	1	2	1	2	0	0	0	0	7	25	32
PCT	.0	3.1	3.1	6.3	3.1	6.3	.0	.0	.0	.0	21.9	78.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.9	3.5	10.5	85.1	114
06&09	.0	.0	.5	1.4	5.0	93.2	222
12&15	.0	.0	1.7	4.3	8.6	85.3	116
18&21	.9	.9	.9	3.2	6.9	87.0	216
TOT	2	2	6	19	48	591	688
PCT	.3	.3	.9	2.8	7.2	88.5	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	16.7	16.7	8.3	75.0	12
06&09	.0	.0	16.7	.0	83.3	12
12&15	.0	.0	.0	.0	100.0	4
18&21	.0	.0	25.0	25.0	50.0	4
TOT	0	2	5	2	25	32
PCT	.0	6.3	15.6	6.3	78.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.0	7.7	3.8	3.8	4	15.4
80/84	.0	.0	.0	.0	7.7	23.1	30.8	7.7	18	69.2
75/79	.0	.0	.0	.0	.0	.0	3.8	11.5	4	15.4
TOTAL	0	0	0	0	2	8	10	6	26	100.0
PCT	.0	.0	.0	.0	7.7	30.8	38.5	23.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	6.7	8.7	.0	.0	.0	.0	.0	.0
	6.7	.0	9.6	21.2	1.9	1.9	11.5	8.7	.0	7.7
	.0	.0	.0	.0	.0	.0	9.6	5.8	.0	.0
	6.7	.0	16.3	29.8	1.9	1.9	21.2	14.4	.0	7.7

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	89	88	86	82	78	75	74	82.1	531
06&09	93	89	88	84	80	77	75	84.0	1037
12&15	90	88	86	83	79	76	75	82.9	515
18&21	89	87	85	82	78	76	74	81.6	1020
TOT	93	88	87	83	78	76	74	82.7	3103

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	.0	8.3	66.7	25.0	86	12
06&09	.0	.0	10.0	40.0	20.0	30.0	83	10
12&15	.0	.0	.0	66.7	33.3	.0	78	3
18&21	.0	.0	25.0	25.0	50.0	.0	79	4
TOT	0	0	2	8	13	6	83	29

MAY

PERIOD: (PRIMARY) 1892-1968
(OVER-ALL) 1857-1968

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TABLE 17

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

AIR-SEA TMP DIF	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
3	.0	.0	2.2	.0	1	.0	2.2
2	.0	.0	.0	2.2	1	.0	2.2
1	.0	4.4	2.2	.0	3	.0	6.7
0	.0	15.6	4.4	.0	9	.0	20.0
-1	.0	13.6	2.2	.0	8	.0	17.8
-2	.0	15.6	4.4	.0	9	.0	20.0
-3	.0	4.4	.0	.0	2	.0	4.4
-4	11.1	11.1	.0	.0	10	.0	22.2
-5	.0	2.2	.0	.0	1	.0	2.2
-7/-8	2.2	.0	.0	.0	1	.0	2.2
TOTAL	6	31	7	1	45	0	45
PCT	13.3	68.9	15.6	2.2	100.0		100.0

PERIOD: (OVER-ALL) 1963-1968

TABLE 18

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

N

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

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	100.0	.0	.0	.0	.0	.0	100.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	100.0	.0	.0	.0	.0	.0	100.0

E

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

SE

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

PERIOD: (OVER-ALL) 1963-1968 AREA 0001 SOUTHEAST SUMATRA 3.6S 101.6E

TABLE 18 (CONT)

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

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

W								NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	100.0	.0	.0	.0	.0	.0	100.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	100.0	.0	.0	.0	.0	.0	100.0	1

PERIOD: (OVER-ALL) 1949-1968

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	24.0	16.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	2
6-7	.0	4.0	20.0	.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	3
8-9	.0	.0	4.0	8.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	5
10-11	.0	.0	4.0	.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	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	8.0	.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	1
TOTAL	2	7	12	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	3
PCT	8.0	28.0	48.0	8.0	8.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1892-1969
(OVER-ALL) 1855-1969

AREA 0001 SOUTHEAST SUMATRA
3.6S 101.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	12.1	9.1	.0	.0	.0	.0	.0	21.2	21.2	.0	.0	.0	.0	.0	.0	57.6
SE	13.1	1.6	.0	.0	.0	.0	.0	14.8	8.2	13.1	.0	.0	.0	.0	.0	70.5
S	.0	.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	.0	100.0
W	.0	.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	.0	100.0
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	7.5	2.5	.0	.0	.0	.0	.0	10.0	7.5	5.0	.0	.0	.0	.0	.0	80.0
TOT OBS:	40															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00003	7.1	7.1	.0	.0	.0	.0	.0	14.3	21.4	14.3	.0	.0	.0	.0	.0	57.1
06009	7.1	.0	.0	.0	.0	.0	.0	7.1	.0	.0	.0	.0	.0	.0	.0	92.9
12615	12.5	.0	.0	.0	.0	.0	.0	12.5	.0	.0	.0	.0	.0	.0	.0	87.5
18621	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	7.1	2.4	.0	.0	.0	.0	.0	9.5	7.1	4.8	.0	.0	.0	.0	.0	81.0
TOT OBS:	42															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.7	5.4	1.2	.2	.0	.0		8.5	7.3	12.1	.0	7.8	2.9	5.6	.0	9.7	12.7
NE	1.4	4.3	.5	*	.0	.0		6.3	6.1	10.9	.0	3.0	1.6	3.6	.0	7.8	10.3
E	2.8	6.9	1.1	.1	.0	.0		11.0	6.3	17.6	75.0	11.8	4.3	6.7	100.0	10.8	13.9
SE	3.7	17.5	7.3	.8	.0	.0		29.4	8.7	28.6	25.0	32.1	29.3	30.8	.0	28.6	26.9
S	2.3	4.7	1.5	.2	.0	.0		10.6	7.1	5.6	.0	9.1	19.3	13.5	.0	9.9	7.0
SW	1.2	3.0	.5	.0	.0	.0		4.7	6.1	2.7	.0	4.0	10.0	5.3	.0	3.5	3.2
W	1.3	3.7	1.1	.2	.0	.0		6.4	7.5	3.4	.0	5.2	12.7	8.2	.0	5.2	3.9
NW	2.2	7.9	3.4	.3	.0	.0		13.9	8.4	12.2	.0	15.3	14.0	14.5	.0	13.3	14.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.3							9.3	.0	6.9	.0	11.6	5.9	11.7	.0	11.3	8.2
TOT OBS	798	1710	515	55	0	0	3078		6.9	520	1	524	490	497	1	520	525
TOT PCT	25.9	55.6	16.7	1.8	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.6	3.4	.6	*	.0		8.5	7.3	12.1	5.4	5.6	11.2
NE	4.1	2.0	.1	.0	.0		6.3	6.1	10.8	2.3	3.6	9.0
E	6.8	3.8	.3	.0	.0		11.0	6.3	17.7	8.2	6.9	12.3
SE	11.9	14.6	2.8	.0	.0		29.4	8.7	28.6	30.8	30.7	27.7
S	5.7	4.4	.5	*	.0		10.6	7.1	5.6	14.1	13.5	8.4
SW	3.2	1.4	.1	.0	.0		4.7	6.1	2.7	6.9	5.3	4.3
W	3.5	2.4	.4	*	.0		6.4	7.5	3.4	8.8	8.2	4.5
NW	6.5	5.8	1.6	*	.0		13.9	8.4	12.2	14.6	14.5	13.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	9.3						9.3	.0	6.9	8.9	11.6	9.8
TOT OBS	1711	1165	198	4	0	3078		6.9	521	1014	498	1045
TOT PCT	55.6	37.8	6.4	.1	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1892-1969
(OVER-ALL) 1855-1969

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	6.9	17.7	59.9	13.6	1.9	.0	.0	6.9	100.0	521
06&09	8.9	18.2	55.4	15.9	1.6	.0	.0	6.8	100.0	1014
12&15	11.6	14.9	52.8	19.1	1.6	.0	.0	7.0	100.0	498
18&21	9.8	15.4	54.8	18.0	2.0	.0	.0	7.1	100.0	1045
TOT	286	512	1710	515	55	0	0	6.9		3078
PCT	9.3	16.6	55.6	16.7	1.8	.0	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	2.8	.0	.0		4.0
NE	.0	.0	4.6	.0		6.6
E	1.9	1.9	6.5	6.5		5.7
SE	1.9	16.7	14.8	5.6		4.8
S	.0	.0	.0	2.8		8.0
SW	.0	.0	3.7	.0		5.0
W	3.7	.0	5.7	.0		3.5
NW	3.7	.9	11.1	.0		5.4
VAR	.0	.0	.0	.0		.0
CALM	.0	3.7	.0	3.7		5.5
TOT OBS	3	7	12	5	27	5.1
TOT PCT	11.1	25.9	44.4	18.5	100.0	

TABLE 6

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

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.6	
.0	.0	.0	.0	6.5	.0	.0	.0	.0	.0	10.2	
.0	.0	.0	.0	4.6	.9	.0	.0	.0	.0	33.3	
.0	.0	.0	.0	.0	2.8	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	3.7	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.4	
.0	.0	.0	.0	7.4	.0	.0	.0	.0	.0	8.3	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	3.7	.0	.0	.0	.0	.0	.0	3.7	
0	0	0	1	5	2	0	0	0	0	19	27
.0	.0	.0	3.7	18.5	7.4	.0	.0	.0	.0	70.4	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >500YD	* OR >0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >2000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >1000	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
* OR >600	21.4	25.0	25.0	25.0	25.0	25.0	25.0	25.0
* OR >300	25.0	28.6	28.6	28.6	28.6	28.6	28.6	28.6
* OR >150	25.0	28.6	28.6	28.6	28.6	28.6	28.6	28.6
* OR > 0	25.0	28.6	28.6	28.6	28.6	28.6	28.6	28.6
TOTAL	7	8	8	8	8	8	8	8

TOTAL NUMBER OF OBS: 28 PCT FREQ NH <5/8: 71.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
10.0	10.0	16.7	30.0	3.3	10.0	3.3	.0	16.7	.0	30

PERIOD: (PRIMARY) 1892-1969
(OVER-ALL) 1855-1969

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.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	4.5	.6	.0	.0	.0	.0	.0	.0	5.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	4.5	.6	.0	.0	.0	.0	.0	.0	5.1	
5<10	PCP	.0	.0	.0	5.1	.0	.0	.0	.0	.0	.0	5.1	
	NO PCP	.0	.0	5.1	6.4	6.4	.0	.0	.0	.0	.0	17.9	
	TOT %	.0	.0	5.1	11.5	6.4	.0	.0	.0	.0	.0	23.1	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	1.9	5.8	11.5	26.9	4.5	2.6	2.6	10.9	.0	5.1	71.8	
	TOT %	1.9	5.8	11.5	26.9	4.5	2.6	2.6	10.9	.0	5.1	71.8	
	TOT OBS												39
	TOT PCT	1.9	5.8	21.2	39.1	10.9	2.6	2.6	10.9	.0	5.1	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.0	.0	.0	.0	.2	.0	.0	.0		.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.3	
2<5	0-3	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.0	.2	.3	.1	.0	.0	.2	.0		.7	
	11-21	.0	.0	.1	*	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.3	.3	.1	.0	.0	.2	.0	.0	1.0	
5<10	0-3	.2	.0	.0	.2	.0	.0	.3	.1	.0	.2	.8	
	4-10	.6	.6	.8	1.5	1.0	.0	.0	.3	.0		4.9	
	11-21	.0	.0	.2	.5	.7	.0	.3	.1	.0		1.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.8	.6	1.0	2.2	1.7	.0	.5	.5	.0	.2	7.4	
10+	0-3	1.0	1.6	2.5	3.4	2.2	.8	2.4	1.3	.0	7.1	22.2	
	4-10	5.5	4.1	5.9	18.7	8.1	2.6	2.3	6.2	.0		53.4	
	11-21	1.1	.2	.7	9.3	.8	.0	.2	2.9	.0		15.1	
	22+	.0	.0	.0	.5	.0	.0	.0	.0	.0		.5	
	TOT %	7.6	5.8	9.1	31.9	11.1	3.4	4.9	10.3	.0	7.1	91.3	
	TOT OBS												595
	TOT PCT	8.5	6.4	10.5	34.4	12.9	3.6	5.4	11.0	.0	7.2	100.0	

PERIOD: (PRIMARY) 1892-1969
(OVER-ALL) 1855-1969

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00Z03	.0	.0	.0	.0	38.5	.0	.0	.0	.0	.0	38.5	61.5	13
06Z09	.0	.0	.0	.0	.0	25.0	.0	.0	.0	.0	25.0	75.0	8
12Z15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	5
18Z21	.0	.0	.0	33.3	.0	.0	.0	.0	.0	.0	33.3	66.7	3
TOT	0	0	0	1	5	2	0	0	0	0	8	21	29
PCT	.0	.0	.0	3.4	17.2	6.9	.0	.0	.0	.0	27.6	72.4	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
00Z03	.0	.0	.0	1.7	9.6	88.7	115
06Z09	.0	.0	.0	.0	5.3	94.7	187
12Z15	.0	.0	.0	2.9	5.8	91.3	104
18Z21	.5	.0	1.0	.5	8.9	89.0	191
TOT	1	0	2	6	44	544	597
PCT	.2	.0	.3	1.0	7.4	91.1	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00Z03	.0	.0	.0	38.5	61.5	13
06Z09	.0	.0	.0	25.0	75.0	8
12Z15	.0	.0	.0	.0	100.0	5
18Z21	.0	50.0	100.0	.0	.0	2
TOT	0	1	2	7	19	28
PCT	.0	3.6	7.1	25.0	67.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	8.3	8.3	.0	.0	4	16.7
80/84	.0	.0	.0	.0	.0	29.2	37.5	.0	16	66.7
75/79	.0	.0	.0	.0	.0	.0	12.5	4.2	4	16.7
TOTAL	0	0	0	0	2	9	12	1	24	100.0
PCT	.0	.0	.0	.0	8.3	37.5	50.0	4.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	12.5	.0	4.2	.0	.0	.0	.0
	3.1	1.0	13.5	24.0	11.5	.0	.0	13.5	.0	.0
	.0	4.2	6.3	2.1	.0	.0	.0	.0	.0	4.2
	3.1	5.2	19.8	38.5	11.5	4.2	.0	13.5	.0	4.2

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00Z03	89	87	85	82	78	76	72	81.6	516
06Z09	95	91	88	83	79	77	74	83.7	1002
12Z15	89	87	86	83	78	76	73	82.5	493
18Z21	90	87	85	81	77	76	74	81.2	1034
TOT	95	89	86	82	78	76	72	82.3	3045

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00Z03	.0	.0	.0	20.0	70.0	10.0	84	10
06Z09	.0	.0	16.7	66.7	16.7	.0	74	6
12Z15	.0	.0	16.7	66.7	16.7	.0	75	6
18Z21	.0	.0	.0	.0	100.0	.0	86	3
TOT	0	0	2	10	12	1	79	25

PERIOD: (PRIMARY) 1892-1969
(OVER-ALL) 1855-1969

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TABLE 17

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

AIR-SEA TMP DIF	77 80	81 84	85 88	TOT	W FOG	WO FOG
6	.0	.0	2.9	1	.0	2.9
2	.0	.0	5.7	2	.0	5.7
1	.0	.0	5.7	2	.0	5.7
0	.0	8.6	2.9	4	.0	11.4
-1	2.9	22.9	2.9	10	.0	28.6
-2	2.9	20.0	.0	8	.0	22.9
-3	.0	8.6	.0	3	.0	8.6
-4	5.7	.0	.0	2	.0	5.7
-5	2.9	2.9	.0	2	.0	5.7
-7/-8	2.9	.0	.0	1	.0	2.9
TOTAL	6		7		0	35
		22		35		
PCT	17.1	62.9	20.0	100.0		100.0

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

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

NE

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

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	15.0	.0	.0	.0	15.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	15.0	.0	.0	.0	15.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	20.0	.0	.0	.0	.0	20.0
3-4	.0	25.0	.0	.0	.0	.0	25.0
5-6	.0	.0	5.0	.0	.0	.0	5.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	45.0	5.0	.0	.0	.0	50.0

PERIOD: (OVER-ALL) 1963-1969

JUNE

AREA 0001 SOUTHEAST SUMATRA
3.6S 101.7E

TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	15.0	.0	.0	.0	.0	15.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	15.0	.0	.0	.0	.0	15.0

SW

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

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	20.0	.0	.0	.0	20.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	20.0	.0	.0	.0	20.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	20.0	20.0	.0	.0	.0	40.0	
3-4	.0	40.0	.0	.0	.0	.0	40.0	
5-6	.0	.0	20.0	.0	.0	.0	20.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	60.0	40.0	.0	.0	.0	100.0	5

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT -REQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	3.8	7.7	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	3
6-7	.0	.0	19.2	3.8	7.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	4
8-9	.0	.0	3.8	7.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	4
10-11	.0	.0	.0	11.5	7.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	6
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	.0	11.5	3.8	3.8	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	4
TOTAL	0	4	9	8	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	4
PCT	.0	15.4	34.6	30.8	19.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1891-1969
(OVER-ALL) 1854-1969

AREA 0001 SOUTHEAST SUMATRA
3.6S 101.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	50.0	.0	.0	.0	.0		.0	50.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	50.0	.0	.0	.0	.0		.0	50.0
E	.0	17.4	.0	.0	.0	.0	.0	17.4	.0	8.7	.0	.0	.0		.0	73.9
SE	3.2	6.4	6.4	.0	.0	.0	.0	16.0	.0	6.4	.0	.0	.0		.0	77.6
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	.0
NW	33.3	.0	.0	.0	.0	.0	.0	33.3	.0	.0	.0	.0	.0		.0	66.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	4.7	6.3	3.1	.0	.0	.0	.0	14.1	4.7	4.7	.0	.0	.0		.0	76.6
TOT OBS:	64															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	4.8	9.5	.0	.0	.0	.0	.0	14.3	.0	9.5	.0	.0	.0		.0	76.2
06&09	5.0	5.0	.0	.0	.0	.0	.0	10.0	10.0	.0	.0	.0	.0		.0	80.0
12&15	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.1	.0	.0	.0		.0	88.9
18&21	6.7	6.7	13.3	.0	.0	.0	.0	26.7	6.7	.0	.0	.0	.0		.0	66.7
TOT PCT	4.6	6.2	3.1	.0	.0	.0	.0	13.8	4.6	4.6	.0	.0	.0		.0	76.9
TOT OBS:	65															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.4	5.8	1.8	.1	.0	.0		8.7	7.7	11.9	33.3	7.3	4.0	5.2	.0	10.6	12.5
NE	1.3	4.6	.6	*	.0	.0		6.5	6.4	11.6	.0	4.9	2.1	4.7	.0	6.9	9.0
E	1.6	5.9	2.2	.2	.0	.0		9.9	8.0	14.4	.0	10.6	3.6	5.2	50.0	10.0	14.8
SE	3.3	19.0	10.8	1.1	.0	.0		34.2	9.4	34.7	33.3	36.5	34.3	39.1	50.0	34.6	31.9
S	1.4	6.8	1.8	.1	.0	.0		10.1	7.6	4.9	.0	8.0	18.7	14.2	.0	9.0	6.4
SW	.8	2.9	.4	*	.0	.0		4.1	6.4	1.9	33.3	4.3	8.0	5.1	.0	2.6	2.7
W	1.1	3.2	.7	.1	*	.0		5.2	7.2	3.7	.0	5.0	9.1	7.2	.0	3.3	2.8
NW	1.8	7.2	3.4	.6	*	.0		12.8	8.9	11.7	.0	13.4	13.9	13.9	.0	11.2	13.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.5							8.5	.0	5.3	.0	9.9	6.3	11.3	.0	11.9	6.8
TOT OBS	648	1680	684	61	2	0	3045		7.6	531	9	526	489	497	1	496	502
TOT PCT	21.3	55.2	21.5	2.0	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.1	4.0	.5	*	.0		8.7	7.7	12.0	5.7	5.2	11.6
NE	4.3	2.3	.1	.0	.0		6.6	6.4	11.5	3.6	4.7	7.9
E	4.7	4.3	.8	.0	.0		9.9	8.0	14.3	7.2	5.3	12.4
SE	12.1	17.8	4.2	*	.0		34.2	9.4	34.7	35.4	33.2	33.2
S	5.1	4.5	.4	*	.0		10.1	7.6	4.9	12.2	14.2	7.7
SW	2.6	1.4	*	.0	.0		4.1	6.4	2.1	6.1	5.1	2.7
W	3.1	1.8	.3	*	.0		5.2	7.2	3.7	7.0	7.2	3.1
NW	5.3	6.1	1.2	.2	.0		12.8	8.9	11.6	13.6	13.9	12.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	8.5						8.5	.0	5.2	8.2	11.2	9.3
TOT OBS	1510	1288	232	9	0	3045		7.6	534	1015	498	998
TOT PCT	49.8	42.3	7.6	.3	.0		100.0		100.0	100.0	100.0	100.0

JULY

PERIOD: (PRIMARY) 1891-1969
(OVER-ALL) 1854-1969

TABLE 4

AREA 0001 SOUTHEAST SUMATRA
3.6S 101.6E

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	5.2	12.7	59.4	21.5	1.1	.0	.0	7.7	100.0	534
06&09	8.2	14.9	53.0	21.7	2.2	.1	.0	7.6	100.0	1015
12&15	11.2	10.6	52.8	22.9	2.2	.2	.0	7.7	100.0	498
18&21	9.3	11.6	56.3	20.5	2.2	.0	.0	7.6	100.0	998
TOT	260	388	1680	654	61	2	0	7.6		3045
PCT	8.5	12.7	55.2	21.5	2.0	.1	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	2.3	2.3		7.0
NE	.0	.0	4.7	.0		7.0
E	7.0	4.7	9.3	.0		3.8
SE	7.0	9.3	26.2	4.7		5.0
S	.0	.0	1.7	.0		5.0
SW	.0	.0	4.7	.0		7.0
W	.0	.0	.0	.0		.0
NW	.0	2.3	7.0	2.3		6.0
VAR	.0	.0	.0	.0		.0
CALM	2.3	2.3	.0	.0		2.5
TOT OBS	7	8	24	4	43	5.0
TOT PCT	16.3	18.6	55.8	9.3	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	2.3	2.3	.0	.0	.0	.0	.0	.0	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	
E	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	18.6	
SE	.0	.0	.0	2.3	7.0	2.3	.0	.0	.0	.0	35.3	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	
SW	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	2.3	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	2.3	.0	.0	.0	.0	9.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	
TOT OBS	0	0	0	4	4	2	0	0	0	0	33	43
TOT PCT	.0	.0	.0	9.3	9.3	4.7	.0	.0	.0	.0	76.7	100.0

TABLE 7

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

CEILING (FEET)	VSBY (Nm) • OR >10	• OR >5	• OR >2	• OR >1	• OR >1/2	• OR >1/4	• OR >50YD	• OR >0
• OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
• OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
• OR >3500	.0	.0	.0	.0	.0	.0	.0	.0
• OR >2000	2.3	4.7	4.7	4.7	4.7	4.7	4.7	4.7
• OR >1000	9.3	14.0	14.0	14.0	14.0	14.0	14.0	14.0
• OR >600	16.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3
• OR >300	16.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3
• OR >150	16.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3
• OR > 0	16.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3
TOTAL	7	10	10	10	10	10	10	10

TOTAL NUMBER OF OBS: 43 PCT FREQ NH <5/8: 76.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
6.7	13.3	26.7	13.3	15.6	8.9	2.2	8.9	4.4	.0	45

JULY

PERIOD: (PRIMARY) 1891-1969
(OVER-ALL) 1854-1969

AREA 0001 SOUTHEAST SUMATRA
3.6S 101.6E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	1.6	6.3	.0	.0	.0	3.1	.0	.0	10.9	
5<10	NO PCP	3.1	.0	.0	6.3	4.7	1.6	.0	.0	.0	.0	15.6	
	TOT %	3.1	.0	1.6	12.5	4.7	1.6	.0	3.1	.0	.0	26.6	
	PCP	.0	.0	1.6	1.6	.0	.0	.0	.0	.0	.0	3.1	
10+	NO PCP	3.1	3.1	14.8	34.8	2.0	3.1	.0	6.3	.0	3.1	70.3	
	TOT %	3.1	3.1	16.4	36.3	2.0	3.1	.0	6.3	.0	3.1	73.4	
	TOT OBS												64
	TOT PCT	6.3	3.1	18.0	48.8	6.6	4.7	.0	9.4	.0	3.1	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.0	.0	.0	.2	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.2	.0	.0		.2	
	TOT %	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	
2<5	4-10	.1	.0	.0	.0	.0	.0	.0	.3	.0		.3	
	11-21	.1	.0	.0	.0	.0	.1	.1	.1	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.0	.0	.0	.0	.1	.1	.3	.0	.3	1.0	
	0-3	.2	.0	.3	.7	.3	.0	.0	.0	.0	.5	2.0	
5<10	4-10	.8	.2	.3	1.4	.8	.3	.6	.6	.0		4.8	
	11-21	.1	.1	.2	.3	.2	.2	.2	.7	.0		1.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.2	.0		.2	
	TOT %	1.0	.3	.8	2.4	1.3	.4	.8	1.4	.0	.5	8.8	
	0-3	1.5	2.3	2.1	2.0	2.1	1.0	.8	1.5	.0	5.5	18.8	
10+	4-10	4.7	3.7	6.9	19.0	7.8	2.4	2.5	5.1	.0		52.2	
	11-21	.7	.0	1.0	13.0	1.5	.2	.3	1.8	.0		18.5	
	22+	.0	.0	.0	.0	.0	.0	.2	.0	.0		.2	
	TOT %	6.8	6.0	10.0	34.1	11.5	3.6	3.8	8.4	.0	5.5	89.7	
	TOT OBS												600
	TOT PCT	8.0	6.3	10.8	38.7	12.8	4.1	4.9	10.2	.0	6.3	100.0	

PERIOD: (PRIMARY) 1891-1969
(OVER-ALL) 1854-1969

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00Z03	.0	.0	.0	6.7	13.3	6.7	.0	.0	.0	.0	26.7	73.3	15
06Z09	.0	.0	.0	.0	7.1	.0	.0	.0	.0	.0	7.1	92.9	14
12Z15	.0	.0	.0	16.7	.0	.0	.0	.0	.0	.0	16.7	83.3	6
18Z21	.0	.0	.0	22.2	11.1	11.1	.0	.0	.0	.0	44.4	55.6	9
TOT	0	0	0	4	4	2	0	0	0	0	10	34	44
PCT	.0	.0	.0	9.1	9.1	4.5	.0	.0	.0	.0	22.7	77.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00Z03	.0	.9	.0	1.8	9.9	87.4	111
06Z09	.0	.0	.5	.5	6.7	92.2	193
12Z15	.0	.0	.0	.0	9.9	90.1	101
18Z21	.0	.0	.5	1.5	10.2	87.8	196
TOT	0	1	2	6	54	538	601
PCT	.0	.2	.3	1.0	9.0	89.5	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00Z03	.0	.0	6.7	20.0	73.3	15
06Z09	.0	.0	.0	7.1	92.9	14
12Z15	.0	.0	20.0	.0	80.0	5
18Z21	.0	.0	22.2	22.2	55.6	9
TOT	0	0	4	6	33	43
PCT	.0	.0	9.3	14.0	76.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	2.0	.0	.0	.0	1	2.0
85/89	.0	.0	.0	.0	.0	6.1	.0	.0	3	6.1
80/84	.0	.0	.0	.0	.0	40.8	32.7	2.0	37	75.5
75/79	.0	.0	.0	.0	.0	.0	10.2	6.1	8	16.3
TOTAL	0	0	0	0	1	23	21	4	49	100.0
PCT	.0	.0	.0	.0	2.0	46.9	42.9	8.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.5	1.5	.0	.0	2.0	.0	2.0
2.0	4.1	10.2	46.9	.0	2.0	.0	8.2	.0	2.0
4.1	.0	2.0	6.1	.0	2.0	.0	2.0	.0	.0
6.1	4.1	14.3	53.6	1.5	4.1	.0	12.2	.0	4.1

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00Z03	90	87	83	81	77	75	72	81.1	530
06Z09	93	90	87	83	79	76	74	83.2	992
12Z15	89	86	85	82	78	76	74	81.9	489
18Z21	92	86	84	81	76	75	73	80.7	984
TOT	93	89	86	82	77	75	72	81.8	2995

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00Z03	.0	.0	.0	47.1	41.2	11.8	81	17
06Z09	.0	.0	6.7	60.0	26.7	6.7	77	15
12Z15	.0	.0	.0	50.0	50.0	.0	79	6
18Z21	.0	.0	.0	25.0	66.7	8.3	82	12
TOT	0	0	1	23	22	4	80	50

JULY

PERIOD: (PRIMARY) 1891-1969
(OVER-ALL) 1854-1969

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TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.0	1.7	1	.0	1.7
3	.0	.0	1.7	1.7	.0	2	.0	3.3
2	.0	.0	1.7	.0	.0	1	.0	1.7
1	.0	.0	6.7	1.7	.0	5	.0	8.3
0	.0	.0	13.3	.0	.0	8	.0	13.3
-1	.0	3.3	16.7	3.3	.0	14	.0	23.3
-2	.0	3.3	20.0	1.7	.0	15	.0	25.0
-3	.0	5.0	5.0	.0	.0	6	.0	10.0
-4	5.0	6.7	.0	.0	.0	7	.0	11.7
-6	.0	1.7	.0	.0	.0	1	.0	1.7
TOTAL	3	12	39	5	1	60	0	60
PCT	5.0	20.0	65.0	8.3	1.7	100.0		100.0

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

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

NE

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

E

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

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	20.0	.0	.0	.0	.0	20.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	20.0	20.0	.0	.0	.0	40.0
5-6	.0	.0	40.0	.0	.0	.0	40.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	40.0	60.0	.0	.0	.0	100.0

PERIOD: (OVER-ALL) 1963-1969

JULY

TABLE 18 (CONT)

AREA 0C01 SOUTHEAST SUMATRA
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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

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

SW

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

W

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

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	20.0	.0	.0	.0	.0	20.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	20.0	20.0	.0	.0	.0	40.0	
5-6	.0	.0	40.0	.0	.0	.0	40.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	40.0	60.0	.0	.0	.0	100.0	5

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	5.6	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	3
6-7	.0	.0	30.6	8.3	11.1	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	5
8-9	.0	.0	5.6	11.1	2.8	2.8	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	2.8	.0	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	0
TOTAL	1	2	14	8	5	4	2	0	0	0	0	0	0	0	0	0	0	0	0	36	5
PCT	2.8	5.6	38.9	22.2	13.9	11.1	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1894-1969
(OVER-ALL) 1866-1969

AREA 0001 SOUTHEAST SUMATRA
3.6S 101.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NE	.0	.0	28.6	.0	.0	.0	.0	28.6	.0	.0	.0	.0	.0		.0	71.4
E	.0	.0	33.3	.0	.0	.0	.0	33.3	.0	.0	.0	.0	.0		.0	66.7
SE	.0	11.6	5.8	.0	.0	.0	.0	17.4	.0	.0	.0	.0	.0		.0	82.6
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	57.1	.0	.0	.0	.0	.0	.0	57.1	.0	.0	.0	.0	.0		.0	42.9
NW	16.7	.0	.0	.0	.0	.0	.0	16.7	33.3	.0	.0	.0	.0		.0	50.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	33.3	.0	.0	.0	.0	.0	33.3	.0	.0	.0	.0	.0		.0	66.7
TOT PCT	4.8	7.1	9.5	.0	.0	.0	.0	21.4	4.8	.0	.0	.0	.0		.0	73.8
TOT OBS:	42															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.0	16.7	8.3	.0	.0	.0	.0	25.0	8.3	.0	.0	.0	.0		.0	66.7
06&09	8.3	.0	8.3	.0	.0	.0	.0	16.7	8.3	.0	.0	.0	.0		.0	75.0
12&15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
18&21	11.1	11.1	22.2	.0	.0	.0	.0	44.4	.0	.0	.0	.0	.0		.0	55.6
TOT PCT	4.7	7.0	9.3	.0	.0	.0	.0	20.9	4.7	.0	.0	.0	.0		.0	74.4
TOT OBS:	43															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.8	3.4	.9	.1	*	.0		5.3	8.1	7.5	.0	4.6	1.5	2.3	25.0	7.3	8.6
NE	.9	3.5	.3	.1	.0	.0		4.8	6.3	9.3	.0	2.1	.8	2.0	50.0	6.5	8.4
E	1.2	5.4	1.9	.3	.0	.0		8.9	8.4	13.0	.0	8.8	3.2	6.5	.0	9.9	12.2
SE	2.3	18.0	19.3	3.3	.1	.0		43.1	11.9	44.4	.0	46.9	42.5	42.2	.0	40.2	42.1
S	1.2	7.8	4.7	.6	.0	.0		14.4	10.0	8.1	.0	14.8	24.4	17.8	.0	12.7	8.7
SW	.7	2.6	.6	.0	.0	.0		3.8	7.1	1.8	.0	3.2	8.1	5.5	.0	2.4	1.9
W	.7	2.8	.8	.1	.0	.0		4.4	8.0	2.8	.0	3.4	6.6	5.4	.0	4.7	3.6
NW	1.1	5.5	2.1	.4	*	.0		9.2	9.1	8.6	100.0	10.4	8.8	9.4	25.0	8.8	8.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.1							6.1	.0	4.5	.0	5.7	4.2	9.1	.0	7.6	5.8
TOT OBS	459	1490	933	154	6	0	3042		9.5	513	1	524	505	508	2	489	500
TOT PCT	15.1	49.0	30.7	5.1	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.8	1.9	.5	.1	.0		5.3	8.1	7.5	3.1	2.4	8.0
NE	3.3	1.4	.1	*	.0		4.8	6.3	9.2	1.5	2.2	7.5
E	4.4	3.6	.9	.1	.0		8.9	8.4	13.0	6.0	6.5	11.1
SE	9.1	22.9	10.4	.7	.0		43.1	11.9	44.4	44.7	42.1	41.2
S	4.5	7.7	2.1	.1	.0		14.4	10.0	8.1	19.5	17.7	10.7
SW	2.1	1.6	.2	.0	.0		3.8	7.1	1.8	3.6	5.4	2.1
W	2.1	1.9	.3	*	.0		4.4	8.0	2.8	5.0	5.4	4.1
NW	3.9	3.9	1.2	.1	.0		9.2	9.1	8.8	9.6	9.4	8.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	6.1						6.1	.0	4.5	5.0	9.0	6.7
TOT OBS	1165	1365	477	35	0	3042		9.5	514	1029	510	989
TOT PCT	38.3	44.9	15.7	1.2	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1894-1969
(OVER-ALL) 1860-1969

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	4.5	9.3	51.2	30.0	4.5	.6	.0	9.5	100.0	514
06&09	5.0	9.6	47.7	31.6	5.8	.3	.0	9.7	100.0	1029
12&15	9.0	7.8	47.8	29.2	6.1	.0	.0	9.5	100.0	510
18&21	6.7	8.7	49.7	30.8	4.0	.0	.0	9.4	100.0	989
TOT	186	273	1490	933	154	6	0	9.5		3042
PCT	6.1	9.0	49.0	30.7	5.1	.2	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.0	.0	.0	.0		2.0
NE	1.0	.0	.0	.0		2.0
E	.0	.0	11.0	.0		6.5
SE	.0	4.0	29.0	16.0		6.0
S	.0	4.0	3.0	.0		5.2
SW	1.0	.0	1.0	.0		4.5
W	3.0	.0	.0	.0		2.0
NW	.0	.0	4.0	8.0		7.6
VAR	.0	.0	.0	.0		.0
CALM	.0	4.0	.0	8.0		6.3
TOT OBS	2	3	12	8	25	5.9
TOT PCT	8.0	12.0	48.0	32.0	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.0	
SE	.0	.0	.0	4.0	12.0	8.0	.0	.0	.0	.0	25.0	
S	.0	.0	.0	.0	3.0	.0	.0	.0	.0	.0	4.0	
SW	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	1.0	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	4.0	.0	.0	.0	.0	.0	.0	8.0	
TOT OBS	0	0	0	2	4	2	0	0	0	0	17	25
TOT PCT	.0	.0	.0	8.0	16.0	8.0	.0	.0	.0	.0	68.0	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >2000	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
* OR >1000	15.4	15.4	23.1	23.1	23.1	23.1	23.1	23.1
* OR >600	23.1	23.1	34.6	34.6	34.6	34.6	34.6	34.6
* OR >300	23.1	23.1	34.6	34.6	34.6	34.6	34.6	34.6
* OR >150	23.1	23.1	34.6	34.6	34.6	34.6	34.6	34.6
* OR > 0	23.1	23.1	34.6	34.6	34.6	34.6	34.6	34.6
TOTAL	6	6	9	9	9	9	9	9

TOTAL NUMBER OF OBS: 26

PCT FREQ NH <5/8: 65.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
.0	14.3	21.4	14.3	17.9	17.9	.0	7.1	7.1	.0	28

AUGUST

PERIOD: (PRIMARY) 1894-1969
(OVER-ALL) 1860-1969

AREA 0001 SOUTHEAST SUMATRA
3.6S 101.6E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	1.2	6.0	7.1	.0	.0	.0	2.4	.0	2.4	19.0	
2<5	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	1.2	6.0	7.1	.0	.0	.0	2.4	.0	2.4	19.0	
	PCP	.0	.0	.0	.0	.0	.0	2.4	.0	.0	.0	2.4	
5<10	NO PCP	1.2	.0	.0	.0	.0	.0	.0	3.6	.0	.0	4.8	
	TOT %	1.2	.0	.0	.0	.0	.0	2.4	3.6	.0	.0	7.1	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10+	NO PCP	3.0	3.0	11.9	33.9	6.0	1.2	1.8	8.3	.0	4.8	73.8	
	TOT %	3.0	3.0	11.9	33.9	6.0	1.2	1.8	8.3	.0	4.8	73.8	
	TOT OBS												42
	TOT PCT	4.2	4.2	17.9	41.1	6.0	1.2	4.2	14.3	.0	7.1	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.1	.1	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.2	.2	.0	.0	.0	.0	.2	.2	.0		.7	
	11-21	.1	.0	.0	.0	.1	.1	.2	.1	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.2	.0	.0	.1	.1	.3	.2	.0	.0	1.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
2<5	4-10	.1	.2	.2	.0	.0	.2	.2	.2	.0		1.2	
	11-21	.2	.0	.3	1.2	.0	.0	.0	.0	.0		1.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.2	.6	1.2	.0	.2	.2	.2	.0	.2	3.0	
	0-3	.2	.0	.0	.0	.0	.0	.0	.2	.0	.0	.3	
5<10	4-10	.3	.2	.2	1.4	.5	.0	.0	.3	.0		3.0	
	11-21	.1	.0	.0	4.7	.9	.2	.2	.1	.0		6.1	
	22+	.0	.1	.2	.7	.2	.0	.0	.0	.0		1.2	
	TOT %	.6	.2	.5	6.8	1.6	.2	.2	.6	.0	.0	10.6	
	0-3	1.0	1.0	1.2	2.0	.6	.7	.7	1.0	.0	3.3	11.6	
10+	4-10	1.9	1.8	4.1	17.5	8.6	2.2	1.5	3.8	.0		41.5	
	11-21	.7	.0	1.0	22.0	5.4	.0	.1	.6	.0		29.7	
	22+	.0	.0	.5	1.6	.4	.0	.0	.0	.0		2.3	
	TOT %	3.6	2.9	6.8	42.8	15.0	3.0	2.3	5.4	.0	3.3	85.1	
	TOT OBS												603
	TOT PCT	4.7	3.5	7.9	50.8	16.7	3.4	3.0	6.6	.0	3.5	100.0	

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PERIOD: (PRIMARY) 1894-1969
(OVER-ALL) 1860-1969

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	.0	22.2	11.1	.0	.0	.0	.0	.0	33.3	66.7	9
06E09	.0	.0	.0	.0	16.7	.0	.0	.0	.0	.0	16.7	83.3	6
12E15	.0	.0	.0	12.5	12.5	25.0	.0	.0	.0	.0	50.0	50.0	8
18E21	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	20.0	80.0	5
TOT	0	0	0	3	4	2	0	0	0	0	9	19	28
PCT	.0	.0	.0	10.7	14.3	7.1	.0	.0	.0	.0	32.1	67.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.0	.0	.9	3.6	14.5	80.9	110
06E09	.0	.0	1.0	1.0	6.0	92.0	199
12E15	.0	1.0	.0	2.0	13.1	83.8	99
18E21	.0	.0	2.0	5.1	11.7	81.1	196
TOT	0	1	7	18	64	514	604
PCT	.0	.2	1.2	3.0	10.6	85.1	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	.0	37.5	.0	62.5	8
06E09	.0	.0	.0	16.7	83.3	6
12E15	.0	.0	14.3	42.9	42.9	7
18E21	.0	.0	40.0	.0	60.0	5
TOT	0	0	6	4	16	26
PCT	.0	.0	23.1	15.4	61.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	4.3	.0	.0	.0	1	4.3
80/84	.0	.0	.0	.0	4.3	43.5	30.4	.0	18	78.3
75/79	.0	.0	.0	.0	.0	.0	8.7	8.7	4	17.4
TOTAL	0	0	0	0	2	10	9	2	23	100.0
PCT	.0	.0	.0	.0	8.7	43.5	39.1	8.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	4.3	.0	.0	.0	.0	.0	.0
	3.3	1.1	12.0	32.6	6.5	2.2	3.3	8.7	.0	8.7
	.0	.0	.0	8.7	.0	.0	.0	4.3	.0	4.3
	3.3	1.1	12.0	45.7	6.5	2.2	3.3	13.0	.0	13.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	87	86	85	81	76	74	71	80.7	505
06E09	91	90	87	83	79	76	73	82.7	1001
12E15	89	87	85	81	77	76	74	81.3	502
18E21	87	85	83	80	76	74	70	80.2	976
TOT	91	87	86	81	77	75	70	81.3	2984

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	.0	33.3	66.7	.0	82	6
06E09	.0	.0	33.3	50.0	16.7	.0	74	6
12E15	.0	.0	.0	37.5	50.0	12.5	83	8
18E21	.0	.0	.0	50.0	25.0	25.0	83	4
TOT	0	0	2	10	10	2	81	24

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TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
4	.0	.0	.0	.0	2.6	1	.0	2.6
3	.0	.0	2.6	.0	.0	1	.0	2.6
1	.0	.0	2.6	.0	.0	1	.0	2.6
0	.0	.0	15.8	2.6	.0	7	.0	18.4
-1	.0	7.9	18.4	.0	.0	10	.0	26.3
-2	.0	10.5	15.8	.0	.0	10	.0	26.3
-3	.0	.0	5.3	.0	.0	2	.0	5.3
-4	.0	7.9	.0	.0	.0	3	.0	7.9
-5	.0	2.6	.0	.0	.0	1	.0	2.6
-6	.0	2.6	.0	.0	.0	1	.0	2.6
-7/-8	2.6	.0	.0	.0	.0	1	.0	2.6
TOTAL	1		23		1	38	0	38
		12		1				
PCT	2.6	31.6	60.5	2.6	2.6	100.0		100.0

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

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

NE

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

E

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

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	33.3	.0	.0	.0	.0	33.3
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	33.3	.0	.0	.0	33.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	33.3	33.3	.0	.0	.0	66.7

PERIOD: (OVER-ALL) 1963-1969

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TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	25.0	.0	.0	.0	.0	25.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	25.0	.0	.0	.0	.0	25.0

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	8.3	.0	.0	.0	.0	8.3
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.3	.0	.0	.0	.0	8.3

W

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

NW

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

HGT	TOTAL PCT
<1	
1-2	
3-4	
5-6	
7	
8-9	
10-11	
12	
13-16	
17-19	
20-22	
23-25	
26-32	
33-40	
41-48	
49-60	
61-70	
71-86	
87+	
TOT PCT	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	25.0	.0	.0	.0	.0	25.0	
1-2	.0	50.0	.0	.0	.0	.0	50.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	25.0	.0	.0	.0	25.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	75.0	25.0	.0	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	12.0	20.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	3
6-7	.0	.0	16.0	8.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	4
8-9	.0	.0	12.0	8.0	.0	8.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	5
10-11	.0	.0	.0	.0	.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	0
TOTAL	1	3	12	5	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	25	4
PCT	4.0	12.0	48.0	20.0	4.0	12.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: .PRIMARY) 1893-1972
(OVER-ALL) 1862-1972

AREA 0001 SOUTHEAST SUMATRA
3.7S 101.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	58.3	.0	.0	.0	.0	.0	.0	58 3	25.0	.0	.0	.0	.0		.0	16.7
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
E	.0	25.0	.0	.0	.0	.0	.0	25.0	.0	.0	.0	.0	.0		.0	75.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	5.3	2.7	.0	.0	.0		.0	92.0
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	22.2	.0	.0	.0	.0	.0	.0	22.2	77.8	.0	.0	.0	.0		.0	.0
NW	44.0	.0	.0	.0	.0	.0	.0	44.0	24.0	.0	.0	.0	.0		.0	32.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	100.0	.0	.0	.0	.0	.0	.0	100.0	.0	.0	.0	.0	.0		.0	.0
TOT PCT	9.7	1.6	.0	.0	.0	.0	.0	11.3	9.7	1.6	.0	.0	.0		.0	77.4
TOT OBS:	62															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	13.6	4.5	.0	.0	.0	.0	.0	18.2	4.5	.0	.0	.0	.0		.0	77.3
06&09	4.8	.0	.0	.0	.0	.0	.0	4.8	19.0	.0	.0	.0	.0		.0	76.2
12&15	10.0	.0	.0	.0	.0	.0	.0	10.0	.0	10.0	.0	.0	.0		.0	80.0
18&21	10.0	.0	.0	.0	.0	.0	.0	10.0	10.0	.0	.0	.0	.0		.0	80.0
TOT PCT	9.5	1.6	.0	.0	.0	.0	.0	11.1	9.5	1.6	.0	.0	.0		.0	77.8
TOT OBS:	63															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.0	3.7	1.5	*	.0	.0		6.3	8.0	7.7	.0	5.0	2.3	3.7	.0	8.6	9.9
NE	.5	3.1	.6	*	.0	.0		4.2	7.2	7.0	.0	2.0	.6	2.8	.0	7.0	5.6
E	1.0	4.7	1.4	.1	.0	.0		7.2	7.7	10.1	.0	6.6	2.3	4.4	.0	8.3	10.9
SE	2.3	16.7	19.7	2.3	.1	.0		41.0	11.7	45.2	33.3	43.8	38.8	40.2	.0	38.7	39.4
S	1.2	7.9	5.1	.4	.0	.0		14.6	9.6	8.5	.0	13.2	21.9	17.3	.0	15.3	11.8
SW	.8	3.4	.9	.2	.0	.0		5.3	7.8	2.8	33.3	5.8	9.1	7.2	.0	3.3	3.5
W	.6	2.7	1.1	.2	.0	.0		4.6	9.0	2.5	.0	4.4	8.8	5.6	.0	3.1	3.3
NW	1.3	6.5	4.2	.5	*	.0		12.5	10.0	13.1	33.3	12.9	12.7	13.5	.0	11.5	11.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.4							4.4	.0	3.0	.0	6.2	3.4	5.3	.0	4.1	4.3
TOT OBS	381	1418	1007	107	3	0	2916		9.6	495	3	504	465	470	0	486	493
TOT PCT	13.1	48.6	34.5	3.7	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.8	3.0	.4	*	.0		6.3	8.0	7.7	3.7	3.7	9.3
NE	2.3	1.7	.2	.0	.0		4.2	7.2	6.9	1.4	2.8	6.3
E	3.5	3.3	.4	.0	.0		7.2	7.7	10.0	4.5	4.4	9.6
SE	8.8	22.7	9.1	.4	.0		41.0	11.7	45.1	41.4	40.2	39.0
S	4.8	8.1	1.6	*	.0		14.6	9.6	8.5	17.4	17.3	13.5
SW	2.8	2.1	.3	*	.0		5.3	7.8	3.0	7.4	7.2	3.4
W	1.8	2.2	.5	*	.0		4.6	9.0	2.5	6.5	5.6	3.2
NW	3.9	6.6	1.9	.1	.0		12.5	10.0	13.2	12.8	13.5	11.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.4						4.4	.0	3.0	4.9	5.3	4.2
TOT OBS	1023	1453	422	18	0	2916		9.6	498	969	470	979
TOT PCT	35.1	49.8	14.5	.6	.0		100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1893-1972
(OVER-ALL) 1862-1972

AREA 0001 SOUTHEAST SUMATRA
3.7S 101.7E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.0	8.4	54.0	29.5	4.2	.0	.0	9.4	100.0	498
06&09	4.9	8.7	47.2	35.2	4.1	.0	.0	9.7	100.0	969
12&15	5.3	8.3	44.9	37.0	4.5	.0	.0	9.8	100.0	470
18&21	4.2	9.0	48.7	35.2	2.6	.3	.0	9.6	100.0	979
TOT	128	253	1418	1007	107	3	0	9.6		2916
PCT	4.4	8.7	48.6	34.5	3.7	.1	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	1.6	1.0	1.6		6.0
NE	.0	.0	1.6	.0		6.0
E	.0	3.6	1.6	2.1		5.3
SE	.0	23.4	27.6	17.7		5.7
S	2.1	.0	3.6	1.0		4.7
SW	.0	.0	2.1	.0		6.0
W	.0	.0	1.6	2.1		7.5
NW	.0	.5	2.6	.5		6.7
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	2.1		8.0
TOT OBS	1	14	20	13	48	5.8
TOT PCT	2.1	29.2	41.7	27.1	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	
E	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0	5.2	
SE	.0	.0	.0	2.1	10.9	4.2	.0	.0	.0	.0	51.6	
S	.0	.0	.0	.0	1.6	.0	.0	.0	.0	.0	5.2	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	
W	.0	.0	.0	2.1	.0	1.6	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	3.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	
TOT OBS	0	0	1	2	7	3	0	0	0	0	35	48
TOT PCT	.0	.0	2.1	4.2	14.6	6.3	.0	.0	.0	.0	72.9	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >2000	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
* OR >1000	18.8	18.8	20.8	20.8	20.8	20.8	20.8	20.8
* OR >600	20.8	20.8	25.0	25.0	25.0	25.0	25.0	25.0
* OR >300	20.8	22.9	27.1	27.1	27.1	27.1	27.1	27.1
* OR >150	20.8	22.9	27.1	27.1	27.1	27.1	27.1	27.1
* OR > 0	20.8	22.9	27.1	27.1	27.1	27.1	27.1	27.1
TOTAL	10	11	13	13	13	13	13	13

TOTAL NUMBER OF OBS: 48 PCT FREQ NH <5/8: 72.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
2.1	6.3	20.8	18.8	25.0	6.3	10.4	2.1	8.3	.0	48

PERIOD: (PRIMARY) 1893-1972
(OVER-ALL) 1862-1972

AREA 0001 SOUTHEAST SUMATRA
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	1.6	.0	.0	.0	.0	.0	.0	1.6	.0	1.6	4.8	
	NO PCP	.0	.0	.0	.0	.0	.0	1.6	.0	.0	.0	1.6	
	TOT %	1.6	.0	.0	.0	.0	.0	1.6	1.6	.0	1.6	6.5	
5<10	PCP	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	1.6	
	NO PCP	.0	.0	.8	7.3	.0	1.6	.0	1.6	.0	.0	11.3	
	TOT %	.0	.0	2.4	7.3	.0	1.6	.0	1.6	.0	.0	12.9	
10+	PCP	1.2	.0	.0	.0	.0	.0	.8	2.8	.0	.0	4.8	
	NO PCP	2.0	1.2	4.0	53.2	6.9	3.2	1.2	4.0	.0	.0	75.8	
	TOT %	3.2	1.2	4.0	53.2	6.9	3.2	2.0	6.9	.0	.0	80.6	
	TOT OBS												62
	TOT PCT	4.8	1.2	6.5	60.5	6.9	4.8	3.6	10.1	.0	1.6	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.2	.0	.0	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
1/2<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	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.3	.1	.0	.0	.0	.0		.4	
	22+	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	TOT %	.0	.0	.0	.5	.1	.0	.0	.0	.0	.0	.6	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.1	.2	.0	.7	.2	.1	.2	.3	.0		1.8	
	11-21	.2	.0	.0	.4	.2	.2	.0	.2	.0		1.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.2	.0	1.1	.4	.3	.2	.5	.0	.2	3.1	
5<10	0-3	.0	.0	.0	.1	.1	.6	.0	.2	.0	.2	1.2	
	4-10	.5	.4	.8	3.8	.6	.4	.1	.5	.0		7.1	
	11-21	.1	.0	.3	2.6	1.0	.2	.0	.3	.0		4.5	
	22+	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	TOT %	.6	.4	1.1	6.7	1.7	1.2	.1	1.0	.0	.2	12.9	
10+	0-3	1.2	.4	.9	2.5	.6	.6	.1	.3	.0	2.5	9.2	
	4-10	2.1	2.9	4.2	16.5	9.0	3.3	1.3	3.0	.0		42.4	
	11-21	.2	.2	1.0	20.3	5.6	.7	.2	1.0	.0		29.2	
	22+	.0	.0	.0	1.7	.3	.0	.0	.2	.0		2.2	
	TOT %	3.5	3.6	6.1	41.1	15.3	4.6	1.6	4.6	.0	2.5	82.9	
	TOT OBS												910
	TOT PCT	4.5	4.5	7.2	49.4	17.5	6.1	1.9	6.0	.0	2.9	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1893-1972
(OVER-ALL) 1862-1972

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	6.3	6.3	12.5	6.3	.0	.0	.0	.0	31.3	68.8	16
06E09	.0	.0	.0	.0	10.0	5.0	.0	.0	.0	.0	15.0	85.0	20
12E15	.0	.0	.0	.0	.0	16.7	.0	.0	.0	.0	16.7	83.3	6
18E21	.0	.0	.0	16.7	50.0	.0	.0	.0	.0	.0	66.7	33.3	6
TOT	0	0	1	2	7	3	0	0	0	0	13	35	48
PCT	.0	.0	2.1	4.2	14.6	6.3	.0	.0	.0	.0	27.1	72.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.0	.0	.0	4.2	15.8	80.0	95
06E09	.0	.0	.0	.6	11.2	88.2	170
12E15	.0	1.2	1.2	1.2	13.3	83.1	83
18E21	.6	.0	1.2	6.1	13.5	78.5	163
TOT	1	1	3	16	67	423	511
PCT	.2	.2	.6	3.1	13.1	82.8	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	6.3	12.5	18.8	68.8	16
06E09	.0	.0	5.0	10.0	85.0	20
12E15	.0	.0	.0	16.7	83.3	6
18E21	.0	.0	16.7	50.0	33.3	6
TOT	0	1	4	9	35	48
PCT	.0	2.1	8.3	18.8	72.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.0	2.4	.0	.0	1	2.4
80/84	.0	.0	.0	.0	.0	34.1	39.0	2.4	31	75.6
75/79	.0	.0	.0	.0	2.4	2.4	12.2	4.9	9	22.0
TOTAL	0	0	0	0	1	16	21	3	41	100.0
PCT	.0	.0	.0	.0	2.4	39.0	51.2	7.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	2.4	.0	.0	.0	.0	.0	.0
	3.0	1.8	5.5	56.7	3.0	2.4	1.8	1.2	.0	.0
	.0	.0	2.4	7.3	2.4	.0	2.4	4.9	.0	2.4
	3.0	1.8	7.9	66.5	5.5	2.4	4.3	6.1	.0	2.4

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	91	87	85	80	76	74	72	80.4	490
06E09	92	90	87	82	78	75	74	82.4	948
12E15	90	86	85	82	77	75	74	81.4	460
18E21	91	86	84	80	76	74	72	80.0	968
TOT	92	88	86	81	77	75	72	81.1	2866

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	.0	23.1	69.2	7.7	83	13
06E09	.0	.0	5.9	58.8	35.3	.0	77	17
12E15	.0	.0	.0	20.0	40.0	40.0	85	5
18E21	.0	.0	.0	28.6	71.4	.0	82	7
TOT	0	0	1	16	22	3	81	42

SEPTEMBER

PERIOD: (PRIMARY) 1893-1972
(OVER-ALL) 1862-1972

AREA 0001 SOUTHEAST SUMATRA
3.7S 101.7E

TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
4	.0	.0	.0	1.9	1	.0	1.9
3	.0	.0	1.9	1.9	2	.0	3.8
1	.0	.0	7.7	.0	4	.0	7.7
0	.0	5.8	11.5	.0	9	.0	17.3
-1	.0	5.8	19.2	.0	13	.0	25.0
-2	.0	13.5	11.5	.0	13	.0	25.0
-3	.0	7.7	.0	.0	4	.0	7.7
-4	.0	3.8	1.9	.0	3	.0	5.8
-5	1.9	1.9	.0	.0	2	.0	3.8
-6	1.9	.0	.0	.0	1	.0	1.9
TOTAL	2	20	28	2	52	0	52
PCT	3.8	38.5	53.8	3.8	100.0		100.0

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

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

N

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

NE

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

E

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

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	12.5	.0	.0	.0	.0	12.5
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	50.0	.0	.0	50.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	12.5	.0	50.0	.0	.0	62.5

PERIOD: (OVER-ALL) 1949-1972 SEPTEMBER AREA 0001 SOUTHEAST SUMATRA

TABLE 18 (CONT) 3.7S 101.7E

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	37.5	.0	.0	.0	.0	37.5
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	37.5	.0	.0	.0	.0	37.5

SW

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

W

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

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	50.0	.0	.0	.0	.0	50.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	50.0	.0	.0	50.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								2
TOT PCT	.0	50.0	.0	50.0	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1972 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	4.4	4.4	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	3
6-7	.0	.0	15.6	24.4	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	4
8-9	.0	.0	.0	8.9	28.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	7
10-11	.0	.0	.0	2.2	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	7
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	.0	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
TOTAL	0	2	9	18	13	1	0	0	0	0	0	0	0	0	0	0	0	0	0	45	5
PCT	.0	4.4	20.0	40.0	33.3	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1891-1968
(OVER-ALL) 1860-1968

AREA 0001 SOUTHEAST SUMATRA
3.7S 101.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	23.1	15.4	.0	.0	.0	.0	.0	38.5	.0	.0	.0	.0	.0	.0	.0	61.5
NE	23.5	.0	.0	.0	.0	.0	.0	23.5	.0	.0	.0	.0	.0	.0	.0	76.5
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	5.7	.0	.0	.0	.0	.0	.0	5.7	5.7	14.3	.0	.0	.0	.0	.0	77.1
S	20.8	.0	.0	.0	.0	.0	.0	20.8	-	.0	.0	.0	.0	.0	.0	79.2
SW	12.5	.0	.0	.0	.0	.0	.0	12.5	.0	.0	.0	.0	.0	.0	.0	87.5
W	14.8	.0	.0	.0	.0	.0	.0	14.8	.0	.0	.0	.0	.0	.0	.0	85.2
NW	31.7	4.9	.0	.0	.0	.0	.0	36.6	19.5	.0	.0	.0	.0	.0	.0	43.9
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	50.0	.0	.0	.0	.0	.0	.0	50.0
TOT PCT	13.1	1.2	.0	.0	.0	.0	.0	14.3	6.0	6.0	.0	.0	.0	.0	.0	75.0
TOT OBS:	84															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	16.7	.0	.0	.0	.0	.0	.0	16.7	12.5	4.2	.0	.0	.0	.0	.0	66.7
06&09	12.5	.0	.0	.0	.0	.0	.0	12.5	4.2	.0	.0	.0	.0	.0	.0	83.3
12&15	5.3	.0	.0	.0	.0	.0	.0	5.3	5.3	10.5	.0	.0	.0	.0	.0	78.9
18&21	16.7	5.6	.0	.0	.0	.0	.0	22.2	5.6	11.1	.0	.0	.0	.0	.0	66.7
TOT PCT	12.9	1.2	.0	.0	.0	.0	.0	14.1	7.1	5.9	.0	.0	.0	.0	.0	74.1
TOT OBS:	85															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.3	4.6	1.6	.1	.0	.0		7.5	7.9	9.2	.0	6.4	4.0	5.7	.0	9.1	10.9
NE	1.1	3.4	.7	*	.0	.0		5.2	6.6	8.1	.0	2.5	.8	4.4	33.3	8.2	7.0
E	1.2	3.9	1.5	.2	*	.0		6.8	7.8	10.0	.0	6.3	1.2	5.5	.6.7	7.3	9.8
SE	2.2	14.2	12.8	1.6	.1	.0		30.9	11.0	34.8	.0	32.9	28.4	29.8	16.7	29.7	29.6
S	2.0	7.4	4.3	.5	.0	.0		14.3	9.4	9.8	.0	16.5	21.4	17.2	.0	13.1	10.3
SW	1.1	4.3	.6	.1	.0	.0		6.0	6.7	3.0	.0	5.4	11.4	7.7	16.7	4.6	4.4
W	1.6	4.7	1.5	.1	.0	.0		7.9	7.6	5.1	100.0	7.0	13.8	10.9	16.7	5.4	5.2
NW	1.7	8.6	5.0	.5	*	.0		15.9	9.6	15.2	.0	17.5	15.8	14.9	.0	16.5	15.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.5							5.5	.0	5.0	.0	7.6	3.3	4.0	.0	5.9	7.1
TOT OBS	372	1655	906	102	4	0	3239		8.7	564	1	565	516	528	3	528	534
TOT PCT	17.7	51.1	28.0	3.1	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.6	3.3	.6	*	.0		7.5	7.9	9.2	5.2	5.6	10.0
NE	3.2	1.8	.2	.0	.0		5.2	6.6	8.1	1.7	4.5	7.6
E	3.7	2.5	.4	.1	.0		6.8	7.8	10.0	3.8	5.6	8.6
SE	8.9	15.5	6.2	.4	.0		30.9	11.0	34.7	30.8	29.8	29.7
S	5.1	7.2	1.8	.1	.0		14.3	9.4	9.7	17.8	17.1	11.7
SW	3.7	2.0	.3	.0	.0		6.0	6.7	3.0	8.3	7.8	4.5
W	3.9	3.5	.4	*	.0		7.9	7.6	5.2	10.2	10.9	5.3
NW	5.6	8.1	2.0	.2	.0		15.9	9.6	15.1	16.7	14.8	16.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.5						5.5	.0	5.0	5.6	4.0	6.5
TOT OBS	1400	1427	386	26	0	3239		8.7	565	1081	531	1062
TOT PCT	43.2	44.1	11.9	.8	.0		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1891-1968
(OVER-ALL) 1860-1968

AREA 0001 SOUTHEAST SUMATRA
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	5.0	13.3	50.1	23.8	2.8	.0	.0	8.6	100.0	565
06&09	5.6	12.1	51.2	27.9	3.1	.1	.0	8.7	100.0	1081
12&15	4.0	12.4	53.9	26.4	3.4	.0	.0	8.5	100.0	531
18&21	6.5	11.6	50.1	28.3	3.2	.3	.0	8.8	100.0	1062
TOT	178	395	1654	906	102	4	0	8.7		3239
PCT	5.5	12.2	51.1	28.0	3.1	.1	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	2.0	3.1		7.0
NE	.0	.0	2.0	.0		6.8
E	.0	2.3	.8	2.7		5.9
SE	3.1	3.9	25.4	11.3		6.0
S	.0	1.6	8.2	8.6		6.9
SW	.0	.0	1.6	.3		7.3
W	.0	1.6	2.7	1.6		5.7
NW	.0	.0	2.7	12.5		7.5
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	1.6		8.0
TOT OBS	2	6	29	27	64	6.5
TOT PCT	3.1	9.4	45.3	42.2	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	1.2	2.0	.0	.0	.0	.0	2.0	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	
E	.0	.0	.0	1.6	.8	.0	1.2	.0	.0	.0	2.3	
SE	.0	.8	.0	.0	10.2	5.5	.4	.0	.0	.0	27.0	
S	.0	3.5	.0	1.2	.0	2.3	.0	.0	.0	.0	11.3	
SW	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	1.6	
W	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	4.3	
NW	.0	.0	.0	3.1	3.5	2.7	1.6	.0	.0	.0	4.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	0	3	0	6	10	8	2	0	0	0	35	64
TOT PCT	.0	4.7	.0	9.4	15.6	12.5	3.1	.0	.0	.0	54.7	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
* OR >2000	10.8	15.4	15.4	15.4	15.4	15.4	15.4	15.4
* OR >1000	20.0	30.8	30.8	30.8	30.8	30.8	30.8	30.8
* OR >600	23.1	38.5	41.5	41.5	41.5	41.5	41.5	41.5
* OR >300	23.1	38.5	41.5	41.5	41.5	41.5	41.5	41.5
* OR >150	23.1	40.0	46.2	46.2	46.2	46.2	46.2	46.2
* OR > 0	23.1	40.0	46.2	46.2	46.2	46.2	46.2	46.2
TOTAL	15	26	30	30	30	30	30	30

TOTAL NUMBER OF OBS: 65 PCT FREQ NH <5/8: 53.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
3.0	3.0	18.2	19.7	10.6	9.1	12.1	6.1	18.2	.0	66

OCTOBER

PERIOD: (PRIMARY) 1891-1968
(OVER-ALL) 1860-1968

AREA 0001 SOUTHEAST SUMATRA
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.3	1.8	.3	1.2	1.2	.0	.0	4.8	
2<5	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.3	1.8	.3	1.2	1.2	.0	.0	4.8	
	PCP	.9	1.2	.0	.9	1.5	.0	.0	2.7	.0	.0	7.1	
5<10	NO PCP	.9	.0	.6	6.3	3.6	.3	1.2	1.5	.0	2.4	16.7	
	TOT %	1.8	1.2	.6	7.1	5.1	.3	1.2	4.2	.0	2.4	23.8	
	PCP	.6	.0	.0	1.2	.0	.0	.0	.6	.0	.0	2.4	
10+	NO PCP	1.5	3.9	8.0	33.0	8.9	1.8	5.7	6.3	.0	.0	69.0	
	TOT %	2.1	3.9	8.0	34.2	8.9	1.8	5.7	6.8	.0	.0	71.4	
	TOT OBS												84
	TOT PCT	3.9	5.1	8.6	41.7	15.8	2.4	8.0	12.2	.0	2.4	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.4	.1	.0		.5	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.4	.1	.0	.0	.5	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.1	.0	.0	.0	.0	.2	.0	.1	.0		.3	
	11-21	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.0	.0	.2	.0	.2	.0	.1	.0	.0	.5	
	0-3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
1<2	4-10	.0	.0	.0	.0	.0	.2	.0	.0	.0		.2	
	11-21	.0	.0	.0	.1	.1	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.0	.0	.1	.1	.2	.0	.0	.0	.0	.5	
	0-3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	
2<5	4-10	.1	.1	.6	1.1	.3	*	.2	.4	.0		2.8	
	11-21	.0	.0	.0	.5	.3	.1	.4	.5	.0		1.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.6	.1	.6	1.7	.6	.1	.6	.9	.0	.0	5.1	
	0-3	.2	.0	.2	.4	.0	.0	.0	.1	.0	1.0	2.0	
5<10	4-10	1.1	.6	.4	2.8	1.2	.6	1.2	1.3	.0		9.4	
	11-21	.2	.1	.1	2.3	1.6	.0	.0	1.4	.0		5.6	
	22+	.0	.0	.0	.1	.3	*	.2	.0	.0		.7	
	TOT %	1.5	.7	.7	5.7	3.1	.6	1.4	2.8	.0	1.2	17.7	
	0-3	.8	1.2	1.4	2.2	3.1	1.2	1.1	1.9	.0	4.0	16.7	
10+	4-10	2.2	3.3	4.6	13.7	7.7	2.7	3.8	5.3	.0		43.2	
	11-21	.8	.3	.6	7.7	2.5	.1	.6	2.2	.0		14.9	
	22+	.0	.0	.1	.6	.0	.0	.0	.2	.0		.8	
	TOT %	3.8	4.8	6.7	24.2	13.2	4.0	5.4	9.6	.0	4.0	75.7	
	TOT OBS												604
	TOT PCT	6.1	5.6	8.1	31.7	17.1	5.0	7.8	13.5	.0	5.1	100.0	

OCTOBER

PERIOD: (PRIMARY) 1891-1968
(OVER-ALL) 1360-1968

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	.0	13.6	22.7	4.5	.0	.0	.0	.0	40.9	59.1	22
06E09	.0	14.3	.0	.0	.0	14.3	.0	.0	.0	.0	28.6	71.4	14
12E15	.0	.0	.0	25.0	6.3	6.3	12.5	.0	.0	.0	50.0	50.0	16
18E21	.0	7.1	.0	.0	28.6	28.6	.0	.0	.0	.0	64.3	35.7	14
TOT	0	3	0	7	10	8	2	0	0	0	30	36	66
PCT	.0	[illegible]	.0	10.6	15.2	12.1	3.0	.0	.0	.0	45.5	54.5	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
00E03	.9	.9	.9	8.6	14.7	74.1	116
06E09	.5	.0	.5	2.1	9.7	87.2	195
12E15	1.0	1.0	.0	4.0	22.0	72.0	100
18E21	.0	.5	.5	6.7	25.3	67.0	194
TOT	3	3	3	31	107	458	605
PCT	.5	.5	.5	5.1	17.7	75.7	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	.0	13.6	27.3	59.1	22
06E09	.0	14.3	14.3	14.3	71.4	14
12E15	.0	.0	25.0	25.0	50.0	16
18E21	.0	7.7	7.7	61.5	30.8	13
TOT	0	3	10	20	35	65
PCT	.0	4.6	15.4	30.8	53.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	.0	33.3	35.1	3.5	41	71.9
75/79	.0	.0	.0	.0	.0	.0	12.3	8.8	12	21.1
70/74	.0	.0	.0	.0	.0	.0	1.8	5.3	4	7.0
TOTAL	0	0	0	0	0	19	28	10	57	100.0
PCT	.0	.0	.0	.0	.0	33.3	49.1	17.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.9	.0	5.7	39.0	9.6	1.8	3.5	7.9	.0	3.5
	3.5	2.2	1.8	.0	1.8	.0	3.1	8.8	.0	.0
	1.3	.0	.0	3.9	1.3	.0	.0	.4	.0	.0
	5.7	2.2	7.5	43.0	12.7	1.8	6.6	17.1	.0	3.5

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	89	87	84	81	76	74	73	80.3	536
06E09	93	89	87	82	78	75	73	82.5	1060
12E15	94	87	85	81	76	74	72	81.0	524
18E21	88	86	83	80	76	73	70	79.8	1043
TOT	94	88	86	81	76	74	70	81.0	3183

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	.0	25.0	45.0	30.0	85	20
06E09	.0	.0	.0	53.8	38.5	7.7	79	13
12E15	.0	.0	.0	15.4	76.9	7.7	83	13
18E21	.0	.0	.0	41.7	41.7	16.7	81	12
TOT	0	0	0	19	29	10	82	58

OCTOBER

PERIOD: (PRIMARY) 1891-1968
(OVER-ALL) 1860-1968

TABLE 17

AREA 0001 SOUTHEAST SUMATRA
3.7S 101.6E

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
4	.0	.0	.0	1.3	1	.0	1.3
3	.0	.0	1.3	.0	1	.0	1.3
2	.0	.0	2.6	.0	2	.0	2.6
1	.0	.0	7.7	.0	6	.0	7.7
0	.0	2.6	20.5	.0	18	.0	23.1
-1	.0	1.3	15.4	.0	13	.0	16.7
-2	1.3	7.7	11.5	.0	16	.0	20.5
-3	.0	5.1	2.6	.0	6	.0	7.7
-4	1.3	5.1	2.6	.0	7	.0	9.0
-5	1.3	3.8	.0	.0	4	.0	5.1
-6	1.3	1.3	.0	.0	2	.0	2.6
-7/-8	.0	2.6	.0	.0	2	.0	2.6
TOTAL	4	23	50	1	78	0	77
PCT	5.1	29.5	64.1	1.3	100.0		100.0

PERIOD: (OVER-ALL) 1963-1968

TABLE 13

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	25.0	.0	.0	.0	.0	25.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	25.0	.0	.0	.0	.0	25.0

NE

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

E

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

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	33.3	.0	.0	.0	.0	33.3
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	33.3	.0	.0	.0	33.3
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	33.3	33.3	.0	.0	.0	66.7

PERIOD: (OVER-ALL) 1963-1968 OCTOBER AREA 0001 SOUTHEAST SUMATRA

TABLE 18 (CONT) 3.7S 101.6E

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-85	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-85	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-85	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	8.3	.0	.0	.0	.0	8.3	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-85	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	8.3	.0	.0	.0	.0	8.3	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	25.0	50.0	.0	.0	.0	.0	75.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	25.0	.0	.0	.0	25.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-85	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	25.0	50.0	25.0	.0	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1968 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-85	87+	TOTAL	MEAN HGT
<6	.0	5.0	5.0	1.7	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	4
6-7	.0	3.3	11.7	8.3	10.0	6.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	5
8-9	.0	.0	6.7	10.0	6.7	1.7	5.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	6
10-11	.0	1.7	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	4
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDEY	.0	3.3	3.3	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	3
TOTAL	0	8	16	15	12	5	3	1	0	0	0	0	0	0	0	0	0	0	0	60	5
PCT	.0	13.3	26.7	25.0	20.0	8.3	5.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1891-1971
(OVER-ALL) 1861-1971

AREA 0001 SOUTHEAST SUMATRA
3.7S 101.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA						
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	32.0	.0	.0	.0	.0	.0	.0	32.0	12.0	.0	.0	.0	.0	.0	.0	56.0
NE	66.7	.0	.0	.0	.0	.0	.0	66.7	.0	.0	.0	.0	.0	.0	.0	33.3
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	25.0	.0	.0	.0	.0	.0	75.0
SE	10.4	.0	5.2	.0	.0	.0	.0	10.4	5.2	1.3	.0	.0	.0	.0	.0	83.1
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SW	50.0	.0	.0	.0	.0	.0	.0	50.0	.0	.0	.0	.0	.0	.0	.0	50.0
W	44.7	.0	.0	.0	.0	.0	.0	44.7	7.9	.0	.0	.0	.0	.0	.0	47.4
NW	11.6	4.2	.0	.0	.0	.0	.0	15.8	14.7	.0	4.2	.0	.0	.0	.0	65.3
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	.0	50.0	.0	.0	.0	.0	.0	50.0
TOT PCT	17.6	1.4	1.4	.0	.0	.0	.0	18.9	8.1	2.7	1.4	.0	.0	.0	.0	68.9
TOT OBS:	74															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA						
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	11.8	5.9	.0	.0	.0	.0	.0	17.6	23.5	5.9	.0	.0	.0	.0	.0	52.9
06&09	14.3	.0	.0	.0	.0	.0	.0	14.3	.0	.0	3.6	.0	.0	.0	.0	82.1
12&15	11.8	.0	.0	.0	.0	.0	.0	11.8	5.9	5.9	.0	.0	.0	.0	.0	76.5
18&21	35.7	.0	7.1	.0	.0	.0	.0	35.7	7.1	.0	.0	.0	.0	.0	.0	57.1
TOT PCT	17.1	1.3	1.3	.0	.0	.0	.0	18.4	7.9	2.6	1.3	.0	.0	.0	.0	69.7
TOT OBS:	76															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.2	5.9	2.4	.3	.0	.0		9.8	8.6	12.7	.0	8.5	5.0	7.4	16.7	11.6	13.3
NE	1.0	3.4	.5	.0	.0	.0		5.0	6.5	9.1	.0	3.0	.6	3.3	.0	7.2	6.6
E	1.1	4.1	.6	.0	.0	.0		5.7	6.7	8.0	50.0	3.2	1.9	4.5	8.3	7.7	8.8
SE	2.3	10.8	5.3	.5	*	.0		18.9	9.0	19.6	.0	22.6	18.1	16.6	8.3	18.0	18.5
S	1.7	6.4	2.1	.1	.0	.0		10.3	7.7	7.3	50.0	7.9	14.9	14.1	16.7	10.3	7.6
SW	1.2	4.5	.6	*	.0	.0		6.3	6.4	2.2	.0	4.9	10.6	9.2	.0	5.5	5.9
W	1.6	6.8	2.6	.2	.1	.0		11.3	8.6	7.9	.0	9.4	17.9	16.7	16.7	9.9	8.3
NW	2.1	13.1	9.5	1.5	*	.0		26.2	10.7	26.4	.0	30.8	26.6	25.5	33.3	23.3	24.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.5							6.5	.0	6.7	.0	9.6	4.4	4.7	.0	6.5	6.7
TOT OBS	570	1683	721	79	5	0	3058		8.2	504	2	541	560	487	6	510	508
TOT PCT	18.6	55.0	23.6	2.6	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.2	4.6	1.0	.0	.0		9.8	8.6	12.6	6.8	7.5	12.4
NE	2.9	2.0	.1	.0	.0		5.0	6.5	9.1	1.9	3.2	6.9
E	3.2	2.4	.1	.0	.0		5.7	6.7	8.2	2.6	4.6	8.3
SE	7.4	9.8	1.6	.2	.0		18.9	9.0	19.3	20.5	16.5	18.2
S	5.1	4.6	.6	.0	.0		10.3	7.7	7.3	11.2	14.1	9.0
SW	3.9	2.3	.1	.0	.0		6.3	6.4	2.2	7.7	9.1	5.7
W	5.4	4.7	.9	.2	.0		11.3	8.6	7.9	13.5	16.7	9.1
NW	7.2	14.0	4.8	.2	.0		26.2	10.7	26.3	28.8	25.6	23.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	6.5						6.5	.0	6.7	7.3	4.7	6.6
TOT OBS	1398	1359	282	19	0	3058		8.2	506	1041	493	1018
TOT PCT	45.7	44.4	9.2	.6	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	6.7	14.4	54.5	21.9	2.0	.4	.0	7.7	100.0	506
06&09	7.1	11.2	54.2	25.6	1.9	.0	.0	8.3	100.0	1041
12&15	4.7	13.2	54.4	25.6	2.0	.2	.0	8.4	100.0	493
18&21	6.6	11.5	56.5	21.4	3.8	.2	.0	8.2	100.0	1018
TOT	198	372	1683	721	79	5	0	8.2		3058
PCT	6.5	12.2	55.0	23.6	2.6	.2	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	2.2	1.6		7.4
NE	.0	.0	.0	2.2		8.0
E	.0	.0	1.6	1.6		7.5
SE	.0	4.3	20.7	4.9		6.5
S	.0	.0	3.8	2.2		7.0
SW	.0	.0	2.2	.0		6.0
W	.0	.0	1.6	8.2		7.5
NW	2.2	.0	13.6	22.8		7.1
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	4.3		8.0
TOT OBS	1	2	21	22	46	7.0
TOT PCT	2.2	4.3	45.7	47.8	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	2.2	
NE	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	
E	.0	.0	.0	.0	.0	1.6	.0	.0	.0	.0	1.6	
SE	.0	.0	.0	.0	13.0	5.4	.0	.0	.0	.0	11.4	
S	.0	.0	.0	.0	.0	1.6	.0	.0	.0	.0	4.3	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	
W	.0	.0	.0	1.6	4.9	.0	.0	.0	.0	.0	3.3	
NW	.0	.0	.0	1.1	6.0	4.3	4.3	.0	.0	.0	22.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	
TOT OBS	0	0	1	2	11	6	2	0	0	0	24	46
TOT PCT	.0	.0	2.2	4.3	23.9	13.0	4.3	.0	.0	.0	52.2	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
* OR >2000	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4
* OR >1000	23.9	39.1	41.3	41.3	41.3	41.3	41.3	41.3
* OR >600	26.1	41.3	45.7	45.7	45.7	45.7	45.7	45.7
* OR >300	26.1	41.3	47.8	47.8	47.8	47.8	47.8	47.8
* OR >150	26.1	41.3	47.8	47.8	47.8	47.8	47.8	47.8
* OR > 0	26.1	41.3	47.8	47.8	47.8	47.8	47.8	47.8
TOTAL	12	19	22	22	22	22	22	22

TOTAL NUMBER OF OBS: 46 PCT FREQ NH <5/8: 52.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
2.1	2.1	10.6	23.4	12.8	6.5	14.9	10.6	14.9	.0	47

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	1.4	1.4	.0	.0	2.7	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	1.4	1.4	.0	.0	2.7	
2<5	PCP	2.7	1.4	.0	.0	.0	1.4	3.4	2.0	.0	.0	10.8	
	NO PCP	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	1.4	
	TOT %	2.7	1.4	.0	.0	1.4	1.4	3.4	2.0	.0	.0	12.2	
5<10	PCP	.0	.0	.0	2.7	.0	.0	1.0	.3	.0	.0	4.1	
	NO PCP	3.4	.7	1.0	7.1	1.4	.0	5.4	8.1	.0	.0	27.0	
	TOT %	3.4	.7	1.0	9.8	1.4	.0	6.4	8.4	.0	.0	31.1	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	1.4	
	NO PCP	2.4	.0	3.0	16.2	6.4	1.4	1.7	18.9	.0	2.7	52.7	
	TOT %	2.4	.0	3.0	16.2	6.4	1.4	1.7	20.3	.0	2.7	54.1	
	TOT OBS												74
	TOT PCT	8.4	2.0	4.1	26.0	9.1	2.7	12.8	32.1	.0	2.7	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.1	.0	.0	.0	.0	.0	.0	.1	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.0	.0	.0	.2	.2	.0	.1	.3	.0		.9	
	11-21	.1	.0	.1	.1	.3	.0	.2	.4	.0		.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.0	.1	.3	.3	.0	.3	.7	.0	.2	1.9	
2<5	0-3	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
	4-10	.3	.2	.2	.4	.7	.3	.9	.6	.0		3.5	
	11-21	.3	.0	.0	.0	.0	.0	.3	.6	.0		1.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.2	.0		.2	
	TOT %	.6	.2	.2	.4	.7	.3	1.3	1.4	.0	.0	5.0	
5<10	0-3	.1	.4	.2	.6	.1	.1	.2	.4	.0	.3	2.4	
	4-10	1.4	1.3	.7	1.6	.9	.7	1.9	4.0	.0		12.5	
	11-21	.3	.2	.0	.7	.0	.3	.7	2.0	.0		4.3	
	22+	.0	.0	.0	.0	.0	.0	.1	.1	.0		.2	
	TOT %	1.8	1.9	.9	2.9	1.0	1.1	2.9	6.5	.0	.3	19.4	
10+	0-3	1.0	1.1	.7	1.4	.8	1.0	2.3	2.0	.0	3.6	14.0	
	4-10	6.0	3.0	2.2	7.3	4.9	4.9	4.8	12.9	.0		45.9	
	11-21	1.4	.0	.4	2.3	1.3	.3	1.3	6.4	.0		13.3	
	22+	.0	.0	.0	.1	.1	.0	.0	.0	.0		.2	
	TOT %	8.4	4.2	3.2	11.1	7.0	6.2	8.4	21.2	.0	3.6	73.5	
	TOT OBS												577
	TOT PCT	11.0	6.2	4.4	14.7	9.0	7.6	12.9	29.9	.0	4.2	100.0	

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	6.3	31.3	6.3	6.3	.0	.0	.0	50.0	50.0	16
06&09	.0	.0	.0	.0	28.6	14.3	7.1	.0	.0	.0	50.0	50.0	14
12&15	.0	.0	.0	12.5	25.0	.0	.0	.0	.0	.0	37.5	62.5	8
18&21	.0	.0	12.5	.0	.0	37.5	.0	.0	.0	.0	50.0	50.0	8
TOT	0	0	1	2	11	6	2	0	0	0	22	24	46
PCT	.0	.0	2.2	4.3	23.9	13.0	4.3	.0	.0	.0	47.8	52.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	1.1	3.2	5.4	17.2	73.1	93
06&09	.0	.0	1.5	2.0	14.8	81.6	196
12&15	.0	.0	1.0	6.8	25.2	67.0	103
18&21	.0	.0	2.1	6.9	23.4	67.6	188
TOT	0	1	11	29	115	424	580
PCT	.0	.2	1.9	5.0	19.8	73.1	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	18.8	37.5	43.8	16
06&09	.0	.0	.0	50.0	50.0	14
12&15	.0	.0	12.5	25.0	62.5	8
18&21	.0	12.5	12.5	37.5	50.0	8
TOT	0	1	5	18	23	46
PCT	.0	2.2	10.9	39.1	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
85/89	.0	.0	.0	.0	2.8	2.8	.0	.0	2	5.6
80/84	.0	.0	.0	.0	2.8	25.0	16.7	16.7	22	61.1
75/79	.0	.0	.0	.0	.0	.0	25.0	8.3	12	33.3
TOTAL	0	0	0	0	2	10	15	9	36	100.0
PCT	.0	.0	.0	.0	5.6	27.8	41.7	25.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	2.8	1.4	1.4	.0	.0	.0	.0
	.0	.0	2.1	20.8	6.3	1.4	4.2	26.4	.0	.0
	4.9	.0	2.1	6.3	.0	.0	4.2	16.0	.0	.0
	4.9	.0	4.2	29.9	7.6	2.8	8.3	42.4	.0	.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	91	86	84	80	76	74	70	80.1	503
06&09	95	89	87	82	77	74	72	82.2	1030
12&15	92	86	84	81	76	75	72	80.8	487
18&21	92	85	83	80	75	73	72	79.5	1010
TOT	95	87	85	81	76	74	70	80.7	3030

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	.0	6.7	66.7	26.7	87	15
06&09	.0	.0	20.0	60.0	.0	20.0	78	10
12&15	.0	.0	.0	40.0	40.0	20.0	83	5
18&21	.0	.0	.0	16.7	50.0	33.3	87	6
TOT	0	0	2	10	15	9	84	36

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TABLE 17

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

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
5	.0	.0	.0	1.4	1.4	2	.0	2.8
4	.0	.0	.0	2.8	1.4	3	.0	4.2
3	.0	.0	.0	5.6	1.4	5	.0	7.0
1	.0	.0	.0	4.2	1.4	4	.0	5.6
0	.0	.0	2.8	9.9	.0	9	.0	12.7
-1	.0	.0	4.2	15.5	.0	14	1.4	18.3
-2	.0	.0	4.2	5.6	.0	7	.0	9.9
-3	.0	.0	7.0	1.4	.0	6	.0	8.5
-4	.0	2.8	12.7	1.4	.0	12	.0	16.9
-5	.0	2.8	2.8	.0	.0	4	.0	5.6
-6	.0	1.4	.0	.0	.0	1	.0	1.4
-7/-8	.0	1.4	1.4	.0	.0	2	.0	2.8
-9/-10	.0	1.4	.0	.0	.0	1	.0	1.4
-11/-13	1.4	.0	.0	.0	.0	1	.0	1.4
TOTAL	1	7	25	34	4	71	1	70
PCT	1.4	9.9	35.2	47.9	5.6	100.0	1.4	98.6

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

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

N

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

NE

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

E

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

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	41.7	.0	.0	.0	41.7
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	41.7	.0	.0	.0	41.7

PERIOD: (OVER-ALL) 1963-1971

NOVEMBER

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TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	25.0	.0	.0	.0	25.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	25.0	.0	.0	.0	25.0

SW

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

W

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

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	33.3	.0	.0	.0	33.3	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	33.3	.0	.0	.0	33.3	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	100.0	.0	.0	.0	100.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								3
TOT PCT	.0	.0	100.0	.0	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	4.5	20.5	4.5	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	4
6-7	.0	2.3	15.9	13.6	9.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	5
8-9	.0	.0	2.3	9.1	4.5	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	6
10-11	.0	.0	2.3	.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	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	.0	.0	2.3	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
TOTAL	0	3	19	12	9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	44	4
PCT	.0	6.8	43.2	27.3	20.5	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1889-1970
(OVER-ALL) 1855-1970

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
N	13.6	.0	.0	.0	.0	.0	.0	13.6	13.6	.0	.0	.0	.0		.0	72.7
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	16.7	.0	16.7	.0	.0		.0	66.7
SE	.0	8.0	.0	.0	.0	.0	.0	8.0	.0	8.0	.0	.0	.0		.0	84.0
S	46.2	.0	.0	.0	.0	.0	.0	46.2	.0	.0	.0	.0	.0		.0	53.8
SW	87.5	.0	.0	.0	.0	.0	.0	87.5	.0	.0	.0	.0	.0		.0	12.5
W	13.5	15.4	.0	.0	.0	.0	.0	28.8	.0	.0	.0	.0	.0		.0	71.2
NW	13.6	5.2	.0	.0	.0	.0	.0	18.8	8.4	2.6	.0	.0	.0		.0	72.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0		.0	80.0
TOT PCT	12.6	5.7	.0	.0	.0	.0	.0	18.4	5.7	3.4	1.1	.0	.0		.0	72.4
TOT OBS:	87															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
00&03	18.2	9.1	.0	.0	.0	.0	.0	27.3	13.6	.0	4.5	.0	.0		.0	54.5
06&09	7.1	3.6	.0	.0	.0	.0	.0	10.7	3.6	.0	.0	.0	.0		.0	85.7
12&15	13.0	4.3	.0	.0	.0	.0	.0	17.4	4.3	4.3	.0	.0	.0		.0	73.9
18&21	17.6	5.9	.0	.0	.0	.0	.0	23.5	.0	11.8	.0	.0	.0		.0	70.6
TOT PCT	13.3	5.6	.0	.0	.0	.0	.0	18.9	5.6	3.3	1.1	.0	.0		.0	72.2
TOT OBS:	90															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.2	6.1	3.1	.6	*	.0		11.0	9.4	16.5	.0	10.2	5.6	6.4	.0	12.0	15.2
NE	1.0	3.2	.6	.0	.0	.0		4.8	6.1	8.1	.0	3.3	1.4	2.9	.0	6.8	6.2
E	1.8	2.4	.3	*	.0	.0		4.5	5.3	6.8	.0	3.2	2.1	3.1	.0	6.1	5.6
SE	1.9	5.3	1.3	*	.0	.0		8.6	6.8	9.0	.0	7.8	6.2	8.7	66.7	8.0	11.3
S	1.5	3.0	.5	*	.0	.0		5.7	6.0	3.2	.0	5.3	9.4	7.5	.0	5.2	3.4
SW	1.6	4.0	.9	*	*	.0		6.5	6.6	3.7	.0	5.1	10.6	9.8	.0	5.8	4.4
W	2.1	8.0	3.0	.5	.1	.0		13.7	8.6	8.5	.0	14.0	21.3	16.7	.0	13.0	9.2
NW	2.9	17.1	13.6	3.3	.2	.0		37.1	11.3	38.5	.0	42.2	38.0	35.8	33.3	32.8	35.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.1							8.1	.0	5.6	.0	8.9	5.3	9.2	.0	10.4	9.6
TOT OBS	676	1506	706	136	12	0	3036		8.3	517	0	516	505	502	3	492	501
TOT PCT	22.3	49.6	23.3	4.5	.4	.0		100.0		100.0	.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.5	5.1	1.3	.1	.0		11.0	9.4	16.5	7.9	6.4	13.6
NE	3.3	1.4	.1	.0	.0		4.8	6.1	8.1	2.4	2.9	6.5
E	3.3	1.1	.1	.0	.0		4.5	5.3	6.8	2.6	3.1	5.9
SE	4.9	3.3	.3	.0	.0		8.6	6.8	9.0	7.1	9.0	9.7
S	3.8	1.8	*	*	.0		5.7	6.0	3.2	7.3	7.4	4.3
SW	4.1	2.2	.2	*	.0		6.5	6.6	3.7	7.8	9.8	5.1
W	6.5	5.8	1.3	.2	*		13.7	8.6	8.5	17.6	16.6	11.1
NW	10.7	18.2	7.2	1.0	.0		37.1	11.3	38.5	40.1	33.7	34.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	8.1						8.1	.0	5.6	7.1	9.1	10.0
TOT OBS	1493	1179	321	42	1	3036		8.3	517	1021	505	993
TOT PCT	49.2	38.8	10.6	1.4	*		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1889-1970
(OVER-ALL) 1855-1970

AREA 0001 SOUTHEAST SUMATRA
3.7S 101.6E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	5.6	15.1	48.7	26.3	4.1	.2	.0	8.5	100.0	517
06&09	7.1	14.1	50.8	23.2	4.2	.5	.0	8.3	100.0	1021
12&15	9.1	14.7	48.5	22.2	5.5	.0	.0	8.3	100.0	505
18&21	10.0	13.4	49.3	22.3	4.4	.6	.0	8.2	100.0	993
TOT	247	429	1506	706	136	12	0	8.3		3036
PCT	8.1	14.1	49.6	23.3	4.5	.4	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	6.3	1.3		6.4
NE	.0	.4	.8	.0		5.0
E	1.7	2.9	1.7	2.9		4.7
SE	1.7	.0	3.8	3.8		6.2
S	.0	.0	2.9	.0		6.0
SW	.0	.0	.0	2.5		8.0
W	.0	5.0	6.3	5.8		6.1
NW	1.7	1.7	13.3	25.4		6.9
VAR	.0	.0	.0	.0		.0
CALM	1.7	.0	5.0	1.7		5.4
TOT OBS	4	6	24	26	60	6.3
TOT PCT	6.7	10.0	40.0	43.3	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	6.3	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.2	
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.2	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	
SW	.0	.0	.0	.0	2.5	.0	.0	.0	.0	.0	.0	
W	.0	1.7	1.7	1.7	5.8	.0	.0	.0	.0	.0	6.3	
NW	.0	.4	6.7	5.0	8.3	3.3	.0	.0	.0	.0	18.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.3	
TOT OBS	0	2	5	4	10	2	0	0	0	0	37	60
TOT PCT	.0	3.3	8.3	6.7	16.7	3.3	.0	.0	.0	.0	61.7	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >2000	3.3	4.9	4.9	4.9	4.9	4.9	4.9	4.9
* OR >1000	8.2	18.0	18.0	18.0	19.7	21.3	21.3	21.3
* OR >600	11.5	24.6	24.6	24.6	26.2	27.9	27.9	27.9
* OR >300	16.4	32.8	32.8	32.8	34.4	36.1	36.1	36.1
* OR >150	16.4	34.4	36.1	36.1	37.7	39.3	39.3	39.3
* OR > 0	16.4	34.4	36.1	36.1	37.7	39.3	39.3	39.3
TOTAL	10	21	22	22	23	24	24	24

TOTAL NUMBER OF OBS: 61 PCT FREQ NH <5/8: 60.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
2.9	5.8	13.0	21.7	15.9	5.8	10.1	7.2	17.4	.0	69

DECEMBER

PERIOD: (PRIMARY) 1889-1970
(OVER-ALL) 1855-1970

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.3	.9	.0	.0	.0	1.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.3	.9	.0	.0	.0	1.1	
1/2<1	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	
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	.9	.0	.0	.0	.6	.6	.0	1.4	.0	.0	3.4	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.9	.0	.0	.0	.6	.6	.0	1.4	.0	.0	3.4	
5<10	PCP	.0	.0	.0	1.1	1.1	.0	3.4	3.4	.0	.0	9.2	
	NO PCP	2.0	.0	2.0	7.2	.0	.3	2.3	9.2	.0	2.3	25.3	
	TOT %	2.0	.0	2.0	8.3	1.1	.3	5.7	12.6	.0	2.3	34.5	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	3.4	.0	.0	3.4	
	NO PCP	3.4	1.4	4.9	6.0	2.0	.0	8.3	26.7	.0	3.4	56.3	
	TOT %	3.4	1.4	4.9	6.0	2.0	.0	8.3	30.2	.0	3.4	59.8	
	TOT OBS												87
	TOT PCT	6.3	1.4	6.9	14.4	3.7	2.3	14.9	44.3	.0	5.7	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.2	.2	.0	.0		.3	
	11-21	.0	.0	.0	.0	.0	*	.1	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.2	.3	.0	.0	.0	.5	
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	.2	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.2	.0		.2	
	TOT %	.1	.1	.0	.0	.0	.2	.0	.2	.0	.0	.5	
1<2	0-3	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2	
	4-10	.0	.0	.0	.0	.0	.0	.1	.1	.0		.2	
	11-21	.2	.0	.0	.0	.0	.0	.2	.2	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.0	.0	.0	.0	.1	.3	.2	.0	.0	.8	
2<5	0-3	.1	.0	.0	.0	.0	.1	.1	*	.0	.0	.3	
	4-10	.2	.6	.0	.0	.0	.0	.3	.2	.0		1.3	
	11-21	.2	.1	.0	.0	.1	.1	.0	.3	.0		.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.2	.0		.2	
	TOT %	.6	.6	.0	.0	.1	.2	.4	.7	.0	.0	2.6	
5<10	0-3	.4	.2	.2	.2	.0	.0	.1	.4	.0	.8	2.3	
	4-10	.7	.5	.2	1.0	.4	.3	1.2	2.3	.0		6.6	
	11-21	.2	.0	.0	.5	.0	.0	.6	1.9	.0		3.2	
	22+	.0	.0	.0	.0	.0	.0	.1	.4	.0		.5	
	TOT %	1.3	.6	.4	1.7	.4	.3	2.0	5.1	.0	.8	12.6	
10+	0-3	1.0	1.8	2.7	1.5	1.8	1.8	2.6	2.2	.0	5.6	20.9	
	4-10	6.2	3.1	1.9	4.5	3.6	2.9	6.6	17.4	.0		46.1	
	11-21	2.5	.3	.2	.4	.2	.3	1.7	9.3	.0		14.8	
	22+	.1	.0	.0	.0	.0	.0	.0	1.2	.0		1.3	
	TOT %	9.7	5.2	4.8	6.4	5.5	5.0	10.8	30.1	.0	5.6	83.1	
	TOT OBS												621
	TOT PCT	11.9	6.5	5.2	8.1	6.0	5.8	13.8	36.3	.0	6.4	100.0	

DECEMBER

PERIOD: (PRIMARY) 1889-1970
(OVER-ALL) 1855-1970

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	5.3	5.3	10.5	10.5	5.3	.0	.0	.0	.0	36.8	63.2	19
06&09	.0	.0	5.0	5.0	20.0	5.0	.0	.0	.0	.0	35.0	65.0	20
12&15	.0	.0	5.9	.0	23.5	.0	.0	.0	.0	.0	29.4	70.6	17
18&21	.0	11.1	22.2	11.1	.0	11.1	.0	.0	.0	.0	55.6	44.4	9
TOT	0	2	5	4	10	3	0	0	0	0	24	41	65
PCT	.0	3.1	7.7	6.2	15.4	4.6	.0	.0	.0	.0	36.9	63.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.9	.0	.0	3.6	12.5	83.0	112
06&09	.0	.0	.5	.5	11.9	87.1	202
12&15	.0	2.7	.0	1.8	15.5	80.0	110
18&21	1.0	.0	2.0	4.5	12.0	80.5	200
TOT	3	3	5	16	79	518	624
PCT	.5	.5	.8	2.6	12.7	83.0	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	15.8	26.3	10.5	63.2	19
06&09	.0	5.0	10.0	25.0	65.0	20
12&15	.0	14.3	14.3	21.4	64.3	14
18&21	.0	37.5	50.0	12.5	37.5	8
TOT	0	9	13	11	37	61
PCT	.0	14.8	21.3	18.0	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
85/89	.0	.0	.0	.0	3.1	1.6	.0	.0	3	4.7
80/84	.0	.0	.0	.0	.0	17.2	45.3	.0	40	62.5
75/79	.0	.0	.0	.0	.0	1.6	15.6	14.1	20	31.3
70/74	.0	.0	.0	.0	.0	.0	.0	1.6	1	1.6
TOTAL	0	0	0	0	2	13	39	10	64	100.0
PCT	.0	.0	.0	.0	3.1	20.3	60.9	15.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	1.6	.0	.0	3.1
3.5	1.2	7.4	11.3	2.7	.4	7.4	25.4	.0	3.1
2.3	.0	1.2	.4	.0	.4	8.2	17.2	.0	1.6
.0	.0	.0	.0	.8	.8	.0	.0	.0	.0
5.9	1.2	8.6	11.7	3.5	1.6	17.2	42.6	.0	7.8

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	91	86	84	80	76	74	71	80.1	512
06&09	94	89	87	82	77	75	73	82.2	1000
12&15	90	87	84	81	77	75	74	80.9	498
18&21	88	86	83	80	76	74	73	79.8	985
TOT	94	88	85	81	76	75	71	80.8	2995

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	.0	13.6	63.6	22.7	86	22
06&09	.0	.0	11.1	27.8	50.0	11.1	80	18
12&15	.0	.0	.0	31.3	62.5	6.3	82	16
18&21	.0	.0	.0	10.0	70.0	20.0	87	10
TOT	0	0	2	14	40	10	83	66

DECEMBER

PERIOD: (PRIMARY) 1889-1970
(OVER-ALL) 1855-1970

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TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
9/10	.0	.0	1.3	.0	1	.0	1.3
7/8	.0	.0	1.3	.0	1	.0	1.3
6	.0	1.3	.0	.0	1	.0	1.3
4	.0	.0	1.3	1.3	2	.0	2.5
3	.0	.0	2.5	.0	2	.0	2.5
2	.0	.0	2.5	2.5	4	.0	5.0
1	.0	3.8	1.3	1.3	5	.0	6.3
0	.0	5.0	11.3	1.3	14	.0	17.5
-1	.0	2.5	11.3	1.3	12	.0	15.0
-2	.0	11.3	7.5	.0	15	1.3	17.5
-3	1.3	5.0	3.8	.0	8	.0	10.0
-4	.0	3.8	.0	.0	3	.0	3.8
-5	.0	5.0	.0	.0	4	.0	5.0
-6	.0	3.8	.0	.0	3	.0	3.8
-7/-8	2.5	.0	.0	.0	2	.0	2.5
-9/-10	2.5	.0	1.3	.0	3	.0	3.8
TOTAL	5		36			1	79
		33		6	80		
PCT	6.3	41.3	45.0	7.5	100.0	1.3	98.8

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	10.3	.0	.0	.0	.0	10.3
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	10.3	.0	.0	.0	.0	10.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	13.2	5.9	.0	.0	.0	19.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	5.9	5.9	.0	.0	.0	.0	11.8
1-2	.0	4.4	.0	.0	.0	.0	4.4
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	5.9	10.3	.0	.0	.0	.0	16.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	5.9	.0	.0	.0	.0	5.9
1-2	.0	7.4	5.9	.0	.0	.0	13.2
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	13.2	5.9	.0	.0	.0	19.1

PERIOD: (OVER-ALL) 1963-1970

DECEMBER

TABLE 18 (CONT)

AREA 0001 SOUTHEAST SUMATRA
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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

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

SW

1-3	4-10	11-21	22-33	34-47	48+	PCT
.0	.0	.0	.0	.0	.0	.0
.0	1.5	.0	.0	.0	.0	1.5
.0	.0	1.5	.0	.0	.0	1.5
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	1.5	1.5	.0	.0	.0	2.9

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	4.4	.0	.0	.0	.0	.0	4.4
1-2	.0	16.2	.0	.0	.0	.0	16.2
3-4	.0	.0	4.4	.0	.0	.0	4.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.4	16.2	4.4	.0	.0	.0	25.0

NW

1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
1.5	1.5	.0	.0	.0	.0	2.9	
.0	5.9	5.9	.0	.0	.0	11.8	
.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	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
1.5	7.4	5.9	.0	.0	.0	14.7	88.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	23.5	23.5	.0	.0	.0	.0	47.1	
1-2	.0	35.3	11.8	.0	.0	.0	47.1	
3-4	.0	.0	5.9	.0	.0	.0	5.9	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	23.5	58.8	17.6	.0	.0	.0	100.0	17

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.1	20.3	6.8	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	2
6-7	.0	5.1	11.9	8.5	5.1	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	5
8-9	.0	.0	3.4	5.1	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	5
10-11	.0	.0	.0	1.7	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	16.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	11	2
TOTAL	12	15	13	11	4	1	0	0	1	0	1	0	0	0	0	0	0	0	0	59	3
PCT	22.0	25.4	22.0	18.6	6.8	1.7	.0	.0	1.7	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

ANNUAL

PERIOD: (PRIMARY) 1889-1973
(OVER-ALL) 1854-1973

AREA 0001 SOUTHEAST SUMATRA
3.7S 101.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
N	12.0	1.3	.0	.0	.0	.0	.0	13.3	8.4	3.2	.0	.0	.0		.0	75.1
NE	15.7	1.3	2.4	.0	.0	.0	.0	19.4	4.2	3.6	.0	.0	.0		.0	74.1
E	4.4	4.3	2.8	.0	.0	.0	.0	11.4	3.2	4.1	1.4	.0	.0		.0	79.9
SE	2.7	2.3	1.4	.0	.0	.0	.0	6.0	2.0	4..	.0	.0	.9		.9	86.5
S	5.6	.9	.0	.0	.0	.0	.0	6.5	.0	1.7	.0	.0	.0		.0	91.8
SW	15.3	1.2	.0	.0	.0	.0	.0	16.5	3.8	1.0	.0	.0	.0		.0	78.7
W	18.0	2.6	.7	.0	.0	.0	.0	21.3	8.2	1.4	.0	.0	.0		.0	61.7
NW	16.7	4.9	2.1	.0	.0	.0	.0	23.7	10.5	.7	.4	.0	.0		.0	64.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	8.3	2.8	.0	.0	.0	.0	.0	11.1	4.2	9.6	.0	.0	.0		.0	75.1
TOT PCT	8.9	3.6	1.5	.0	.0	.0	.0	13.8	5..	3.6	.2	.0	.2		.2	77.5
TOT OBS:	821															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
00603	11.0	5.7	1.7	.0	.0	.0	.0	18.4	8.5	3.2	.4	.0	.0		.5	69.6
06609	7.0	2.3	.7	.0	.0	.0	.0	10.0	5.5	.0	.3	.0	.5		.0	83.7
12615	5.2	1.0	.0	.0	.0	.0	.0	6.2	1.8	5.1	.0	.0	.0		.0	86.9
18621	11.9	5.9	5.0	.0	.0	.0	.0	22.1	3.1	6.6	.0	.0	.0		.0	69.9
TOT PCT	8.7	3.7	1.6	.0	.0	.0	.0	14.0	5.1	3.5	.2	.0	.2		.2	77.5
TOT OBS:	841															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.5	5.6	1.8	.2	*	.0		9.1	7.9	13.2	11.1	8.2	3.9	5.8	6.6	10.8	12.9
NE	1.3	3.7	.5	*	.0	.0		5.5	6.1	9.4	.0	3.0	1.2	3.5	9.4	7.5	8.2
E	1.5	4.6	1.0	.1	*	.0		7.2	6.6	10.6	10.4	6.3	2.4	4.8	19.9	8.2	10.4
SE	2.5	11.9	7.1	.9	*	.0		22.5	8.5	23.7	16.0	24.1	20.7	22.1	17.9	22.0	22.1
S	1.8	5.9	2.0	.2	.0	.0		9.9	7.2	5.6	4.2	9.0	16.4	12.5	12.2	9.4	6.8
SW	1.3	3.8	.6	.1	*	.0		5.7	6.4	3.0	5.6	5.0	10.8	7.7	2.6	4.5	3.6
W	1.6	5.5	1.8	.3	*	.0		9.3	8.0	5.8	8.3	8.5	15.7	..3	12.3	7.6	6.1
NW	2.4	11.8	6.9	1.3	.1	.0		22.4	9.7	21.8	11.1	25.7	23.6	22.1	10.7	19.8	21.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.4							8.4	.0	6.9	.0	10.3	5.4	9.3	.0	10.2	6.6
TOT OBS							36695		7.8	6205	13	6336	5979	6025	35	5985	6138
TOT PCT	22.5	52.9	21.6	2.9	.1	.0		100.0		100.0	56.7	100.0	100.0	100.0	91.7	100.0	100.0

TABLE

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.5	3.9	.7	*	.0		9.1	7.9	13.2	6.1	5.8	11.8
NE	3.7	1.7	.1	*	.0		5.5	6.1	9.4	2.1	3.5	7.9
E	4.3	2.6	.?	*	.0		7.2	6.6	10.7	4.4	4.9	9.3
SE	8.9	10.9	3.1	.1	.0		22.5	8.5	23.7	22.4	22.1	22.0
S	5.1	4.2	.7	*	.0		9.9	7.2	5.6	12.6	12.5	8.1
SW	3.		.2	*	.0		5.7	6.4	3.0	7.8	7.6	4.0
W	4.6	3.8	.8	.1	*		9.3	8.3	5.8	12.0	12.3	6.6
NW	7.8	10.8	3.4	.3	*		22.4	9.7	21.8	24.7	22.0	20.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	8.4						8.4	.0	6.9	7.9	9.2	9.3
TOT OBS						36696		7.8	6218	12315	6040	12123
TOT PCT	90.4	39.7	9.2	.7	*		100.0		100.0	100.0	100.0	100.0

ANNUAL

PERIOD: (PRIMARY) 1889-1973
(OVER-ALL) 1854-1973

AREA 0001 SOUTHEAST SUMATRA
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	6.9	14.8	54.7	20.8	2.6	.1	.0	7.7	100.0	6218
06&09	7.9	14.2	52.6	22.2	2.9	.1	.0	7.9	100.0	12315
12&15	9.2	13.4	52.0	22.1	3.2	.1	.0	7.9	100.0	6040
18&21	9.3	13.7	52.6	21.2	2.9	.2	.0	7.7	100.0	12123
TOT								7.8		36696
PCT	8.4	14.0	52.9	21.6	2.9	.1	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.3	1.2	3.1	1.5		5.9
NE	.3	.1	2.1	.9		6.4
E	1.2	2.5	3.3	2.1		5.1
SE	2.0	6.6	15.2	6.1		5.5
S	.9	1.2	3.0	1.4		5.3
SW	.1	.7	1.9	1.2		6.3
W	.7	1.7	4.2	4.2		5.2
NW	.9	1.4	10.4	11.4		6.6
VAR	.0	.0	.0	.0		.0
CALM	.7	1.6	2.4	1.9		5.7
TOT OBS					528	5.9
TOT PCT	6.8	16.9	45.6	30.8	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.1	.0	.3	.7	.5	.2	.2	.1	.0	4.0	
NE	.0	.0	.3	.0	.8	.1	.0	.0	.2	.0	1.9	
E	.0	.0	.2	.3	.8	.4	.1	.0	.0	.0	7.3	
SE	.0	.3	.0	.7	5.0	2.6	.1	.0	.0	.0	21.1	
S	.0	.3	.0	.1	1.0	.6	.1	.0	.0	.0	4.4	
SW	.0	*	.2	.5	.7	.3	.0	.0	.0	.0	2.2	
W	.0	.3	.6	1.4	2.0	.4	.1	.0	.0	.0	6.0	
NW	.0	*	1.0	2.6	4.7	1.9	.8	.6	*	.0	12.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.8	.4	.0	.2	.0	.0	.0	5.3	
TOT OBS												528
TOT PCT	.0	1.1	2.3	6.7	16.0	6.7	1.6	.7	.4	.0	64.6	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.4	.4	.4	.4	.4	.4	.4	.4
* OR >5000	.9	1.1	1.1	1.1	1.1	1.1	1.1	1.1
* OR >3500	2.3	2.7	2.7	2.7	2.7	2.7	2.7	2.7
* OR >2000	7.0	9.0	9.3	9.4	9.4	9.4	9.4	9.4
* OR >1000	16.6	22.9	24.6	24.9	25.1	25.2	25.2	25.2
* OR >600	20.5	28.9	31.9	32.3	32.4	32.5	32.5	32.5
* OR >300	21.1	30.3	34.2	34.5	34.6	34.8	34.8	34.8
* OR >150	21.1	30.9	35.3	35.6	35.7	35.9	35.9	35.9
* OR > 0	21.1	30.8	35.3	35.6	35.7	35.9	35.9	35.9

TOTAL NUMBER OF OBS: 534

PCT FREQ NH <5/8: 64.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
2.9	8.7	20.5	17.5	14.7	9.3	8.3	5.5	12.7	.0	576

ANNUAL

PERIOD: (PRIMARY) 1869-1973
(OVER-ALL) 1854-1973

AREA 0001 SOUTHEAST SUMATRA
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	*	.1	.1	.0	.0	.2	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	*	.1	.1	.0	.0	.2	
	PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
1/2<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	
	PCP	.0	.0	.2	.0	.1	.0	.2	.1	.0	.0	.6	
1<2	NO PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.2	.2	.1	.0	.2	.1	.0	.0	.8	
	PCP	.4	.2	.9	.7	.2	.2	.7	1.6	.0	.3	5.2	
2<5	NO PCP	.0	.0	.0	*	.3	.1	.3	.2	.0	.0	.9	
	TOT %	.4	.2	.9	.7	.5	.3	1.0	1.8	0	.3	6.0	
	PCP	.2	.3	.3	1.3	.2	.1	.9	2.1	.0	.2	5.4	
5<10	NO PCP	1.7	.5	1.3	4.4	2.1	1.1	2.4	3.9	.0	.6	18.1	
	TOT %	1.9	.9	1.6	5.7	2.4	1.2	3.3	6.0	.0	.8	23.5	
	PCP	.2	.4	.2	.2	.0	.1	.3	.9	.0	.0	2.3	
10+	NO PCP	4.4	2.9	7.2	21.7	5.7	2.8	5.7	13.5	.0	3.8	67.1	
	TOT %	4.6	3.3	7.4	21.9	5.2	2.8	6.1	14.4	.0	3.8	69.4	
	TOT OBS												820
	TOT PCT	8.9	4.4	10.0	28.5	8.2	4.3	10.6	22.4	.0	4.7	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	*	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
<1/2	4-10	*	*	.0	*	*	*	*	*	.0		.1	
	11-21	.0	.0	.0	.0	.0	*	*	.0	.0		*	
	22+	*	.0	.0	.0	.0	.0	.0	*	.0		*	
	TOT %	*	*	.0	*	*	*	.1	.1	.0	.0	.2	
	0-3	.0	.0	.0	.0	.0	.0	*	*	.0	.0	*	
1/2<1	4-10	*	*	.0	*	*	*	*	*	.0		.1	
	11-21	*	.0	.0	*	.0	*	.0	*	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	*	*	.0		*	
	TOT %	*	*	.0	*	*	*	*	.1	.0	.0	.2	
	0-3	*	.0	.0	.0	.0	*	*	.0	.0	*	.1	
1<2	4-10	.1	*	*	*	*	.1	.1	.1	.0		.5	
	11-21	*	.0	*	*	*	*	.1	.1	.0		.3	
	22+	.0	.0	.0	*	.0	.0	*	.0	.0		*	
	TOT %	.1	*	*	.1	.1	.1	.2	.2	.0	*	.9	
	0-3	.1	.0	.1	.0	*	*	*	*	.0	.1	.3	
2<5	4-10	.2	.2	.2	.2	.1	.1	.2	.4	.0		1.5	
	11-21	.1	*	*	.2	.1	*	.1	.3	.0		.9	
	22+	.0	.0	.0	.0	.0	.0	*	.1	.0		.1	
	TOT %	.4	.2	.3	.4	.2	.1	.4	.8	.0	.1	2.9	
	0-3	.2	.1	.1	.2	.1	.2	.1	.3	.0	.5	1.9	
5<10	4-10	.9	.4	.4	1.4	.7	.4	.9	1.5	.0		6.7	
	11-21	.2	*	.1	1.1	.4	.1	.3	1.1	.0		3.2	
	22+	.0	*	*	.1	*	*	.1	.1	.0		.4	
	TOT %	1.3	.6	.7	2.8	1.2	.7	1.4	3.0	.0	.5	12.1	
	0	1.6	1.6	1.8	2.3	1.7	1.3	1.6	2.1	.0	5.8	19.8	
10+	4	4.9	2.5	4.1	11.2	5.8	4.3	4.5	10.3	.0		47.7	
	1.	1.1	.1	.5	8.6	1.5	.2	.9	4.5	.0		15.2	
	22	*	.0	*	.4	.1	.0	*	.4	.0		1.0	
	TOT <	7.6	5.2	6.4	20.6	9.1	4.8	7.0	17.2	.0	5.8	93.7	
	TOT OBS												7097
	TOT PCT	9.4	6.0	7.4	23.9	10.6	5.7	9.1	21.4	.0	6.4	100.0	

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PERIOD: (PRIMARY) 1889-1973
(OVER-ALL) 1634-1973

AREA 0001 SOUTHEAST SUMATRA
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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	1.1	2.7	8.1	17.5	4.2	1.0	.6	1.0	.0	36.3	63.7	185
06E09	.0	1.2	.8	3.5	10.8	7.9	1.5	1.0	.0	.0	26.7	73.3	172
12E15	.0	.0	1.5	6.9	12.5	5.7	1.8	.7	.0	.0	29.1	70.9	110
18E21	.0	2.6	3.8	11.0	17.7	8.4	1.8	.0	.0	.0	45.3	54.7	94
TOT PCT	.0	1.0	2.1	6.9	15.0	6.5	1.5	.7	.3	.0	34.0	66.0	561 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.2	.2	.9	4.0	12.3	82.4	1265
06E09	.1	.0	.6	.9	8.8	89.7	2322
12E15	.2	.6	.6	2.7	14.3	81.7	1218
18E21	.4	.2	1.3	4.4	14.6	79.1	2313
TOT PCT	.2	.2	.9	2.9	12.3	83.6	7118 100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	4.4	13.8	23.0	61.2	177
06E09	.0	2.0	6.9	20.7	72.4	167
12E15	.0	2.2	11.9	19.8	68.3	104
18E21	.0	11.2	29.7	25.5	44.8	86
TOT PCT	.0	3.9	14.0	22.9	63.1	334 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.0	.0	.2	.0	.0		.2
90/94	.0	.0	.0	.0	.7	.0	.0	.0		.7
85/89	.0	.0	.0	.0	1.9	3.9	.8	.3		6.9
80/84	.0	.0	.0	.0	1.7	28.3	38.4	4.2		72.6
75/79	.0	.0	.0	.0	.2	.8	10.4	7.5		18.8
70/74	.0	.0	.0	.0	.0	.0	.1	.6		.7
TOTAL PCT	.0	.0	.0	.0	4.5	33.1	49.8	12.6	463	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
	.1	.2	.2	.4	.0	.0	.0	.0	.0	.0
	.2	.0	.9	3.0	.6	.8	.5	.5	.0	.4
	3.2	1.7	6.6	25.4	4.9	3.3	7.9	16.1	.0	3.6
	1.4	1.3	1.6	2.6	.3	.5	3.5	6.4	.0	1.3
	.1	.0	.0	.3	.2	.1	.0	*	.0	.0
	5.0	3.0	9.2	31.6	6.0	4.6	11.9	23.0	.0	5.5

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	96	87	85	81	77	74	70	80.9	6120
06E09	97	90	87	83	79	76	72	83.0	12020
12E15	94	87	85	82	78	75	70	81.8	3927
18E21	92	86	84	81	76	74	70	80.4	11928
TOT	97	88	86	82	77	75	70	81.6	35995

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	.0	23.4	61.9	14.7	84	161
06E09	.0	.0	10.6	46.4	33.0	10.1	79	142
12E15	.0	.0	5.0	39.8	43.3	11.9	81	89
18E21	.0	.0	2.1	24.0	63.2	10.7	83	85
TOT	0	0	18	157	243	59	82	477

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PERIOD: (PRIMARY) 1889-1973
(OVER-ALL) 1854-1973

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TABLE 17

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

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.1	.0	.0	1	.0	.1
7/8	.0	.0	.0	.2	.0	.1	3	.0	.3
6	.0	.0	.1	.0	.2	.2	3	.0	.5
5	.0	.0	.0	.2	.2	.0	4	.0	.4
4	.0	.0	.0	.4	.5	.3	10	.0	1.3
3	.0	.0	.0	.8	.5	.0	10	.0	1.3
2	.0	.0	.0	2.0	1.6	.2	29	.0	3.8
1	.0	.0	.5	3.7	2.0	.0	45	.0	6.1
0	.0	.1	1.4	14.5	1.5	.0	136	.0	17.6
-1	.0	.0	2.6	16.8	.9	.0	146	.1	20.2
-2	.0	.3	6.3	14.9	.5	.0	160	.1	21.5
-3	.0	.1	3.7	4.0	.0	.0	60	.0	7.8
-4	.0	.9	6.5	3.7	.0	.0	85	.0	11.1
-5	.0	.8	2.6	.9	.0	.0	31	.0	3.9
-6	.0	.5	1.3	.0	.0	.0	15	.0	1.8
-7/-8	.0	.6	.9	.0	.0	.0	11	.0	1.5
-9/-10	.0	.3	.0	.1	.0	.0	4	.0	.4
-11/-13	.1	.0	.0	.0	.0	.0	1	.0	.1
TOTAL							754		
PCT	.1	3.5	26.0	61.6	7.9	.8	100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

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

N

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

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	8.3	.0	.0	.0	.0	.0	8.3
1-2	1.0	.0	.0	.0	.0	.0	1.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	9.4	.0	.0	.0	.0	.0	9.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.5	.0	.0	.0	.0	1.0
1-2	.0	.4	.0	.0	.0	.0	.4
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	1.3	.0	.0	.0	1.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	1.3	.0	.0	.0	2.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	5.2	.0	.0	.0	.0	5.2
1-2	.0	10.3	.5	.0	.0	.0	10.8
3-4	.0	5.8	9.3	.0	.0	.0	15.1
5-6	.0	.0	6.5	.0	.0	.0	6.5
7	.0	.0	.0	4.2	.0	.0	4.2
8-9	.0	.0	2.8	.0	.0	.0	2.8
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	21.3	19.1	4.2	.0	.0	44.6

PERIOD: (OVER-ALL) 1963-1973

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TABLE 18 (CONT)

AREA 0001 SOUTHEAST SUMATRA
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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.0	.0	.0	.0	.8
1-2	.0	5.5	.0	.0	.0	.0	6.5
3-4	.0	1.3	2.1	.0	.0	.0	3.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.5	2.1	.0	.0	.0	10.6

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.6	1.0	.0	.0	.0	4.6
3-4	.0	.0	.1	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.6	1.2	.0	.0	.0	4.8

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.0	.0	.0	.0	.0	.4
1-2	.0	1.3	1.7	.0	.0	.0	3.0
3-4	.0	.0	.4	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	1.0	.0	.0	1.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.3	2.0	1.0	.0	.0	4.8

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.8	.0	.0	.0	.0	.9
1-2	.0	2.6	.5	.0	.0	.0	3.1
3-4	.0	.0	5.6	.0	.0	.0	5.6
5-6	.0	.0	5.5	.0	.0	.0	5.5
7	.0	1.7	.0	.0	.0	.0	1.7
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	5.1	11.5	.0	.0	.0	16.7

HGT	TOTAL PCT
<1	
1-2	
3-4	
5-6	
7	
8-9	
10-11	
12	
13-16	
17-19	
20-22	
23-25	
26-32	
33-40	
41-48	
49-60	
61-70	
71-86	
87+	
TOT PCT	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	15.1	10.9	.0	.0	.0	.0	26.0	
1-2	1.0	23.2	3.7	.0	.0	.0	27.9	
3-4	.0	7.1	17.4	.0	.0	.0	24.5	
5-6	.0	.0	12.6	.0	.0	.0	12.6	
7	.0	1.7	.0	4.2	.0	.0	5.8	
8-9	.0	.0	2.1	1.0	.0	.0	3.1	
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	16.1	42.9	35.8	5.2	.0	.0	100.0	65

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.6	13.0	10.5	2.8	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	134	3
6-7	.0	4.6	16.4	8.3	8.5	1.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	180	4
8-9	.0	.0	4.7	7.3	4.8	1.6	.9	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	98	6
10-11	.0	.1	1.4	2.3	1.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	5
12-13	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
>13	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	11
INDET.	3.6	1.9	1.9	2.1	.7	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	51	3
TOTAL PCT	4.2	19.7	35.2	22.8	13.1	3.4	.9	.5	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	491 100.0	4

PERIOD: (PRIMARY) 1889-1973
(OVER-ALL) 1854-1973

AREA 0001 SOUTHEAST SUMATRA
3.7S 101.6E

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	*	.2	.2	.2	.2	*	.1	.0	.1	.1	.0	*	36	.1
87/88	.5	1.1	1.6	1.7	1.8	.9	.7	.1	.5	.3	*	.2	284	.8
85/86	5.8	9.5	16.2	22.3	25.2	17.8	8.6	3.7	3.8	4.3	3.9	4.5	3774	10.5
83/84	34.3	41.5	46.4	50.5	53.0	53.1	47.9	39.1	33.3	35.0	30.7	31.8	14848	41.5
81/82	48.4	39.5	29.7	22.0	18.3	26.3	35.8	46.0	47.9	45.4	52.0	50.7	13682	38.2
79/80	9.0	6.9	5.0	2.6	1.2	3.4	6.0	9.3	11.8	11.3	10.9	11.5	2639	7.4
77/78	1.8	1.2	.9	.6	.3	.4	.6	1.4	2.5	2.9	1.6	1.2	455	1.3
75/76	.2	.1	*	.2	.1	.1	.1	.2	.1	.4	.5	.1	60	.2
73/74	*	*	.0	*	.0	.0	.2	*	*	.4	.2	*	32	.1
71/72	.0	.0	.0	.0	.0	.0	.0	*	.0	*	.1	*	5	*
69/70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
67/68	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	0	.0
65/66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
63/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	2949	2750	3122	2993	3091	3011	2979	2984	2935	3146	3001	2954	35815	100.0
MEAN	82.2	82.6	83.0	83.4	83.6	83.2	82.6	82.1	82.0	82.0	81.9	82.0	82.5	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1010		1010	1008	1009	1010	1010	1008	1010	92
FEB	1010		1010	1007	1009	1007	1009	1010	1009	75
MAR	1011	1011	1010	1008	1010	1008	1011	1009	1010	106
APR	1009	1010	1009	1007	1009	1009	1010	1008	1009	106
MAY	1010		1009	1008	1010	1008	1011	1008	1010	74
JUN	1010	1011	1009	1008	1009	1010	1010	1009	1010	61
JUL	1010	1013	1010	1011	1010		1011	1010	1010	98
AUG	1011		1010	1010	1010	1009	1010	1009	1010	86
SEP	1011		1011	1010	1010		1011	1012	1011	104
OCT	1011	1013	1010	1009	1010	1010	1010	1011	1010	111
NOV	1010	1009	1010	1009	1010	1012	1010	1009	1010	137
DEC	1010		1009	1008	1009	1009	1010	1008	1009	105
ANN	1010	1011	1010	1009	1010	1009	1010	1009	1010	1153
OBS	276	7	294	85	189	39	174	93		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	1004	1004	1003	1008	1010	1011	1012	1013	1014
FEB	1007	1007	1007	1008	1009	1010	1012	1012	1013
MAR	1006	1006	1006	1008	1010	1011	1013	1013	1014
APR	1005	1005	1006	1008	1009	1010	1012	1013	1014
MAY	1005	1005	1007	1008	1010	1011	1013	1013	1014
JUN	1006	1006	1007	1008	1009	1011	1012	1014	1015
JUL	1007	1007	1008	1009	1010	1011	1012	1013	1013
AUG	1006	1006	1007	1009	1010	1012	1013	1013	1014
SEP	1006	1006	1008	1010	1011	1012	1014	1014	1015
OCT	1006	1005	1007	1009	1010	1011	1013	1013	1014
NOV	1006	1006	1007	1009	1010	1011	1013	1013	1014
DEC	1005	1005	1006	1008	1009	1011	1012	1013	1014

JANUARY

PERIOD: (PRIMARY) 1866-1972
(OVER-ALL) 1859-1972

AREA 0002 CHRISTMAS ISLAND
10.25 105.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	16.7	12.5	.0	.0	.0	.0		70.8
NE	30.8	.0	30.8	.0	.0	.0	.0	61.5	38.5	.0	.0	.0	.0	.0		.0
E	21.6	8.1	.0	.0	.0	.0	.0	29.7	8.1	.0	.0	.0	.0	.0		62.2
SE	.0	3.5	2.9	.0	.0	.0	.0	6.6	.7	2.9	.0	.0	.0	.0		89.8
S	.0	.0	.0	.0	.0	.0	.0	.0	4.0	.0	.0	.0	.0	.0		96.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	2.8	2.8	.0	.0	.0	.0		94.3
W	.0	3.6	.0	.0	.0	.0	.0	3.6	3.6	.0	.0	.0	.0	.0		92.8
NW	.0	.0	10.5	.0	.0	.0	.0	10.5	10.5	1.3	.0	.0	.0	.0		77.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
TOT PCT	1.6	1.6	2.2	.0	.0	.0	.0	5.5	4.9	1.6	.0	.0	.0	.0		87.9
TOT OBS:	182															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.0	4.1	2.0	.0	.0	.0	.0	8.2	2.0	.0	.0	.0	.0	.0		89.8
06&09	3.4	1.7	1.7	.0	.0	.0	.0	6.8	6.8	.0	.0	.0	.0	.0		80.4
12&15	.0	.0	.0	.0	.0	.0	.0	.0	7.0	2.3	.0	.0	.0	.0		90.7
18&21	.0	.0	5.4	.0	.0	.0	.0	5.4	2.7	5.4	.0	.0	.0	.0		86.5
TOT PCT	1.1	1.6	2.1	.0	.0	.0	.0	5.3	4.6	1.6	.0	.0	.0	.0		88.3
TOT OBS:	188															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.2	1.6	.4	.2	.0	.0		2.5	9.0	.0	.0	2.0	4.1	4.1	.0	3.1	4.1
NE	.8	1.2	.0	.0	.0	.0		2.0	3.7	2.4	.0	1.4	.0	.5	.0	3.1	7.1
E	.7	1.4	.9	.0	.0	.0		3.1	7.4	3.6	.0	2.9	5.4	4.3	.0	3.1	.0
SE	2.8	7.5	5.3	.0	.0	.0		15.6	8.6	17.5	4.2	15.0	13.0	17.9	20.0	17.7	9.7
S	2.5	14.4	2.5	.0	.0	.0		20.5	7.3	28.9	41.7	17.1	25.0	18.2	35.0	23.1	11.7
SW	4.1	14.1	4.0	.2	.0	.0		22.3	7.4	21.7	12.5	25.2	19.6	20.1	5.0	21.5	25.5
W	1.6	7.4	6.6	.8	.0	.0		16.4	10.3	19.0	25.0	19.1	21.6	13.5	30.0	6.2	15.3
NW	.5	6.1	3.4	.0	.0	.0		10.1	9.2	4.5	16.7	8.9	6.8	12.5	10.0	14.6	14.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.4							7.4	.0	2.4	.0	8.5	3.4	8.7	.0	7.7	12.2
TOT OBS	109	270	117	6	0	0	502		7.6	83	6	165	37	92	5	65	49
TOT PCT	21.7	53.8	23.3	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 SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.5	.5	.2	.0	.0		2.5	9.0	.0	2.4	3.9	3.5
NE	2.0	.0	.0	.0	.0		2.0	3.7	2.2	1.1	.5	4.8
E	1.6	1.5	.0	.0	.0		3.1	7.4	3.4	3.2	4.1	1.8
SE	5.4	8.6	1.2	.0	.0		15.6	8.6	16.6	14.7	18.0	14.3
S	9.2	10.3	1.0	.0	.0		20.5	7.3	29.6	18.3	19.1	18.2
SW	11.7	9.7	1.1	.0	.0		22.5	7.4	21.1	24.1	19.3	23.2
W	4.8	9.2	2.4	.0	.0		16.4	10.3	19.4	19.6	14.4	10.1
NW	3.8	5.2	1.0	.0	.0		10.1	9.2	5.3	4.5	12.4	14.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	7.4						7.4	.0	2.2	7.9	8.2	9.6
TOT OBS	240	226	36	0	0	502		7.6	89	202	97	114
TOT PCT	47.8	45.0	7.2	.0	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00603	2.2	10.1	56.2	30.3	1.1	.0	.0	8.8	100.0	89
06609	7.9	15.3	51.0	24.8	1.0	.0	.0	7.6	100.0	202
12615	8.2	15.5	58.8	14.4	3.1	.0	.0	7.1	100.0	97
18621	9.6	14.9	52.6	22.8	.0	.0	.0	7.3	100.0	114
TOT	37	72	270	117	6	0	0	7.6		502
PCT	7.4	14.3	53.8	23.3	1.2	.0	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	2.0	1.4		6.5
NE	.0	.0	.7	1.5		7.0
E	2.7	.7	.5	1.2		3.5
SE	6.4	5.4	5.9	1.5		4.0
S	9.0	4.9	8.4	1.2		3.7
SW	3.2	4.2	9.8	2.4		5.0
W	.3	3.0	7.8	3.0		5.F
NW	.0	3.4	5.4	1.4		5.5
VAR	.0	.0	.0	.0		.0
CALM	1.4	.7	.0	.7		4.0
TOT OBS	34	33	60	21	148	4.6
TOT PCT	23.0	22.3	40.5	14.2	100.0	

TABLE 6

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

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	
NE	.0	.0	.0	.7	.8	.0	.0	.0	.0	.0	.7	
E	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	4.1	
SE	.0	.0	.0	1.5	2.2	.0	.0	.0	.0	.0	15.5	
S	.0	.0	.0	1.0	.7	1.0	.0	.0	.0	.2	20.8	
SW	.0	.0	.0	.8	2.0	1.2	.0	.0	.0	.7	14.9	
W	.0	.0	.0	.0	2.0	2.2	.0	.0	.0	.0	10.0	
NW	.0	.0	.0	.0	.7	1.7	.0	.0	.0	.0	7.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	
TOT OBS	0	0	0	6	14	9	0	0	0	1	118	148
TOT PCT	.0	.0	.0	4.1	9.5	6.1	.0	.0	.0	.7	79.7	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >5UYD	* OR >0
* OR >6500	.7	.7	.7	.7	.7	.7	.7	.7
* OR >5000	.7	.7	.7	.7	.7	.7	.7	.7
* OR >3500	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
* OR >2000	5.9	7.2	7.2	7.2	7.2	7.2	7.2	7.2
* OR >1000	9.8	15.7	17.0	17.0	17.0	17.0	17.0	17.0
* OR >600	11.8	19.6	20.9	20.9	20.9	20.9	20.9	20.9
* OR >300	11.8	19.6	20.9	20.9	20.9	20.9	20.9	20.9
* OR >150	11.8	19.6	20.9	20.9	20.9	20.9	20.9	20.9
* OR > 0	11.8	19.6	20.9	20.9	20.9	20.9	20.9	20.9
TOTAL	18	30	32	32	32	32	32	32

TOTAL NUMBER OF OBS: 153 PCT FREQ NH <5/8: 79.1

TABLE 7a

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
2.0	31.7	28.4	21.6	13.0	7.4	4.9	3.1	7.4	.0	162

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.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	.5	.0	.0	.0	.0	.0	.0	.5	
	NO PCP	.0	.7	.4	.1	1.5	.0	.0	.0	.0	.0	2.7	
	TOT %	.0	.7	.4	.7	1.5	.0	.0	.0	.0	.0	3.3	
5<10	PCP	.0	1.1	.5	.5	.0	.0	.5	1.1	.0	.0	3.8	
	NO PCP	.5	.0	.0	2.6	2.9	1.1	1.9	1.4	.0	.0	10.4	
	TOT %	.5	1.1	.5	3.2	2.9	1.1	2.9	2.5	.0	.0	14.3	
10+	PCP	.0	.0	1.0	.1	.0	.0	.0	.0	.0	.0	1.1	
	NO PCP	2.7	.0	3.2	14.8	19.4	18.3	12.8	8.0	.0	2.2	81.3	
	TOT %	2.7	.0	4.1	15.0	19.4	18.3	19.8	8.0	.0	2.2	82.4	
	TOT OBS												182
	TOT PCT	3.3	1.8	9.1	16.8	23.8	17.4	15.2	10.4	.0	2.2	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.6	.4	.0	.0	.0	.0	.0	.0	.0	1.0	
	4-10	.0	.0	.0	.6	1.4	.0	.0	.0	.0		2.0	
	11-21	.0	.0	.0	.0	.0	.0	.2	.2	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.6	.4	.6	1.4	.0	.2	.2	.0	.0	3.4	
5<10	0-3	.0	.0	.0	.0	.5	.5	.5	.0	.0	.0	1.5	
	4-10	.0	1.0	.0	1.8	2.6	.0	.2	1.2	.0		6.9	
	11-21	.5	.0	.5	1.0	.0	1.0	1.5	1.0	.0		5.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.5	1.0	.5	2.8	3.1	1.5	2.2	2.2	.0	.0	13.8	
10+	0-3	.0	1.0	.5	.2	1.6	.9	.7	.0	.0	3.4	8.4	
	4-10	1.4	.5	2.3	9.6	16.4	13.7	6.5	5.3	.0		55.7	
	11-21	.6	.0	.9	3.8	1.4	3.6	5.4	2.1	.0		17.7	
	22+	.5	.0	.0	.0	.0	.0	.5	.0	.0		1.0	
	TOT %	2.5	1.5	3.7	13.7	19.3	18.1	13.2	7.4	.0	3.4	82.8	
	TOT OBS												203
	TOT PCT	3.0	3.1	4.6	17.1	23.8	19.6	15.6	9.9	.0	3.4	100.0	

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00G03	.0	.0	.0	9.8	2.4	7.3	2.4	.0	.0	2.4	24.4	75.6	41
06G09	.0	.0	.0	2.0	16.3	8.2	.0	.0	.0	.0	26.5	73.5	49
12G15	.0	.0	.0	2.6	5.3	2.6	.0	.0	.0	.0	10.5	89.5	38
18G21	.0	.0	.0	.0	13.8	3.4	.0	.0	.0	.0	17.2	82.8	29
TOT	0	0	0	6	15	9	1	0	0	1	32	125	157
PCT	.0	.0	.0	3.8	9.6	5.7	.6	.0	.0	.6	20.4	79.6	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
00G03	.0	.0	.0	1.9	17.0	81.1	53
06G09	.0	.0	.0	3.1	9.4	87.5	64
12G15	.0	.0	.0	.0	13.0	87.0	46
18G21	.0	.0	.0	8.7	23.9	67.4	46
TOT	0	0	0	7	32	170	209
PCT	.0	.0	.0	3.3	15.3	81.3	100.0

TABLE 12

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

HOUR (GMT)	<150 <500YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00G03	.0	.0	12.2	14.6	73.2	41
06G09	.0	.0	4.2	22.9	72.9	48
12G15	.0	.0	2.8	8.3	88.9	36
18G21	.0	.0	7.1	14.3	78.6	28
TOT	0	0	10	24	119	153
PCT	.0	.0	6.5	15.7	77.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-29	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	3.8	8.3	.0	.0	16	12.1
80/84	.0	.0	.0	.0	11.4	39.4	28.8	2.3	108	81.8
75/79	.0	.0	.0	.0	.0	1.5	3.0	1.5	8	6.1
TOTAL	0	0	0	0	20	65	42	5	132	00.0
PCT	.0	.0	.0	.0	15.2	49.2	31.8	3.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	1.5	1.5	.8	4.2	2.7	1.5	.0	.0
	3.8	.8	4.2	15.0	18.6	16.5	13.3	7.6	.0	2.3
	.0	.8	.0	.9	1.1	1.7	.0	.8	.0	.8
	3.8	1.5	5.7	17.4	20.5	22.3	15.9	9.8	.0	3.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00G03	95	93	86	82	78	76	75	81.9	90
06G09	91	90	88	83	79	77	69	83.5	199
12G15	88	86	85	82	79	79	79	82.0	96
18G21	88	87	86	81	78	76	76	81.1	112
TOT	95	90	87	82	79	77	69	82.4	497

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-99	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00G03	.0	.0	20.0	37.1	40.0	2.9	78	35
06G09	.0	.0	17.8	55.6	24.4	2.2	75	45
12G15	.0	.0	12.5	50.0	34.4	3.1	78	32
18G21	.0	.0	4.3	56.5	30.4	8.7	80	23
TOT	0	0	20	67	43	5	77	135

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(OVER-ALL) 1959-1972

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TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
5	.0	.0	.0	.6	1	.0	.6
4	.0	.0	1.9	.6	4	.0	2.5
3	.0	.0	.0	1.2	2	.0	1.2
2	.0	.0	3.1	1.9	8	.0	5.0
1	.0	.0	9.9	1.9	19	.0	11.8
0	.0	.6	9.3	.4	17	.0	10.6
-1	.0	3.7	26.7	.0	49	.0	30.4
-2	.0	5.6	9.3	.0	24	.0	14.9
-3	.0	3.7	7.5	.0	18	.0	11.2
-4	.0	4.3	5.0	.0	15	.0	9.3
-5	.0	.0	.6	.0	1	.0	.6
-6	.6	.6	.0	.0	2	.0	1.2
-7/-8	.0	.0	.6	.0	1	.0	.6
TOTAL	1	30	119	11	161	0	161
PCT	.6	18.6	73.9	6.8	100.0		100.0

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.5	.0	.0	.0	.0	1.5
3-4	.0	.8	.0	.0	.0	.0	.8
5-6	.0	.0	.8	.0	.0	.0	.8
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.3	.8	.0	.0	.0	3.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.9	.0	.0	.0	.0	.0	1.9
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	1.0	.0	.0	.0	.0	1.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	1.0	.0	.0	.0	.0	2.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	1.0	.0	.0	.0	.0	1.8
1-2	.0	1.0	.0	.0	.0	.0	1.8
3-4	.0	1.0	.8	.0	.0	.0	1.8
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	2.0	.0	.0	.0	2.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	3.8	2.8	.0	.0	.0	7.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.5	.0	.0	.0	.0	1.5
1-2	.0	12.5	1.0	.0	.0	.0	13.5
3-4	.0	.5	2.3	.0	.0	.0	2.8
5-6	.0	.0	1.0	.0	.0	.0	1.0
7	.0	.0	1.0	.0	.0	.0	1.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	14.0	4.3	.0	.0	.0	18.8

PERIOD: (OVER-ALL) 1963-1972 JANUARY AREA 0002 CHRISTMAS ISLAND

TABLE 18 (CONT) 10.3S 105.6E

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	6.0	.0	.0	.0	.0	6.8
1-2	.0	11.0	.0	.0	.0	.0	11.0
3-4	.0	5.0	1.8	.0	.0	.0	6.8
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	22.0	1.8	.0	.0	.0	24.5

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	2.5	.0	.0	.0	.0	2.8
1-2	1.0	13.8	1.3	.0	.0	.0	16.0
3-4	.0	3.0	1.3	.0	.0	.0	4.3
5-6	.0	.0	2.0	.0	.0	.0	2.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	19.3	4.5	.0	.0	.0	25.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	1.0	2.3	2.8	.0	.0	.0	6.3
3-4	.0	1.5	1.0	.0	.0	.0	2.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	4.3	3.8	.0	.0	.0	9.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	1.8	1.0	.0	.0	.0	2.8	
3-4	.0	2.3	.0	.0	.0	.0	2.3	
5-6	.0	.0	1.3	.0	.0	.0	1.3	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	4.0	2.3	.0	.0	.0	6.3	97.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.0	11.0	.0	.0	.0	.0	17.0	
1-2	2.0	45.0	6.0	.0	.0	.0	53.0	
3-4	.0	15.0	7.0	.0	.0	.0	22.0	
5-6	.0	.0	5.0	.0	.0	.0	5.0	
7	.0	.0	3.0	.0	.0	.0	3.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.0	71.0	21.0	.0	.0	.0	100.0	100

PERIOD: (OVER-ALL) 1949-1972 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.7	11.5	17.3	4.2	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	46	3
6-7	.0	1.4	11.5	7.9	2.9	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	5
8-9	.0	.7	8.5	9.4	3.6	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	5
10-11	.0	.0	.7	5.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	6
12-13	.0	.0	2.2	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	4
>13	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
INDET	.7	.7	.7	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	4
TOTAL	2	20	54	37	15	11	0	0	0	0	0	0	0	0	0	0	0	0	0	139	4
PCT	1.4	14.4	38.8	26.6	10.8	7.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1865-1969
(OVER-ALL) 1856-1969

AREA 0002 CHRISTMAS ISLAND
10.15 105.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIR

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	5.7	11.4	.0	.0	.0	.0	.0	17.1	.0	.0	.0	.0	.0	.0	.0	82.9
SE	2.6	5.3	.0	.0	.0	.0	.0	7.9	5.3	.0	10.5	.0	.0	.0	.0	76.3
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	13.1	.0	.0	.0	.0	.0	86.9
SW	.0	.0	.0	.0	.0	.0	.0	.0	9.9	.0	.0	.0	.0	.0	.0	90.1
W	.0	4.9	.0	.0	.0	.0	.0	4.9	4.9	.0	.0	.0	.0	.0	.0	90.2
NW	3.7	3.7	.0	.0	.0	.0	.0	7.5	.0	.0	.0	.0	.0	.0	.0	92.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	1.7	3.3	.0	.0	.0	.0	.0	5.0	3.3	1.7	1.7	.0	.0	.0	.0	88.4
TOT OBS:	121															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SI WEA
00603	.0	2.6	.0	.0	.0	.0	.0	2.6	5.1	2.6	2.6	.0	.0	.0	.0	87.2
06609	2.2	4.4	.0	.0	.0	.0	.0	6.7	2.2	.0	2.2	.0	.0	.0	.0	88.9
12615	.0	.0	.0	.0	.0	.0	.0	.0	3.8	.0	.0	.0	.0	.0	.0	96.2
18621	6.7	6.7	.0	.0	.0	.0	.0	13.3	.0	13.3	.0	.0	.0	.0	.0	73.3
TOT PCT	1.6	3.2	.0	.0	.0	.0	.0	4.8	3.2	2.4	1.6	.0	.0	.0	.0	88.0
TOT OBS:	125															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.2	2.5	1.5	.0	.2	.0		5.4	9.1	6.0	.0	4.7	2.2	6.0	.0	10.8	1.8
NE	.3	1.4	.3	.0	.0	.0		2.0	6.6	2.6	.0	2.1	2.2	1.0	.0	1.4	3.6
E	1.2	2.8	.2	.0	.0	.0		4.2	6.0	1.3	.0	5.5	8.7	8.5	.0	.0	.0
SE	1.5	8.0	2.9	.0	.0	.0		12.4	8.4	15.1	.0	12.8	15.2	12.5	.0	6.1	12.5
S	1.5	8.1	3.6	.0	.0	.0		13.1	8.6	14.7	50.0	11.5	23.9	14.0	.0	10.1	7.1
SW	2.9	11.9	4.1	.0	.0	.0		18.9	8.0	22.0	50.0	12.5	21.7	20.5	100.0	16.9	26.8
W	1.5	8.7	3.8	.8	.0	.0		14.9	10.4	14.2	.0	14.1	8.7	17.0	.0	20.9	14.3
NW	2.4	8.8	9.4	1.5	.2	.0		22.3	11.4	17.2	.0	29.7	17.4	16.5	.0	25.7	19.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.8							6.8	.0	6.9	.0	7.3	.0	4.0	.0	8.1	14.3
TOT OBS	57	154	76	7	1	0	295		8.6	58	2	96	23	50	1	37	28
TOT PCT	19.3	52.2	25.8	2.4	.3	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.9	1.7	.7	.0	.2		5.4	9.1	5.8	4.2	5.9	6.9
NE	1.4	.7	.0	.0	.0		2.0	6.6	2.5	2.1	1.0	2.3
E	2.4	1.8	.0	.0	.0		4.2	6.0	1.3	6.1	8.5	.0
SE	4.4	6.9	1.0	.0	.0		12.4	8.4	14.6	13.2	12.3	8.8
S	4.1	8.6	.5	.0	.0		13.1	8.6	15.8	13.9	13.7	8.8
SW	7.2	10.9	.8	.0	.0		18.9	8.0	22.9	14.3	22.1	21.2
W	3.5	8.7	2.5	.2	.0		14.9	10.4	13.8	13.0	16.7	18.1
NW	5.4	12.5	4.0	.2	.2		22.3	11.4	16.7	27.3	16.2	23.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	6.8						6.8	.0	6.7	5.9	3.9	10.8
TOT OBS	112	153	28	1	1	295		8.6	60	119	51	65
TOT PCT	38.0	51.9	9.5	.3	.3		100.0		100.0	100.0	100.0	100.0

FEBRUARY

PERIOD: (PRIMARY) 1865-1969
(OVER-ALL) 1856-1969

AREA 0002 CHRISTMAS ISLAND
10.1S 105.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	6.7	11.7	54.7	25.0	.0	.0	.0	8.4	100.0	60
06&09	5.9	11.8	53.8	25.2	2.5	.8	.0	8.8	100.0	119
12&15	3.9	15.7	52.9	23.5	3.9	.0	.0	8.5	100.0	51
18&21	10.8	12.3	44.6	29.2	3.1	.0	.0	8.6	100.0	65
TOT	20	37	154	76	7	1	0	8.6		295
PCT	6.8	12.5	52.2	25.8	2.4	.3	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	2.1	.0		4.5
NE	.0	.0	1.0	1.0		6.5
E	2.9	1.0	1.8	1.0		4.4
SE	1.6	4.2	5.7	.0		4.5
S	4.9	4.2	3.9	1.0		3.7
SW	1.8	1.3	10.9	.0		5.2
W	3.1	2.9	9.1	3.1		9.2
NW	1.3	5.2	9.1	9.4		6.2
VAR	.0	.0	.0	.0		.0
CALM	1.0	1.0	4.2	.0		4.8
TOT OBS	16	19	46	15	96	5.1
TOT PCT	16.7	19.8	47.9	15.6	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	
NE	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	1.0	
E	.0	.0	.0	.0	1.8	1.0	.0	.0	.0	.0	3.9	
SE	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	10.2	
S	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	13.0	
SW	.0	.0	1.0	1.0	1.3	.0	.0	.0	.0	.0	10.7	
W	.0	.0	.0	.0	3.9	1.0	.0	.0	.0	.0	12.5	
NW	.0	.0	.0	2.3	6.3	5.2	.0	1.0	.0	.0	10.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	
TOT OBS	0	0	1	4	15	7	1	1	0	0	67	96
TOT PCT	.0	.0	1.0	4.2	15.6	7.3	1.0	1.0	.0	.0	69.8	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) • OR >10	• OR >5	• OR >2	• OR >1	• OR >1/2	• OR >1/4	• OR >50YD	• OR >0
• OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
• OR >5000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
• OR >3500	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
• OR >2000	7.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
• OR >1000	18.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2
• OR >600	20.2	28.3	28.3	28.3	28.3	28.3	28.3	28.3
• OR >300	21.2	29.3	29.3	29.3	29.3	29.3	29.3	29.3
• OR >150	21.2	29.3	29.3	29.3	29.3	29.3	29.3	29.3
• OR > 0	21.2	29.3	29.3	29.3	29.3	29.3	29.3	29.3
TOTAL	21	29	29	29	29	29	29	29

TOTAL NUMBER OF OBS: 99 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
.0	14.2	19.8	18.9	17.9	10.4	5.6	4.7	7.5 .0	106

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PERIOD: (PRIMARY) 1865-1969
(OVER-ALL) 1856-1969

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10.1S 105.3E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.8	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.8	
5<10	PCP	.0	.0	.4	.4	.0	.0	.0	.8	.0	.0	1.7	
	NO PCP	.0	.0	.0	2.5	.0	.8	1.7	4.1	.0	.0	9.1	
	TOT %	.0	.0	.4	2.9	.0	.8	1.7	5.0	.0	.0	10.7	
10+	PCP	.0	.0	.8	.8	.0	.0	.8	.8	.0	.0	3.3	
	NO PCP	2.1	1.7	6.0	12.0	12.6	15.9	14.5	15.5	.0	5.0	85.1	
	TOT %	2.1	1.7	6.8	12.8	12.6	15.9	15.3	16.3	.0	5.0	88.4	
	TOT OBS												121
	TOT PCT	2.1	1.7	7.2	15.7	12.6	16.7	16.9	22.1	.0	5.0	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.7	.0		.7	
	11-21	.0	.0	.0	.0	.0	.0	.0	.7	.0		.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	1.5	
5<10	0-3	.0	.0	.0	.0	.0	.7	.0	.7	.0	.0	1.5	
	4-10	.0	.0	.4	1.1	.0	.0	1.5	1.5	.0		4.4	
	11-21	.0	.0	.0	1.5	.0	.0	.0	2.2	.0		3.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.4	2.6	.0	.7	1.5	4.4	.0	.0	9.6	
10+	0-3	1.1	.0	1.5	.4	.4	2.2	.0	2.6	.0	5.9	14.0	
	4-10	1.1	1.5	4.6	10.7	7.9	10.5	11.2	7.0	.0		54.4	
	11-21	.4	.0	.0	1.5	4.4	4.0	3.1	7.2	.0		20.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	2.6	1.5	6.1	12.5	12.7	16.7	14.3	16.7	.0	5.9	89.0	
	TOT OBS												136
	TOT PCT	2.6	1.5	6.4	15.1	12.7	17.5	13.8	22.6	.0	5.9	100.0	

PERIOD: (PRIMARY) 1965-1969
(OVER-ALL) 1954-1969

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	3.0	3.0	18.2	3.0	.0	.0	.0	.0	27.3	72.7	33
06E09	.0	.0	.0	5.3	15.8	10.5	2.6	.0	.0	.0	34.2	65.8	38
12E15	.0	.0	.0	4.5	13.6	9.1	.0	.0	.0	.0	27.3	72.7	22
18E21	.0	.0	.0	.0	.0	.0	.0	9.1	.0	.0	9.1	90.9	11
TOT	0	0	1	4	15	7	1	1	0	0	29	75	104
PCT	.0	.0	1.0	3.8	14.4	6.7	1.0	1.0	.0	.0	27.9	72.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.0	.0	.0	.0	9.3	90.7	43
06E09	.0	.0	.0	4.3	12.8	83.0	47
12E15	.0	.0	.0	.0	10.7	89.3	28
18E21	.0	.0	.0	.0	.0	100.0	22
TOT	0	0	0	2	13	125	140
PCT	.0	.0	.0	1.4	9.3	89.3	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	3.1	6.3	21.9	71.9	32
06E09	.0	.0	5.6	30.6	63.9	36
12E15	.0	.0	4.8	23.8	71.4	21
18E21	.0	.0	.0	10.0	90.0	10
TOT	0	1	5	24	70	99
PCT	.0	1.0	5.1	24.2	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
90/94	.0	.0	.0	.0	1.0	.0	1.0	.0	2	2.1
85/89	.0	.0	.0	.0	7.3	4.2	1.0	.0	12	12.5
80/84	.0	.0	.0	.0	5.2	32.3	29.2	8.3	72	75.0
75/79	.0	.0	.0	.0	.0	3.1	4.2	3.1	10	10.4
TOTAL	0	0	0	0	13	38	34	11	96	100.0
PCT	.0	.0	.0	.0	13.5	39.6	35.4	11.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	1.0	.0	.0	.0	1.0	.0	.0
	.0	.0	2.1	2.1	1.0	2.1	1.0	2.1	.0	2.1
	2.1	1.0	5.5	9.6	6.8	13.5	16.4	15.9	.0	4.2
	.0	.0	.0	1.0	2.1	1.0	2.1	4.2	.0	.0
	2.1	1.0	7.6	13.8	9.9	16.7	19.5	23.2	.0	6.3

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	90	89	87	82	79	78	78	82.2	60
06E09	94	91	89	83	79	75	75	83.6	117
12E15	89	88	85	82	80	76	76	82.2	50
18E21	87	86	85	81	79	78	78	81.3	64
TOT	94	90	88	82	79	77	75	82.6	291

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	3.1	40.6	50.0	6.3	80	32
06E09	.0	.0	27.8	38.9	13.9	19.4	78	36
12E15	.0	.0	4.8	57.1	28.6	9.5	78	21
18E21	.0	.0	9.1	18.2	72.7	.0	82	11
TOT	0	0	13	41	35	11	79	100

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PERIOD: (PRIMARY) 1965-1969
(OVER-ALL) 1956-1969

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TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
5	.0	.0	.0	.0	.9	1	.0	.9
4	.0	.0	.0	1.8	3.5	6	.0	5.3
3	.0	.0	.0	.9	.0	1	.0	.9
2	.0	.0	2.6	2.6	.9	7	.0	6.1
1	.0	1.8	7.0	2.6	.0	13	.0	11.4
0	.0	1.8	16.7	3.5	.0	25	.9	21.1
-1	.0	.9	20.2	.0	.0	24	.9	20.2
-2	.0	.9	8.1	.0	.0	8	.0	7.0
-3	.0	.9	7.0	.0	.0	9	.0	7.9
-4	.0	4.4	6.1	.0	.0	12	.0	10.5
-5	.0	3.5	.9	.0	.0	5	.0	4.4
-6	.9	.9	.0	.0	.0	2	.0	1.8
-7/-8	.0	.9	.0	.0	.0	1	.0	.9
TOTAL	1		76		6		2	112
		18		13		114		
PCT	.9	15.8	66.7	11.4	5.3	100.0	1.8	98.2

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

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

NE

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

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.8	3.2	.0	.0	.0	.0	5.0
1-2	.0	1.8	.0	.0	.0	.0	1.8
3-4	.0	1.8	.0	.0	.0	.0	1.8
5-6	.0	1.8	.0	.0	.0	.0	1.8
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.8	8.8	.0	.0	.0	.0	10.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5
1-2	.0	2.3	1.8	.0	.0	.0	4.1
3-4	.0	1.8	.0	.0	.0	.0	1.8
5-6	.0	3.6	.0	.0	.0	.0	3.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	1.8	.0	.0	.0	.0	1.8
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	10.0	1.8	.0	.0	.0	11.8

PERIOD: (OVER-ALL) 1963-1969

FEBRUARY

TABLE 18 (CONT)

AREA 0002 CHRISTMAS ISLAND
10.1S 105.3E

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	5.0	.0	.0	.0	.0	5.0
3-4	.0	7.3	5.5	.0	.0	.0	12.7
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	3.6	.0	.0	.0	3.6
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	12.3	9.1	.0	.0	.0	21.4

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.8	.0	.0	.0	.0	.0	1.8
1-2	.0	15.5	1.8	.0	.0	.0	17.3
3-4	.0	1.8	3.6	.0	.0	.0	5.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.8	17.3	5.5	.0	.0	.0	24.5

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	5.5	.0	.0	.0	.0	5.5
3-4	.0	1.8	.0	.0	.0	.0	1.8
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.3	.0	.0	.0	.0	7.3

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.8	.0	.0	.0	.0	.0	1.8	
1-2	.0	2.7	1.8	.0	.0	.0	4.5	
3-4	.0	1.8	.0	.0	.0	.0	1.8	
5-6	.0	.0	3.6	.0	.0	.0	3.6	
7	.0	.0	3.6	.0	.0	.0	3.6	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.8	4.5	9.1	.0	.0	.0	15.5	94.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	12.7	3.6	.0	.0	.0	.0	16.4	
1-2	.0	32.7	5.5	.0	.0	.0	38.2	
3-4	.0	16.4	9.1	.0	.0	.0	25.5	
5-6	.0	5.5	3.6	.0	.0	.0	9.1	
7	.0	1.8	7.3	.0	.0	.0	9.1	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	1.8	.0	.0	.0	.0	1.8	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	12.7	61.8	25.5	.0	.0	.0	100.0	55

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.1	11.2	7.9	2.2	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	3
6-7	.0	.0	13.5	12.4	10.1	3.4	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38	5
8-9	.0	1.1	4.5	2.2	12.4	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	6
10-11	.0	.0	1.1	.0	.0	2.2	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	9
12-13	.0	.0	.0	1.1	.0	.0	1.1	.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	
INDET	3.4	.0	.0	.0	2.2	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	4
TOTAL	4	11	24	16	22	8	3	0	0	1	0	0	0	0	0	0	0	0	0	89	5
PCT	4.5	12.4	27.0	18.0	24.7	9.0	3.4	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1862-1969
(OVER-ALL) 1855-1969

AREA 0002 CHRISTMAS ISLAND
10.0S 104.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	.0	13.3	.0	.0	.0	.0	.0	13.3	13.3	.0	.0	.0	.0	.0	.0	73.3
NE	40.0	.0	.0	.0	.0	.0	.0	40.0	.0	.0	.0	.0	.0	.0	.0	60.0
E	.0	3.2	4.3	.0	.0	.0	.0	7.5	.0	3.2	.0	.0	.0	.0	.0	89.2
SE	.0	.6	2.2	.0	.0	.0	.0	2.8	6.7	2.8	.0	.0	.0	.0	.0	87.8
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SW	8.5	.0	.0	.0	.0	.0	.0	8.5	8.5	.0	.0	.0	.0	.0	.0	83.0
W	.0	7.1	.0	.0	.0	.0	.0	7.1	5.4	.0	.0	.0	.0	.0	.0	87.5
NW	.0	17.4	.0	.0	.0	.0	.0	17.4	1.4	.0	.0	.0	.0	.0	.0	81.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	20.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	.0	.0	80.0
TOT PCT	1.4	5.1	1.4	.0	.0	.0	.0	8.0	4.3	1.4	.0	.0	.0	.0	.0	86.2
TOT OBS:	138															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03	3.1	.0	3.1	.0	.0	.0	.0	6.3	3.1	.0	.0	.0	.0	.0	.0	90.6
06&09	.0	5.3	.0	.0	.0	.0	.0	5.3	7.9	2.6	.0	.0	.0	.0	.0	84.2
12&15	2.6	5.3	2.6	.0	.0	.0	.0	10.5	.0	2.6	.0	.0	.0	.0	.0	86.8
18&21	.0	8.6	.0	.0	.0	.0	.0	8.6	5.7	.0	.0	.0	.0	.0	.0	85.7
TOT PCT	1.4	4.9	1.4	.0	.0	.0	.0	7.7	4.2	1.4	.0	.0	.0	.0	.0	86.7
TOT OBS:	143															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.4	3.0	1.5	.2	.0	.0		6.0	8.5	5.7	.0	7.9	7.8	5.8	.0	3.3	4.4
NE	.2	3.7	.9	.0	.0	.0		4.8	8.6	4.7	.0	5.4	2.3	3.1	8.3	3.1	9.5
E	1.5	9.7	8.4	.9	.0	.0		20.5	10.5	19.5	.0	23.5	19.1	19.3	25.0	23.6	22.2
SE	1.1	11.2	5.4	.7	.0	.0		18.4	9.9	22.7	.0	17.7	16.0	16.8	66.7	16.7	19.6
S	1.7	7.1	2.0	.0	.0	.0		10.9	7.9	9.6	.0	8.8	14.1	15.7	.0	8.3	10.8
SW	2.1	4.1	.8	.0	.0	.0		8.9	5.8	5.5	.0	5.6	7.8	8.6	.0	6.7	8.9
W	1.2	5.7	5.3	.5	.0	.0		12.6	10.3	10.7	.0	9.9	12.5	16.4	.0	17.2	11.4
NW	1.9	6.4	5.4	1.0	.5	.0		15.1	11.3	14.3	.0	14.7	17.2	17.7	.0	18.9	8.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.8							4.8	.0	7.3	.0	6.5	3.1	2.7	.0	2.2	5.1
TOT OBS	99	320	184	21	3	3	629		9.2	96	8	184	64	113	3	90	79
TOT PCT	15.7	50.9	29.6	3.3	.5	.0		100.0		100.0	.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.9	2.3	.8	.1	.0		6.0	8.5	5.7	7.9	5.0	3.8
NE	1.7	2.7	.4	.0	.0		4.8	8.8	4.7	4.6	3.2	6.1
E	6.4	10.5	3.6	.0	.0		20.5	10.5	19.5	22.4	13.6	22.9
SE	6.0	9.5	2.9	.0	.0		18.4	9.9	22.7	17.2	18.1	18.0
S	4.8	5.0	1.0	.0	.0		10.9	7.9	9.6	10.2	15.3	9.5
SW	4.6	2.2	.1	.0	.0		6.9	5.8	5.5	6.1	8.4	7.7
W	3.9	6.7	2.0	.0	.0		12.6	10.3	10.7	10.6	15.9	14.5
NW	4.8	7.3	2.5	.2	.3		15.1	11.3	14.3	15.3	17.2	13.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.8						4.8	.0	7.3	5.8	2.6	3.6
TOT OBS	291	290	84	2	2	629		9.2	96	248	116	169
TOT PCT	46.9	46.1	13.4	.3	.3		100.0		100.0	100.0	100.0	100.0

MARCH

PERIOD: (PRIMARY) 1862-1969
(OVER-ALL) 1855-1969

AREA 0002 CHRISTMAS ISLAND
10.0S 104.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00E03	7.3	8.3	57.3	24.0	2.1	1.0	.0	8.9	100.0	96
06E09	5.6	10.9	48.0	31.0	3.6	.8	.0	9.5	100.0	248
12E15	2.6	12.1	49.1	32.8	3.4	.0	.0	9.4	100.0	116
18E21	3.6	11.8	52.7	28.4	3.6	.0	.0	8.7	100.0	169
TOT	30	69	320	186	21	3	0	9.2		629
PCT	4.8	11.0	50.9	29.6	3.3	.5	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.9	2.6	1.7		6.3
NE	.9	.4	.0	.9		4.4
E	5.0	5.8	6.9	1.5		4.3
SE	2.2	11.6	12.3	4.5		5.2
S	2.2	6.0	.6	.0		3.3
SW	1.9	2.8	3.7	.9		4.2
W	.9	.0	8.0	2.6		6.2
NW	1.7	1.7	4.1	2.6		5.4
VAR	.0	.0	.0	.0		.0
CALM	1.7	.9	.0	1.7		4.2
TOT OBS	19	35	44	18	116	4.9
TOT PCT	16.4	30.2	37.9	15.5	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	1.5	1.7	.0	.0	.0	.0	1.7	
NE	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	1.3	
E	.0	.0	.0	.9	3.2	.9	.0	.0	.0	.0	14.2	
SE	.0	.0	.0	1.7	2.8	5.2	.0	.0	.0	.0	20.9	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.8	
SW	.0	.0	.0	.0	.9	.2	.0	.0	.0	.0	7.3	
W	.0	.0	.0	2.6	1.7	1.5	.0	.0	.0	.0	5.6	
NW	.0	.0	.0	.9	1.9	.9	.0	.9	.0	.0	5.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.9	.9	.3	.0	.0	.0	.0	2.6	
TOT OBS	0	0	0	9	15	12	0	1	0	0	79	116
TOT PCT	.0	.0	.0	7.8	12.9	10.3	.0	.9	.0	.0	68.1	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >SOVD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.8	.8	.8	.8	.8	.8	.8	.8
* OR >3500	.8	.8	.8	.8	.8	.8	.8	.8
* OR >2000	9.1	10.7	10.7	10.7	10.7	10.7	10.7	10.7
* OR >1000	19.0	23.1	24.0	24.0	24.0	24.0	24.0	24.0
* OR >600	24.8	30.6	31.4	31.4	31.4	31.4	31.4	31.4
* OR >300	24.8	30.6	31.4	31.4	31.4	31.4	31.4	31.4
* OR >150	24.8	30.6	31.4	31.4	31.4	31.4	31.4	31.4
* OR > 0	24.8	30.6	31.4	31.4	31.4	31.4	31.4	31.4
TOTAL	30	37	38	38	38	38	38	38

TOTAL NUMBER OF OBS: 121 PCT FREQ NH <5/8: 68.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
2.4	9.7	16.1	26.6	13.7	4.8	13.7	6.5	6.5	.0	124

PERIOD: (PRIMARY) 1862-1969
(OVER-ALL) 1855-1969

*89LF 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	
	NO PCP	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.7	
	TOT %	.0	.0	.7	.0	.0	.0	.0	.0	.0	.7	1.5	
5<10	PCP	.7	.0	.0	.7	.0	.0	.7	2.2	.0	.0	4.4	
	NO PCP	1.5	.0	.0	4.4	.7	.7	1.5	1.5	.0	.0	10.2	
	TOT %	2.2	.0	.0	5.1	.7	.7	2.2	3.6	.0	.0	14.6	
10+	PCP	.0	.7	1.3	.2	.0	.0	.0	.0	.0	.0	2.2	
	NO PCP	3.3	1.1	15.0	27.6	7.8	7.1	8.0	8.9	.0	2.9	81.6	
	TOT %	3.9	1.8	16.2	27.7	7.8	7.1	8.0	8.9	.0	2.9	83.9	
	TOT OBS												137
	TOT PCT	4.9	1.8	17.0	32.8	8.6	7.8	10.2	12.6	.0	3.6	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	
	4-10	.0	.0	.6	.0	.0	.0	.0	.0	.0		.6	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.6	.0	.0	.0	.0	.0	.0	.6	1.2	
5<10	0-3	.0	.0	.0	.0	.0	.6	.0	.6	.0	.0	1.2	
	4-10	1.2	.0	.0	3.6	.6	.6	.6	.6	.0		7.1	
	11-21	.6	.0	.0	.6	.0	.0	1.2	1.2	.0		3.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.6	.0		.6	
	TOT %	1.8	.0	.0	4.2	.6	1.2	1.8	3.0	.0	.0	12.5	
10+	0-3	.6	.0	1.0	.9	.4	1.2	1.2	1.2	.0	4.8	11.3	
	4-10	.4	1.5	11.0	19.8	6.1	4.5	4.0	9.1	.0		52.4	
	11-21	1.6	.0	4.8	5.8	.7	.1	7.0	2.9	.0		22.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	2.7	1.5	16.8	26.5	7.3	5.8	12.2	8.9	.0	4.8	86.3	
	TOT OBS												168
	TOT PCT	4.5	1.5	17.4	30.7	7.9	7.0	14.0	11.8	.0	5.4	100.0	

PERIOD: (PRIMARY) 1862-1969
(OVER-ALL) 1859-1969

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NM >6/8) AND OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	.0	6.7	16.7	13.3	.0	.0	.0	.0	36.7	63.3	30
06E09	.0	.0	.0	6.1	15.2	9.1	.0	.0	.0	.0	30.3	69.7	33
12E15	.0	.0	.0	6.9	10.3	10.3	.0	.0	.0	.0	27.6	72.4	29
18E21	.0	.0	.0	9.7	9.7	6.5	.0	3.2	.0	.0	29.0	71.0	31
TOT	0	0	0	9	16	12	0	1	0	0	38	85	123
PCT	.0	.0	.0	7.3	13.0	9.8	.0	.8	.0	.0	30.9	69.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.0	.0	.0	.0	.0	100.0	38
06E09	.0	.0	.0	.0	8.2	91.8	49
12E15	.0	.0	.0	2.6	23.1	74.4	39
18E21	.0	.0	.0	2.1	17.0	80.9	47
TOT	0	0	0	2	21	150	173
PCT	.0	.0	.0	1.2	12.1	86.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET/NM >6/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NM <5/8 AND 5+	TOTAL OBS
00E03	.0	.0	6.9	31.0	62.1	29
06E09	.0	.0	6.3	25.0	68.8	32
12E15	.0	.0	10.3	17.2	72.4	29
18E21	.0	.0	12.9	19.4	67.7	31
TOT	0	0	11	28	82	121
PCT	.0	.0	9.1	23.1	67.8	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	.0	1	1.0
85/89	.0	.0	.0	.0	7.0	8.8	2.9	.0	14	13.7
80/84	.0	.0	.0	.0	5.9	29.4	32.4	9.8	79	77.5
75/79	.0	.0	.0	.0	.0	1.0	2.9	3.9	8	7.8
TOTAL	0	0	0	0	9	40	39	14	102	100.0
PCT	.0	.0	.0	.0	8.8	39.2	38.2	13.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0
	.5	.0	4.2	2.9	.7	2.0	2.0	1.5	.0	.0
	2.2	1.2	13.5	26.2	7.8	4.4	7.1	13.0	.0	2.0
	.0	.0	1.0	3.2	.7	1.0	1.0	1.0	.0	.0
	2.7	1.2	18.6	32.4	10.3	7.4	10.0	15.4	.0	2.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	88	87	86	82	79	78	78	82.4	94
06E09	94	93	88	84	79	78	78	84.2	240
12E15	90	88	87	83	79	76	76	82.6	114
18E21	87	86	85	82	79	77	75	81.7	162
TOT	94	93	87	83	79	78	75	82.9	610

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-89	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	12.5	25.0	45.8	16.7	80	24
06E09	.0	.0	17.2	48.3	31.0	3.4	76	29
12E15	.0	.0	3.8	42.3	44.2	7.7	81	26
18E21	.0	.0	3.7	37.0	33.3	25.9	83	27
TOT	0	0	10	41	41	14	80	106

PERIOD: (PRIMARY) 1862-1969
(OVER-ALL) 1859-1969

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TABLE 17

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

AIR-SEA TMP DIF	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
5	.0	.8	.8	.8	3	.0	2.5
4	.0	.0	2.5	.0	3	.0	2.5
3	.0	.0	.8	.0	1	.0	.8
2	.0	3.4	5.1	.0	10	.0	8.5
1	.0	9.3	.8	.0	12	.0	10.2
0	1.7	13.6	1.7	.0	20	.0	16.9
-1	1.7	17.8	2.5	.0	26	.0	22.0
-2	2.5	6.8	.0	.0	11	.0	9.3
-3	5.9	9.3	.0	.0	18	.0	15.3
-4	.8	4.2	.0	.0	6	.0	5.1
-5	.8	1.7	.0	.0	3	.0	2.5
-6	1.7	.0	.0	.0	2	.0	1.7
-7/-8	1.7	.0	.0	.0	2	.0	1.7
-9/-10	.8	.0	.0	.0	1	.0	.8
TOTAL	21	79	17	1	118	0	118
PCT	17.8	66.9	14.4	.8	100.0		100.0

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

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

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.5	.0	.0	.0	.0	.5
3-4	.0	2.0	.0	.0	.0	.0	2.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.5	.0	.0	.0	.0	2.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	5.5	.0	.0	.0	.0	5.5
3-4	.0	7.5	2.0	.0	.0	.0	9.5
5-6	.0	.0	1.5	.0	.0	.0	1.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	13.0	3.5	.0	.0	.0	16.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	10.0	.0	.0	.0	.0	10.0
1-2	.0	8.5	.0	.0	.0	.0	8.5
3-4	.0	5.0	4.0	.0	.0	.0	9.0
5-6	.0	.0	2.5	.0	.0	.0	2.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	23.5	6.5	.0	.0	.0	30.0

PERIOD: (OVER-ALL) 1963-1969

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TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	2.0	.0	.0	.0	.0	.0	2.0
1-2	.0	3.5	.0	.0	.0	.0	3.5	.0	4.0	.0	.0	.0	.0	4.0
3-4	.0	3.0	.0	.0	.0	.0	3.0	.0	.5	.0	.0	.0	.0	.5
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	.5	.0	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.5	.0	.0	.0	.0	6.5	2.0	4.5	.5	.0	.0	.0	7.0

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	2.0	2.0	.0	.0	.0	.0	4.0	
1-2	.0	2.0	5.5	.0	.0	.0	7.5	.0	.0	.5	.0	.0	.0	.5	
3-4	.0	4.0	3.5	.0	.0	.0	7.5	.0	.0	4.5	.0	.0	.0	4.5	
5-6	.0	.0	2.0	.0	.0	.0	2.0	.0	.0	.5	2.0	.0	.0	2.5	
7	.0	.0	1.5	.0	.0	.0	1.5	.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	2.0	.0	.0	.0	2.0	
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	6.0	12.5	.0	.0	.0	18.5	2.0	2.0	7.5	2.0	.0	.0	13.5	96.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.7	13.5	.0	.0	.0	.0	21.2	
1-2	1.9	23.1	5.8	.0	.0	.0	30.8	
3-4	.0	21.2	13.5	.0	.0	.0	34.6	
5-6	.0	.0	7.7	1.9	.0	.0	9.6	
7	.0	.0	1.9	.0	.0	.0	1.9	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	1.9	.0	.0	.0	1.9	
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	9.6	57.7	30.8	1.9	.0	.0	100.0	52

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.2	6.7	14.4	5.6	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	3
6-7	.0	6.7	14.4	7.8	2.2	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	4
8-9	.0	2.2	1.1	2.2	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	4
10-11	.0	.0	2.2	1.1	2.2	1.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	6
12-13	.0	.0	2.2	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	5
>13	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
INDET	4.4	1.1	3.3	2.2	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	3
TOTAL	6	15	34	17	15	1	0	2	0	0	0	0	0	0	0	0	0	0	0	90	4
PCT	6.7	16.7	37.8	18.9	16.7	1.1	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1862-1971
(OVER-ALL) 1855-1971

AREA 0002 CHRISTMAS ISLAND
10.1S 105.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	38.9	.0	.0	.0	.0	.0	.0	38.9	.0	.0	.0	.0	.0	.0	.0	61.1
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	.0	3.4	1.7	.0	.0	.0	.0	5.1	3.0	3.0	.0	.0	.0	.0	.0	88.9
SE	7.3	2.2	.0	.0	.0	.0	.0	9.5	.6	.6	.0	.0	.0	.0	.0	89.4
S	13.6	.0	.0	.0	.0	.0	.0	13.6	.0	.0	.0	.0	.0	.0	.0	86.4
SW	33.3	.0	.0	.0	.0	.0	.0	33.3	.0	.0	.0	.0	.0	.0	.0	66.7
W	.0	.0	.0	.0	.0	.0	.0	.0	50.0	.0	.0	.0	.0	.0	.0	50.0
NW	5.6	22.2	.0	.0	.0	.0	.0	27.8	44.4	.0	.0	.0	.0	.0	.0	27.8
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	2.9	.7	.0	.0	.0	.0	8.8	3.6	1.5	.0	.0	.0	.0	.0	86.1
TOT OBS:	137															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	8.6	2.9	2.9	.0	.0	.0	.0	14.3	8.6	.0	.0	.0	.0	.0	.0	77.1
06&09	4.3	2.2	.0	.0	.0	.0	.0	6.5	2.2	.0	.0	.0	.0	.0	.0	91.3
12&15	5.3	2.6	.0	.0	.0	.0	.0	7.9	2.6	.0	.0	.0	.0	.0	.0	89.5
18&21	.0	4.5	.0	.0	.0	.0	.0	4.5	.0	9.1	.0	.0	.0	.0	.0	86.4
TOT PCT	5.0	2.8	.7	.0	.0	.0	.0	8.5	3.5	1.4	.0	.0	.0	.0	.0	86.5
TOT OBS:	141															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.1	1.3	.7	.4	.1	.0		3.6	9.6	5.4	.0	6.0	.7	2.8	.0	1.7	1.3
NE	.4	4.3	3.3	.0	.0	.0		8.0	9.9	4.3	.0	11.5	7.9	5.6	33.3	8.0	6.5
E	1.3	17.8	24.9	4.1	.1	.0		48.1	12.9	43.8	33.3	46.7	48.2	50.6	33.3	47.4	55.2
SE	1.0	10.2	11.2	2.9	.1	.0		25.3	13.1	39.1	33.3	19.0	26.8	26.3	33.3	26.7	24.7
S	.5	2.4	1.2	.5	.0	.0		4.6	10.9	2.7	.0	3.1	5.0	6.0	.0	5.7	7.1
SW	.5	.6	.2	.0	.0	.0		1.3	6.0	1.1	33.3	1.0	2.1	2.1	.0	.6	.0
W	.4	1.0	.1	.5	.2	.2		2.3	17.2	2.2	.0	3.3	1.4	1.3	.0	3.4	1.3
NW	.2	1.2	.7	1.7	.2	.3		4.3	22.1	4.3	.0	5.3	7.9	2.8	.0	2.9	2.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.5							2.5	.0	1.1	.0	4.1	.0	2.6	.0	3.4	1.3
TOT OBS	50	250	272	65	4	3	644		12.6	92	3	195	70	117	3	87	77
TOT PCT	7.8	38.8	42.2	10.1	.6	.5		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.8	1.1	.3	.3	.0		3.6	9.6	5.3	4.6	2.7	1.5
NE	2.2	4.8	1.0	.0	.0		8.0	9.9	4.2	10.6	6.3	7.3
E	6.2	28.0	13.1	.9	.0		48.1	12.9	43.4	47.1	50.2	51.1
SE	3.0	14.3	7.8	.2	.0		25.3	13.1	35.0	21.0	26.5	25.8
S	1.1	2.4	1.1	.0	.0		4.6	10.9	2.6	3.6	5.8	6.4
SW	.8	.5	.0	.0	.0		1.3	6.0	2.1	1.3	2.1	.3
W	.9	.5	.2	.4	.3		2.3	17.2	2.1	2.8	1.3	2.4
NW	.7	1.0	.9	1.2	.5		4.3	22.1	4.2	5.9	2.7	2.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.5						2.5	.0	1.1	3.0	2.5	2.4
TOT OBS	124	359	157	19	5	644		12.6	95	265	120	164
TOT PCT	19.3	52.6	24.4	3.0	.8		100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1862-1971
(OVER-ALL) 1855-1971

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.1	6.3	46.3	37.9	8.4	.0	.0	11.6	100.0	95
06&09	3.0	8.7	38.2	39.6	10.6	1.5	.4	12.5	100.0	265
12&15	2.5	1.7	40.0	46.7	8.3	.0	.0	12.4	100.0	120
18&21	2.4	1.8	37.8	45.7	11.6	.0	.6	13.2	100.0	164
TOT	16	34	250	272	65	4	3	12.6		644
PCT	2.5	5.3	38.8	42.2	10.1	.6	.5		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	1.6	1.6		7.2
NE	1.8	3.2	2.1	.0		3.5
E	6.0	17.9	13.5	3.9		4.5
SE	3.7	7.6	16.5	3.0		5.0
S	2.3	.7	.7	1.4		4.4
SW	.0	.9	.0	.9		5.0
W	.9	.0	.0	.9		4.5
NW	.9	.0	.9	3.0		6.6
VAR	.0	.0	.0	.0		.0
CALM	1.8	1.8	.9	.0		3.2
TOT OBS	19	35	39	16	109	4.7
TOT PCT	17.4	32.1	35.8	14.7	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 2999	3500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	1.6	.9	.0	.7	.0	.0	.0	.0	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1	
E	.9	.0	.9	.7	6.7	.0	.9	.0	.0	.0	31.6	
SE	.0	.0	.9	.5	4.4	3.7	.0	.0	.0	.0	21.3	
S	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	4.4	
SW	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.9	
W	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.9	
NW	.0	.0	.0	2.1	.0	.9	.2	.0	.0	.0	.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.6	
TOT OBS	1	0	2	7	14	5	2	0	0	0	78	109
TOT PCT	.9	.0	1.8	6.4	12.8	4.6	1.8	.0	.0	.0	71.6	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
* OR >2000	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
* OR >1000	17.0	18.8	18.8	18.8	18.8	18.8	18.8	18.8
* OR >600	22.3	25.0	25.0	25.0	25.0	25.0	25.0	25.0
* OR >300	22.3	25.9	25.9	25.9	25.9	25.9	26.8	26.8
* OR >150	22.3	25.9	25.9	25.9	25.9	25.9	26.8	26.8
* OR > 0	22.3	26.8	26.8	26.8	26.8	26.8	27.7	27.7
TOTAL	25	30	30	30	30	30	31	31

TOTAL NUMBER OF OBS: 112

PCT FREQ NM <5/8: 72.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
1.7	7.6	21.8	26.1	15.1	10.1	8.4	4.2	4.2	.8	119

PERIOD: (PRIMARY) 1862-1971
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.7	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.7	.0	.0	.0	.0	.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	.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	.7	.0	.0	.0	.0	.0	.0	.7	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.7	
5<10	PCP	.7	.0	.7	2.2	.0	.7	.0	.7	.0	.0	5.1	
	NO PCP	.0	.2	1.5	1.1	1.6	.0	.0	.0	.0	.0	4.4	
	TOT %	.7	.2	2.2	3.3	1.6	.7	.0	.7	.0	.0	9.5	
10+	PCP	.5	.0	.7	.2	.5	.0	.0	.2	.0	.0	2.2	
	NO PCP	2.0	5.7	39.2	28.5	1.8	1.9	1.5	2.4	.0	4.4	86.9	
	TOT %	2.6	5.7	40.0	28.6	2.4	1.9	1.5	2.6	.0	4.4	89.1	
	TOT OBS												197
	TOT PCT	3.3	5.8	42.9	32.7	4.0	2.2	1.5	3.3	.0	4.4	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.7	.0	.0	.0	.0	.0	.0		.7	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.7	.0	.0	.0	.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	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.7	.0	.0	.0	.0	.0		.7	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.7	
5<10	0-3	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	
	4-10	.0	.2	.5	3.4	1.6	.0	.0	.0	.0		5.8	
	11-21	.0	.0	1.6	.5	.0	.7	.0	.7	.0		3.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.7	.2	2.2	4.0	1.6	.7	.0	.7	.0	.0	10.1	
10+	0-3	.0	.0	.0	1.4	.0	.0	.7	.0	.0	4.3	6.5	
	4-10	2.0	4.2	20.1	14.7	2.4	1.4	.7	2.4	.0		47.8	
	11-21	.5	1.4	19.6	12.3	.0	.0	.0	.2	.0		34.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	2.5	5.6	39.7	28.4	2.4	1.4	1.4	2.5	.0	4.3	88.4	
	TOT OBS												138
	TOT PCT	3.3	9.8	42.6	33.2	4.0	2.2	1.4	3.3	.0	4.3	100.0	

APRIL

PERIOD: (PRIMARY) 1862-1971
(OVER-ALL) 1855-1971

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	3.6	10.7	17.9	7.1	.0	.0	.0	.0	39.3	60.7	28
06&09	.0	.0	.0	7.7	5.1	5.1	2.6	.0	.0	.0	20.5	79.5	39
12&15	.0	.0	3.2	.0	16.1	3.2	3.2	.0	.0	.0	25.8	74.2	31
18&21	5.3	.0	.0	5.3	10.5	.0	.0	.0	.0	.0	21.1	78.9	19
TOT	1	0	2	7	14	5	2	0	0	0	31	86	117
PCT	.9	.0	1.7	6.0	12.0	4.3	1.7	.0	.0	.0	26.5	73.5	100.0

TABLE 11

PERCENT FREQUENCY /SBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	.0	11.4	88.6	35
06&09	.0	.0	.0	2.2	4.3	93.5	46
12&15	2.6	.0	.0	.0	10.5	86.8	38
18&21	.0	.0	.0	.0	21.7	78.3	23
TOT	1	0	0	1	15	125	142
PCT	.7	.0	.0	.7	10.6	88.0	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	3.6	14.3	25.0	60.7	28
06&09	.0	.0	7.9	13.2	78.9	38
12&15	.0	3.6	3.6	25.0	71.4	28
18&21	5.6	5.6	11.1	11.1	77.8	18
TOT	1	3	10	21	81	112
PCT	.9	2.7	8.9	18.8	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
90/94	.0	.0	.0	.0	.9	.0	.0	.0	1	.9
85/89	.0	.0	.0	.0	3.7	4.6	1.8	.0	11	10.1
80/84	.0	.0	.0	.9	5.5	36.7	33.9	6.4	91	83.5
75/79	.0	.0	.0	.0	.0	.9	.9	2.8	5	4.6
70/74	.0	.0	.0	.0	.0	.0	.0	.9	1	.9
TOTAL	0	0	0	1	11	46	40	11	109	100.0
PCT	.0	.0	.0	.9	10.1	42.2	36.7	10.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.2	.7	.0	.0	.0	.0	.0
.0	.0	3.4	5.7	.9	.0	.0	.0	.0	.0
2.5	7.3	36.7	25.0	3.4	.9	.9	1.1	.0	5.5
.0	.0	.0	2.8	.0	.9	.0	.9	.0	.0
.9	.0	.0	.0	.0	.0	.0	.0	.0	.0
3.4	7.3	40.1	33.7	5.0	1.8	.9	2.1	.0	5.5

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	97	88	86	82	80	74	74	82.6	91
06&09	90	89	88	84	80	78	77	83.9	252
12&15	86	85	85	83	79	76	76	82.5	115
18&21	85	84	84	82	80	79	79	81.9	147
TOT	97	89	87	83	80	78	74	82.9	605

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	3.7	40.7	33.3	22.2	82	27
06&09	.0	2.6	15.8	50.0	26.3	5.3	77	38
12&15	.0	.0	3.8	38.5	50.0	7.7	80	26
18&21	.0	.0	16.7	33.3	44.4	5.6	78	18
TOT	0	1	11	46	40	11	79	109

PERIOD: (PRIMARY) 1862-1971
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TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	# FOG	WD FOG
5	.0	.0	.9	.9	1.8	4	.0	3.0
4	.0	.0	.9	1.8	.0	3	.0	2.7
3	.0	.0	.9	.9	.0	2	.0	1.8
2	.0	.0	1.8	1.8	.0	4	.0	3.6
1	.0	.0	13.6	3.6	.0	19	.3	17.3
0	.0	.0	17.3	.0	.0	19	.0	17.3
-1	.0	.9	15.5	.9	.0	19	.0	17.3
-2	.0	2.7	10.9	.0	.0	15	.0	13.6
-3	.0	.9	10.0	.0	.0	12	.0	10.9
-4	.0	1.8	2.7	.0	.0	5	.0	4.5
-5	.0	.0	1.8	.0	.0	2	.0	1.8
-6	.0	3.6	.0	.0	.0	4	.0	3.6
-7/-8	.0	.9	.0	.0	.0	1	.0	.9
-11/-13	.9	.0	.0	.0	.0	1	.0	.9
TOTAL	1	12	84	11	2	110	0	110
PCT	.9	10.9	76.4	10.0	1.8	100.0		100.0

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	1.2	.0	.0	.0	1.2
3-4	.0	1.6	.0	.0	.0	.0	1.6
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.6	1.2	.0	.0	.0	2.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.3	3.3	.0	.0	.0	6.6
3-4	.0	1.2	.0	.0	.0	.0	1.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.5	3.3	.0	.0	.0	7.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	7.0	4.5	.0	.0	.0	11.5
3-4	.0	10.4	14.3	.0	.0	.0	30.7
5-6	.0	1.6	5.7	.0	.0	.0	7.4
7	.0	.0	1.6	.0	.0	.0	1.6
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	25.0	26.2	.0	.0	.0	51.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	4.9	3.7	.0	.0	.0	8.6
3-4	.0	8.6	2.0	.0	.0	.0	10.7
5-6	.0	1.6	.8	.0	.0	.0	2.5
7	.0	1.6	1.6	.0	.0	.0	3.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	16.8	8.2	.0	.0	.0	25.0

APRIL

PERIOD: (OVER-ALL) 1963-1971

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TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.2	.0	.0	.0	.0	1.2
3-4	.0	1.6	.0	.0	.0	.0	1.6
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.9	.0	.0	.0	.0	2.9

SW

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

W

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

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.4	.0	.0	.0	.4	
3-4	.0	.0	1.6	.0	.0	.0	1.6	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	2.0	.0	.0	.0	2.0	95.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.9	.0	.0	.0	.0	.0	4.9	
1-2	.0	16.4	13.1	.0	.0	.0	29.5	
3-4	.0	31.1	18.0	.0	.0	.0	49.2	
5-6	.0	3.3	8.2	.0	.0	.0	11.5	
7	.0	1.6	3.3	.0	.0	.0	4.9	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.9	52.5	42.6	.0	.0	.0	100.0	61

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.0	4.9	17.6	6.9	2.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	4
6-7	.0	2.0	15.7	13.7	6.9	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	40	4
8-9	.0	1.0	2.0	2.9	6.9	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	6
10-11	.0	.0	.0	1.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	6
12-13	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	2.0	.0	1.0	4.9	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	4
TOTAL	3	8	38	30	19	3	1	0	0	0	0	0	0	0	0	0	0	0	0	102	4
PCT	2.9	7.8	37.3	29.4	18.6	2.9	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1668-1969
(OVER-ALL) 1855-1969

AREA 0002 CHRISTMAS ISLAND
10.1S 105.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NE	.0	26.7	.0	.0	.0	.0	.0	26.7	.0	.0	.0	.0	.0		.0	73.3
E	2.9	.0	1.7	.0	.0	.0	.0	4.5	3.3	2.1	.0	.0	.0		.0	91.3
SE	.6	.0	.0	.0	.0	.0	.0	.6	6.2	.0	.0	.0	.0		.0	93.2
S	.0	.0	.0	.0	.0	.0	.0	.0	21.4	.0	.0	.0	.0		.0	78.6
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.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	1.7	.8	.8	.0	.0	.0	.0	3.3	2.5	3.3	.0	.0	.0		.0	91.7
TOT OBS:	121															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00003	.0	.0	.0	.0	.0	.0	.0	.0	2.9	.0	.0	.0	.0		.0	97.1
06009	3.3	3.3	3.3	.0	.0	.0	.0	10.0	.0	.0	.0	.0	.0		.0	90.0
12015	3.6	.0	.0	.0	.0	.0	.0	3.6	.0	7.1	.0	.0	.0		.0	92.9
18021	.0	.0	.0	.0	.0	.0	.0	.0	6.9	6.9	.0	.0	.0		.0	86.2
TOT PCT	1.7	.8	.8	.0	.0	.0	.0	3.3	2.5	3.3	.0	.9	.0		.0	91.7
TOT OBS:	121															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.5	.3	.3	.0	.0	.0		1.1	7.4	.9	.0	1.2	.9	.0	.0	2.6	.9
NE	.6	2.2	3.0	.5	.0	.0		6.3	12.1	3.8	.0	9.1	7.0	6.7	.0	5.5	5.2
E	.7	14.7	26.5	4.4	.3	.0		48.6	13.4	50.3	50.0	49.0	40.4	51.6	.0	47.1	50.9
SE	.4	11.1	17.7	3.5	.1	.0		33.3	13.7	34.6	50.0	31.2	35.1	33.2	.0	34.2	34.5
S	.1	4.5	2.5	.2	.0	.0		7.4	10.0	6.7	.0	6.0	12.3	7.1	.0	8.6	6.0
SW	.3	.4	.0	.0	.0	.0		.6	5.1	1.2	.0	.9	.0	1.1	.0	.0	.0
W	.4	.5	.0	.0	.0	.0		.9	4.8	1.2	.0	.6	.0	1.1	.0	1.1	1.7
NW	.3	.6	.3	.0	.0	.0		1.2	8.3	1.5	.0	.9	4.4	.0	.0	.9	.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.5							.5	.0	.0	.0	1.2	.0	1.1	.0	.0	.0
TOT OBS	24	200	277	47	2	0	550		12.8	86	1	170	57	91	0	87	58
TOT PCT	4.4	36.4	50.4	8.5	.4	.0		100.0		100.0	100.0	100.0	100.0	100.0	.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.5	.4	.2	.0	.0		1.1	7.4	.9	1.1	.0	1.9
NE	1.1	3.4	1.8	.0	.0		6.3	12.1	3.7	8.6	4.7	5.3
E	5.6	27.5	14.0	1.5	.0		48.6	13.6	50.3	46.8	51.6	48.6
SE	3.9	17.3	11.2	.9	.0		33.3	13.7	34.8	32.2	33.2	34.3
S	1.5	5.5	.4	.0	.0		7.4	10.0	6.6	7.6	7.1	7.6
SW	.5	.2	.0	.0	.0		.6	5.1	1.1	.7	1.1	.0
W	.7	.2	.0	.0	.0		.9	4.8	1.1	.4	1.1	1.4
NW	.3	.9	.0	.0	.0		1.2	8.3	1.4	1.8	.0	.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.5						.5	.0	.0	.9	1.1	.0
TOT OBS	81	306	152	13	0	550		12.8	87	227	91	145
TOT PCT	14.7	55.3	27.6	2.4	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1968-1969
(OVER-ALL) 1955-1969

AREA 0002 CHRISTMAS ISLAND
10.1S 105.2E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00E03	.0	3.4	40.2	49.4	5.7	1.1	.0	12.5	100.0	87
06E09	.9	4.8	35.7	49.3	8.8	.4	.0	12.8	100.0	227
12E15	1.1	3.3	36.3	51.6	7.7	.0	.0	12.8	100.0	91
18E21	.0	2.8	35.2	51.7	10.3	.0	.0	13.1	100.0	145
TOT	3	21	200	277	47	2	0	12.8		550
PCT	.5	3.8	36.4	50.4	8.5	.4	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.9	.0	2.1	.0		4.5
NE	1.5	.9	1.5	.0		4.1
E	15.6	17.1	12.4	2.1		3.6
SE	12.4	11.5	10.3	3.8		4.0
S	.0	.0	.6	.0		6.0
SW	.0	1.2	.0	.0		4.0
W	.0	2.4	1.2	.0		4.3
NW	.3	.0	.3	.0		3.5
VAR	.0	.0	.0	.0		.0
CALM	1.2	.0	.0	1.2		5.0
TOT OBS	27	28	24	6	85	3.9
TOT PCT	31.8	32.9	28.2	7.1	100.0	

TABLE 6

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

	000 149	150 299	300 499	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	
NE	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	2.6	
E	.0	.0	.0	.9	2.4	1.2	.0	.0	.0	.0	42.6	
SE	.0	.0	.0	.3	3.5	1.2	.6	.0	.0	1.2	31.2	
S	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	
TOT OBS	0	0	0	1	6	2	1	0	0	1	74	85
TOT PCT	.0	.0	.0	1.2	7.1	2.4	1.2	.0	.0	1.2	87.1	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
* OR >5000	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
* OR >3500	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
* OR >2000	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
* OR >1000	9.5	10.7	11.9	11.9	11.9	11.9	11.9	11.9
* OR >600	10.7	11.9	13.1	13.1	13.1	13.1	13.1	13.1
* OR >300	10.7	11.9	13.1	13.1	13.1	13.1	13.1	13.1
* OR >150	10.7	11.9	13.1	13.1	13.1	13.1	13.1	13.1
* OR > 0	10.7	11.9	13.1	13.1	13.1	13.1	13.1	13.1
TOTAL	9	10	11	11	11	11	11	11

TOTAL NUMBER OF OBS: 84

PCT FREQ NH <5/8: 86.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
3.0	20.2	21.2	24.2	18.2	3.0	5.1	4.0	1.0	.0	99

PERIOD: (PRIMARY) 1968-1969
(OVER-ALL) 1955-1969

AREA 0002 CHRISTMAS ISLAND
10.1S 105.2E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.8	1.0	.6	.0	.8	.0	.0	.0	3.3	
	TOT %	.0	.0	.8	1.0	.6	.0	.8	.0	.0	.0	3.3	
5<10	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.6	.0	6.9	4.0	.0	.0	.8	.2	.0	.0	12.5	
	TOT %	.6	.0	6.9	4.0	.0	.0	.8	.2	.0	.0	12.5	
10+	PCP	.0	.8	2.3	.2	.0	.0	.0	.0	.0	.0	3.3	
	NO PCP	1.5	2.3	40.4	31.7	2.3	.0	.8	.2	.0	1.7	80.8	
	TOT %	1.5	3.1	42.7	31.9	2.3	.0	.8	.2	.0	1.7	84.2	
	TOT OBS												12
	TOT PCT	2.1	3.1	50.4	36.9	2.9	.0	2.5	.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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.7	.0	.0	.0	.0	.0	.0		.7	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.7	.0	.0	.0	.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	.7	.0	.0	.0	.0	.0	.0		.7	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.7	.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	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	1.4	.7	.0	.0	.7	.0	.0		2.8	
	11-21	.0	.0	.7	.2	.5	.0	.0	.0	.0		1.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	2.1	.9	.5	.0	.7	.0	.0	.0	4.2	
5<10	0-3	.5	.0	.7	.0	.0	.0	.7	.2	.0	.0	2.1	
	4-10	.0	.0	2.8	1.4	.0	.0	.0	.0	.0		4.2	
	11-21	.0	.0	.9	1.9	.0	.0	.0	.0	.0		2.8	
	22+	.0	.0	1.4	.0	.0	.0	.0	.0	.0		1.4	
	TOT %	.5	.0	5.8	3.3	.0	.0	.7	.2	.0	.0	10.6	
10+	0-3	.5	.4	.7	1.1	.0	.0	.0	.2	.0	1.4	4.2	
	4-10	.7	1.4	20.1	17.3	1.4	.0	.7	.0	.0		41.5	
	11-21	.0	.9	22.0	12.5	.5	.0	.0	.0	.0		35.9	
	22+	.0	.0	.4	1.8	.0	.0	.0	.0	.0		2.1	
	TOT %	1.2	2.6	43.1	32.6	1.9	.0	.7	.2	.0	1.4	83.6	
	TOT OBS												142
	TOT PCT	1.8	2.9	52.5	36.8	2.5	.0	2.1	.4	.0	1.4	100.0	

PERIOD: (PRIMARY) 1868-1969
(OVER-ALL) 1855-1969

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	.0	3.6	.0	7.1	3.6	.0	.0	3.6	17.9	82.1	28
06E09	.0	.0	.0	.0	11.5	.0	.0	.0	.0	.0	11.5	88.5	26
12E15	.0	.0	.0	.0	4.3	.0	.0	.0	.0	.0	4.3	95.7	23
18E21	.0	.0	.0	.0	10.0	.0	.0	.0	.0	.0	10.0	90.0	20
TOT	0	0	0	1	6	2	1	[illegible]	0	1	11	86	97
PCT	.0	.0	.0	1.0	6.2	2.1	1.0	.0	.0	1.0	11.3	88.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.0	.0	.0	2.7	10.8	86.5	37
06E09	.0	.0	.0	2.8	5.6	91.7	36
12E15	3.0	.0	.0	3.0	15.2	78.8	33
18E21	.0	2.8	.0	8.3	11.1	77.8	36
TOT	1	1	0	6	15	119	142
PCT	.7	.7	.0	4.2	10.6	83.8	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	.0	4.0	16.0	80.0	25
06E09	.0	.0	4.8	9.5	85.7	21
12E15	.0	.0	.0	5.0	95.0	20
18E21	.0	.0	5.6	11.1	83.3	18
TOT	0	0	3	9	72	84
PCT	.0	.0	3.6	10.7	85.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.0	3.3	1.1	.0	4	4.4
80/84	.0	.0	.0	.0	4.4	42.2	35.6	10.0	83	92.2
75/79	.0	.0	.0	.0	.0	.0	3.3	.0	3	3.3
TOTAL	0	0	0	0	4	41	36	9	90	100.0
PCT	.0	.0	.0	.0	4.4	45.6	40.0	10.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
0	.0	1.7	2.8	.0	.0	.0	.0	.0	.0
1.9	1.4	48.9	33.6	.6	1.1	3.3	.3	.0	1.1
.3	1.1	.8	1.4	.0	.0	.0	.0	.0	.0
1.9	2.5	51.4	37.8	.6	1.1	3.3	.3	.0	1.1

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	87	86	84	82	78	75	75	81.3	83
06E09	88	87	86	83	79	76	74	82.7	211
12E15	84	83	83	82	80	79	79	81.9	85
18E21	84	83	83	81	78	77	76	81.1	131
TOT	88	87	85	82	79	78	74	81.9	510

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.(	.0	3.8	42.3	46.2	7.7	80	26
06E09	.0	.0	8.3	50.0	33.3	8.3	78	24
12E15	.0	.0	4.8	47.6	33.3	14.3	80	21
18E21	.0	.0	.0	42.1	47.4	10.5	82	19
TOT	0	0	4	41	36	9	80	90

PERIOD: (PRIMARY) 1968-1969
(OVER-ALL) 1955-1969

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TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	TOT	# FOG	NO FOG
9/10	.0	.0	1.0	.0	1	.0	1.0
7/8	.0	.0	.0	1.0	1	.0	1.0
4	.0	.0	1.0	.0	1	.0	1.0
3	.0	.0	4.0	1.0	5	.0	5.0
2	.0	.0	5.0	2.0	7	.0	7.0
1	.0	.0	12.0	.0	12	.0	12.0
0	.0	2.0	26.0	1.0	29	.0	29.0
-1	.0	1.0	14.0	.0	15	.0	15.0
-2	.0	1.0	15.0	.0	16	.0	16.0
-3	.0	2.0	2.0	.0	4	.0	4.0
-4	1.0	3.0	3.0	.0	7	.0	7.0
-5	.0	.0	2.0	.0	2	.0	2.0
TOTAL	1		85			0	100
		9		5	100		
PCT	1.0	9.0	85.0	5.0	100.0		100.0

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

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

NE

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

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	9.3	.0	.0	.0	.0	9.3
3-4	.0	8.1	12.8	.0	.0	.0	20.9
5-6	.0	4.1	20.3	.0	.0	.0	24.4
7	.0	.0	2.3	.0	.0	.0	2.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	21.5	35.5	.0	.0	.0	57.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	11.6	4.7	.0	.0	.0	16.3
3-4	.0	8.1	3.5	2.3	.0	.0	14.0
5-6	.0	4.6	3.2	2.3	.0	.0	8.1
7	.0	.0	2.3	.0	.0	.0	2.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	20.3	13.7	4.7	.0	.0	40.7

PERIOD: (OVER-ALL) 1963-1969 AREA 0002 CHRISTMAS ISLAND 10.1S 105.2E

TABLE 18 (CONT)

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

S

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

SW

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

W

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

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	20.9	4.7	.0	.0	.0	25.6	
3-4	.0	16.3	16.3	2.3	.0	.0	34.9	
5-6	.0	4.7	27.9	2.3	.0	.0	34.9	
7	.0	.0	4.7	.0	.0	.0	4.7	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	41.9	53.5	4.7	.0	.0	100.0	43

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	11.8	10.5	5.3	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	3
6-7	.0	1.3	11.8	19.7	1.3	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	4
8-9	.0	.0	2.6	7.9	1.3	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	6
10-11	.0	.0	.0	3.9	5.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	6
12-13	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	.0	1.3	2.6	.0	6.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	5
TOTAL	0	11	21	28	13	1	0	2	0	0	0	0	0	0	0	0	0	0	0	76	5
PCT	.0	14.5	27.6	36.8	17.1	1.3	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1964-1969
(OVER-ALL) 1955-1969

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10.0S 105.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	21.4	.0	.0	.0	.0	.0	.0	78.6
NE	.0	.0	.0	.0	.0	.0	.0	0	2.7	.0	.0	.0	.0	.0	.0	97.3
E	1.5	1.1	.0	.0	.0	.0	.0	2.7	3.1	.0	.0	.0	.0	.0	.0	94.3
SE	8.8	2.2	.0	.0	.0	.0	.0	11.0	1.8	5.3	.0	.0	.0	.0	.0	83.7
S	.0	23.5	.0	.0	.0	.0	.0	23.5	.0	.0	.0	.0	.0	.0	.0	76.5
SW	.0	50.0	.0	.0	.0	.0	.0	50.0	.0	.0	.0	.0	.0	.0	.0	50.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.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	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	4.2	2.8	.0	.0	.0	.0	.0	7.0	2.8	2.1	.0	.0	.0	.0	.0	88.8
TOT OBS:	143															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.8	3.8	.0	.0	.0	.0	.0	7.7	3.8	.0	.0	.0	.0	.0	.0	88.5
06&09	5.0	.0	.0	.0	.0	.0	.0	5.0	.0	.0	.0	.0	.0	.0	.0	95.0
12&15	4.8	.0	.0	.0	.0	.0	.0	4.8	2.4	4.8	.0	.0	.0	.0	.0	88.1
18&21	2.9	8.6	.0	.0	.0	.0	.0	11.4	5.7	2.9	.0	.0	.0	.0	.0	82.9
TOT PCT	4.2	2.8	.0	.0	.0	.0	.0	7.0	2.8	2.1	.0	.0	.0	.0	.0	88.8
TOT OBS:	143															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.5	1.1	.2	.1	.0	.0		1.9	7.0	1.4	.0	2.8	1.4	1.7	.0	1.6	2.2
NE	.7	5.1	4.0	.7	.0	.0		10.4	11.3	7.9	.0	13.7	13.0	9.5	7.1	7.1	8.7
E	.6	11.7	32.1	7.3	.4	.0		52.1	15.2	52.4	100.0	46.9	56.5	51.7	42.9	53.8	56.5
SE	.6	5.3	17.8	4.5	.3	.0		28.6	15.8	33.3	.0	25.8	23.1	30.2	50.0	29.2	30.0
S	.1	1.3	2.0	.3	.0	.0		3.7	13.1	2.4	.0	4.4	3.7	3.2	.0	6.0	1.7
SW	.2	.2	.0	.0	.0	.0		.4	3.5	.8	.0	.2	.9	.0	.0	.7	.0
W	.1	.1	.1	.0	.0	.0		.3	7.0	.0	.0	.9	.0	.0	.0	.4	.0
NW	.6	.5	.2	.0	.0	.0		1.3	5.9	.8	.0	3.4	.5	.7	.0	.4	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4							1.4	.0	.8	.0	1.7	.9	2.7	.0	.7	.9
TOT OBS	42	220	496	113	6	0	875		14.3	126	1	233	108	148	7	137	115
TOT PCT	4.8	25.1	56.5	12.9	.7	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.3	.5	.2	.0	.0		1.9	7.0	1.4	2.3	1.6	1.9
NE	2.5	5.5	2.3	.2	.0		10.4	11.3	7.9	13.6	9.7	7.8
E	3.9	24.2	21.3	2.6	.0		52.1	15.2	52.8	49.9	51.3	55.1
SE	2.5	11.7	12.6	1.8	.0		28.6	15.8	33.3	24.9	31.1	29.6
S	.3	2.3	1.1	.0	.0		3.7	13.1	2.4	4.2	3.1	4.1
SW	.4	.0	.0	.0	.0		.4	3.5	.8	.4	.0	.4
W	.2	.1	.0	.0	.0		.3	7.0	.0	.6	.0	.2
NW	.9	.3	.1	.0	.0		1.3	5.9	.8	2.5	.6	.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.4						1.4	.0	.8	1.5	2.6	.8
TOT OBS	116	390	329	40	0	875		14.3	127	341	155	252
TOT PCT	13.3	44.6	37.6	4.6	.0		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1864-1969
(OVER-ALL) 1855-1969

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.8	2.4	26.0	58.3	11.8	.8	.0	14.6	100.0	127
06&09	1.5	5.0	25.8	52.5	14.7	.6	.0	14.2	100.0	341
12&15	2.6	2.6	26.4	57.4	9.0	.0	.0	13.3	100.0	155
18&21	.8	2.4	21.8	60.3	13.5	1.2	.0	15.0	100.0	252
TOT	12	30	270	494	113	6	0	14.3		875
PCT	1.4	3.4	25.1	56.5	12.9	.7	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.9	.7	.0	.7		2.9
NE	4.2	1.7	.7	.2		2.4
E	15.3	15.1	14.9	3.5		3.8
SE	9.9	12.7	10.4	2.1		3.8
S	.7	.0	2.4	.9		5.9
SW	.0	.0	.0	.0		.0
W	.0	.0	.0	.0		.0
NW	.0	.0	.9	.0		6.0
VAR	.0	.0	.0	.0		.0
CALM	.9	.0	.0	.0		2.0
TOT OBS	35	32	31	8	106	3.8
TOT PCT	33.0	30.2	29.2	7.5	100.0	

TABLE 6

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

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	2.6	
.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	6.6	
.0	.0	.7	1.7	1.9	2.4	.9	.0	.0	.0	41.3	
.0	.0	1.2	1.2	3.1	1.7	.0	.0	.0	.0	28.1	
.0	.0	.0	1.9	.7	.7	.0	.0	.0	.0	.7	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
0	0	2	5	6	6	1	0	0	0	86	106
.0	.0	1.9	4.7	5.7	5.7	.9	.0	.0	.0	81.1	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) • OR >10	• OR >5	• OR >2	• OR >1	• OR >1/2	• OR >1/4	• OR >50YD	• OR >0
• OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
• OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
• OR >3500	.0	.0	.9	.9	.9	.9	.9	.9
• OR >2000	4.7	5.7	6.6	6.6	6.6	6.6	6.6	6.6
• OR >1000	9.4	11.3	12.3	12.3	12.3	12.3	12.3	12.3
• OR >600	11.3	15.1	16.0	16.0	17.0	17.0	17.0	17.0
• OR >300	11.3	16.0	17.9	17.9	18.9	18.9	18.9	18.9
• OR >150	11.3	16.0	17.9	17.9	18.9	18.9	18.9	18.9
• OR > 0	11.3	16.0	17.9	17.9	18.9	18.9	18.9	18.9
TOTAL	12	17	19	19	20	20	20	20

TOTAL NUMBER OF OBS: 106 PCT FREQ NH <5/8: 81.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
2.6	19.3	26.3	21.1	11.4	5.3	5.3	3.5	5.3	.0	114

PERIOD: (PRIMARY) 1864-1969
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.7	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.7	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.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	.5	.2	.0	.7	.0	.0	.0	.0	1.4	
	NO PCP	.0	.0	1.2	.2	.0	.0	.0	.0	.0	.0	1.4	
	TOT %	.0	.0	1.7	.3	.0	.7	.0	.0	.0	.0	2.8	
5<10	PCP	.0	.0	.0	3.5	.7	.0	.0	.0	.0	.0	4.2	
	NO PCP	.0	.0	5.6	2.8	.0	.0	.0	.0	.0	.0	8.4	
	TOT %	.0	.0	5.6	6.3	.7	.0	.0	.0	.0	.0	12.6	
10+	PCP	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.7	
	NO PCP	2.4	6.5	37.6	32.3	2.3	.7	.0	.7	.0	.7	83.2	
	TOT %	2.4	6.5	37.6	33.0	2.3	.7	.0	.7	.0	.7	83.9	
	TOT OBS												143
	TOT PCT	2.4	6.5	45.6	39.7	3.0	1.4	.0	.7	.0	.7	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.7	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.7	.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	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.7	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	1.7	.3	.0	.0	.0	.0	.0		2.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	1.7	.3	.0	.7	.0	.0	.0	.0	2.7	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	3.4	4.1	.0	.0	.0	.0	.0		7.5	
	11-21	.0	.0	2.1	2.1	.7	.0	.0	.0	.0		4.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	5.5	6.2	.7	.0	.0	.0	.0	.0	12.3	
10+	0-3	.5	.2	.7	.0	.0	.0	.0	.0	.0	.7	2.1	
	4-10	1.9	5.3	16.4	9.6	1.7	.7	.0	.7	.0		36.3	
	11-21	.0	.9	19.3	23.1	.5	.0	.3	.3	.0		44.5	
	22+	.0	.0	1.0	.3	.0	.0	.0	.0	.0		1.4	
	TOT %	2.4	6.3	37.5	33.0	2.2	.7	.3	1.0	.0	.7	84.2	
	TOT OBS												146
	TOT PCT	2.4	6.3	45.4	39.6	2.9	1.4	.3	1.0	.0	.7	100.0	

PERIOD: (PRIMARY) 1964-1969
(OVER-ALL) 1855-1969

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	9.1	.0	4.5	.0	.0	.0	.0	.0	13.6	86.4	22
06&09	.0	.0	.0	3.3	6.7	3.3	.0	.0	.0	.0	13.3	86.7	30
12&15	.0	.0	.0	3.2	3.2	9.7	3.2	.0	.0	.0	19.4	80.6	31
18&21	.0	.0	.0	10.3	6.9	6.9	.0	.0	.0	.0	24.1	75.9	29
TOT	0	0	2	5	6	6	1	0	0	0	20	92	112
PCT	.0	.0	1.8	4.5	5.4	5.4	.9	.0	.0	.0	17.9	82.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	3.8	11.5	84.6	26
06&09	.0	2.5	.0	.0	7.5	90.0	40
12&15	.0	.0	.0	4.7	11.6	83.7	43
18&21	.0	.0	.0	2.7	18.9	78.4	37
TOT	0	1	0	4	18	123	146
PCT	.0	.7	.0	2.7	12.3	84.2	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	9.1	9.1	4.5	86.4	22
06&09	.0	3.6	3.6	10.7	85.7	28
12&15	.0	.0	10.3	13.8	75.9	29
18&21	.0	.0	11.1	14.8	74.1	27
TOT	0	3	9	12	85	106
PCT	.0	2.8	8.5	11.3	80.2	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
85/89	.0	.0	.0	.0	.0	2.8	.0	.0	3	2.8
80/84	.0	.0	.0	.9	8.3	35.2	27.8	3.7	82	75.9
75/79	.0	.0	.0	.0	.0	6.5	6.5	8.3	23	21.3
TOTAL	0	0	0	1	9	48	37	13	108	100.0
PCT	.0	.0	.0	.9	8.3	44.4	34.3	12.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	2.8	.0	.0	.0	.0	.0	.0	.0
	.9	5.3	39.4	28.7	.7	.0	.0	.0	.0	.9
	.7	1.2	9.3	7.4	1.9	.0	.0	.9	.0	.0
	1.6	6.5	51.4	36.1	2.5	.0	.0	.9	.0	.9

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	85	84	83	81	77	75	75	80.3	123
06&09	90	88	85	82	78	76	75	81.5	322
12&15	86	85	83	81	78	75	74	80.6	147
18&21	85	84	82	80	77	73	73	79.9	234
TOT	90	86	84	81	77	75	73	80.7	826

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	9.1	40.9	36.4	13.5	80	22
06&09	.0	.0	14.8	51.9	25.9	7.4	77	27
12&15	.0	3.1	6.3	37.5	40.6	12.5	80	32
18&21	.0	.0	3.7	48.1	33.3	14.8	80	27
TOT	0	1	9	48	37	13	79	108

PERIOD: (PRIMARY) 1864-1969
(OVER-ALL) 1855-1969

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10.0S 105.2E

TABLE 17

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

AIR-SEA TMP DIF	/3 7o	77 80	81 84	85 88	TOT	w FOG	WO FOG
7/8	.0	.0	.8	.0	1	.0	.8
5	.0	.0	.0	.8	1	.0	.8
4	.0	.0	.0	.8	1	.0	.8
3	.0	.0	3.1	.0	4	.0	3.1
2	.0	.8	9.2	.8	14	.0	11.7
1	.0	2.3	11.5	.0	18	.0	13.7
0	.0	6.9	14.5	.0	28	.0	21.4
-1	.0	11.5	6.9	.0	24	.0	18.3
-2	.8	9.9	6.9	.0	23	.0	17.6
-3	.8	3.8	2.3	.0	9	.0	6.9
-5	.0	1.5	.8	.0	3	.0	2.3
-6	.0	.8	.0	.0	1	.0	.8
-7/-8	.0	.8	1.5	.0	3	.0	2.3
-11/-13	.8	.0	.0	.0	1	.0	.8
TOTAL	3	50	75	3	131	0	131
PCT	2.3	38.2	57.3	2.3	100.0		100.0

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

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

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.9	.0	.0	.0	.0	3.9
3-4	.0	2.2	.0	.0	.0	.0	2.2
5-6	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.1	.4	.0	.0	.0	6.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	1.8	9.6	.0	.0	.0	.0	11.4
3-4	.0	2.6	13.2	.0	.0	.0	15.8
5-6	.0	1.8	9.6	1.3	.0	.0	12.7
7	.0	.0	9.6	.0	.0	.0	9.6
8-9	.0	.0	1.8	.0	.0	.0	1.8
10-11	.0	.0	1.8	.0	.0	.0	1.8
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.8	14.0	36.0	1.3	.0	.0	53.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	11.0	2.2	.0	.0	.0	13.2
3-4	.0	2.2	7.9	.0	.0	.0	10.1
5-6	.0	.0	5.7	.4	.0	.0	6.1
7	.0	.0	4.4	.0	.0	.0	4.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	13.2	20.2	.4	.0	.0	33.8

PERIOD: (OVER-ALL) 1963-1969

JUNE

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TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.8	1.3	.0	.0	.0	3.1
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	1.8	.0	.0	.0	1.8
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.8	3.1	.0	.0	.0	4.8

SW

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

W

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

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	98.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.8	.0	.0	.0	.0	.0	1.8	
1-2	1.8	26.3	3.5	.0	.0	.0	31.6	
3-4	.0	7.0	21.1	.0	.0	.0	28.1	
5-6	.0	1.8	17.5	1.8	.0	.0	21.1	
7	.0	.0	14.0	.0	.0	.0	14.0	
8-9	.0	.0	1.8	.0	.0	.0	1.8	
10-11	.0	.0	1.8	.0	.0	.0	1.8	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.5	35.1	59.6	1.8	.0	.0	100.0	57

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.1	15.1	2.2	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	2
6-7	.0	3.2	7.5	8.6	9.7	5.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	5
8-9	.0	.0	.0	8.6	11.8	1.1	.0	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	7
10-11	.0	.0	.0	1.1	1.1	3.2	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	8
12-13	.0	.0	.0	.0	1.1	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	8
>13	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDET	.0	2.2	2.2	2.2	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	4
TOTAL	1	19	11	22	24	10	2	4	0	0	0	0	0	0	0	0	0	0	0	93	5
PCT	1.1	20.4	11.8	23.7	25.8	10.8	2.2	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1863-1971
(OVEP-ALL) 1954-1971

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW BLWG	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
E	.0	.0	.0	.0	.0	.0	.0	.0	6.7	.0	1.9	.0	.0	.0		91.4
SE	3.8	.0	.0	.0	.0	.0	.0	3.8	6.6	.0	3.8	.0	.0	.0		86.3
S	.0	.0	.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0		80.0
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		.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.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		.0
TOT PCT	2.1	.0	.0	.0	.0	.0	.0	2.1	6.2	.0	2.8	.0	.0	.0		99.0
TOT OBS:	145															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
00&03	8.6	.0	.0	.0	.0	.0	.0	8.6	5.7	.0	2.9	.0	.0	.0		82.9
06&09	.0	.0	.0	.0	.0	.0	.0	.0	2.2	.0	4.4	.0	.0	.0		93.3
12&15	.0	.0	.0	.0	.0	.0	.0	.0	8.6	.0	2.9	.0	.0	.0		88.6
18&21	.0	.0	.0	.0	.0	.0	.0	.0	10.0	.0	.0	.0	.0	.0		90.0
TOT PCT	2.1	.0	.0	.0	.0	.0	.0	2.1	6.2	.0	2.8	.0	.0	.0		89.0
TOT OBS:	145															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.2	.6	.0	.0	.0	.0		.9	5.6	.0	.0	2.5	.0	.6	.0	.6	.0
NE	.4	2.2	3.3	.7	.1	.0		6.7	13.4	7.4	.0	7.1	9.9	5.5	.0	6.3	4.7
E	.4	6.8	38.6	13.7	1.1	.0		60.6	17.5	58.5	.0	56.3	63.0	60.0	50.0	61.6	69.7
SE	.1	4.6	17.6	5.4	.8	.0		28.5	16.9	32.0	.0	28.2	24.5	30.9	50.0	29.1	23.5
S	.3	.5	1.2	.0	.2	.0		2.3	13.7	1.3	.0	2.6	1.6	3.6	.0	2.4	2.1
SW	.2	.1	.1	.0	.0	.0		.4	9.5	.7	.0	.6	1.0	.0	.0	.0	.0
W	.1	.0	.0	.0	.0	.0		.1	2.0	.0	.0	.4	.0	.0	.0	.0	.0
NW	.2	.4	.0	.0	.0	.0		.6	5.2	.0	.0	2.3	.0	.0	.0	.9	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0							.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	18	135	561	176	19	0	889		16.7	135	0	248	96	165	2	134	117
TOT PCT	2.0	15.2	60.9	19.8	2.1	.0		100.0		100.0	.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)				
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21	
N	.6	.3	.0	.0	.0		.9	5.6	.0	1.8	.6	.3	
NE	.7	3.8	1.9	.3	.0		6.7	13.4	7.4	7.9	5.4	5.6	
E	1.8	20.5	33.9	4.3	.0		60.6	17.5	58.5	58.2	59.9	65.3	
SE	1.2	11.1	14.4	1.7	.0		28.5	16.9	32.0	27.2	31.1	26.5	
S	.6	.7	.8	.2	.0		2.3	13.7	1.3	2.3	3.0	2.3	
SW	.3	.1	.0	.0	.0		.4	9.5	.7	.7	.0	.0	
W	.1	.0	.0	.0	.0		.1	2.0	.0	.3	.0	.0	
NW	.4	.2	.0	.0	.0		.6	5.2	.0	1.6	.0	.0	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	.0						.0	.0	.0	.0	.0	.0	
TOT OBS	51	326	454	58	0	889		16.7	135	336	167	251	
TOT PCT	5.7	36.7	51.1	6.5	.0		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1863-1971
(OVER-ALL) 1854-1971

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	.0	17.0	63.0	17.8	2.2	.0	16.7	100.0	135
06&09	.0	3.3	14.0	62.2	18.5	2.1	.0	16.4	100.0	336
12&15	.0	2.4	18.0	58.7	17.4	3.6	.0	16.5	100.0	167
18&21	.0	1.2	13.9	59.4	24.3	1.2	.0	17.4	100.0	251
TOT	0	18	135	541	176	19	0	16.7		889
PCT	.0	2.0	15.2	60.9	19.8	2.1	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.6	.0		7.0
NE	3.2	1.1	1.5	.0		3.0
E	13.8	9.3	11.9	.8		3.5
SE	12.1	10.0	24.8	7.0		4.8
S	.6	.0	1.9	.6		5.8
SW	.8	.0	.0	.0		2.0
W	.0	.0	.0	.0		.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	36	24	48	10	118	4.2
TOT PCT	30.5	20.3	40.7	8.5	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 499	500 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	
NE	.0	.0	.0	.2	1.1	.2	.0	.0	.0	.0	4.2	
E	.0	.0	.0	.0	.6	3.8	3.2	.0	.0	.0	28.2	
SE	.0	.8	1.1	3.4	6.8	4.2	1.1	.8	.0	.0	35.6	
S	.0	.0	.6	.0	.0	1.9	.0	.0	.0	.0	.6	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	0	1	2	5	10	12	5	1	0	0	82	118
TOT PCT	.0	.8	1.7	4.2	8.5	10.2	4.2	.8	.0	.0	69.5	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.8	.8	.8	.8	.8	.8	.8	.8
* OR >3500	2.5	5.1	5.1	5.1	5.1	5.1	5.1	5.1
* OR >2000	8.5	12.7	15.3	15.3	15.3	15.3	15.3	15.3
* OR >1000	15.3	21.2	23.7	23.7	23.7	23.7	23.7	23.7
* OR >600	19.5	25.4	28.0	28.0	28.0	28.0	28.0	28.0
* OR >300	21.2	27.1	29.7	29.7	29.7	29.7	29.7	29.7
* OR >150	21.2	28.0	30.5	30.5	30.5	30.5	30.5	30.5
* OR > 0	21.2	28.0	30.5	30.5	30.5	30.5	30.5	30.5
TOTAL	25	33	36	36	36	36	36	36

TOTAL NUMBER OF OBS: 118

PCT FREQ NH <5/8: 69.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
3.1	14.1	17.2	19.5	16.4	10.9	10.2	5.5	3.1	.0	128

PERIOD: (PRIMARY) 1963-1971
(OVER-ALL) 1854-1971

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.5	.5	1.0	.0	.0	.0	.0	.0	2.1	
	TOT %	.0	.0	.5	.5	1.0	.0	.0	.0	.0	.0	2.1	
5<10	PCP	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	1.4	
	NO PCP	.0	.0	5.0	3.8	.5	.0	.0	.0	.0	.0	10.3	
	TOT %	.0	.0	6.0	5.2	.5	.0	.0	.0	.0	.0	11.7	
10+	PCP	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.7	
	NO PCP	.5	5.3	29.5	48.4	1.0	.7	.0	.0	.0	.0	85.5	
	TOT %	.5	5.3	29.5	49.1	1.0	.7	.0	.0	.0	.0	86.2	
	TOT OBS												145
	TOT PCT	.5	5.3	36.0	54.8	2.6	.7	.0	.0	.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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.5	.5	.9	.0	.0	.0	.0		1.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.5	.5	.9	.0	.0	.0	.0	.0	1.9	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	4-10	.0	.0	1.3	.0	.0	.0	.0	.0	.0		1.3	
	11-21	.0	.0	3.9	5.6	.5	.0	.0	.0	.0		10.0	
	22+	.0	.0	1.3	.0	.0	.0	.0	.0	.0		1.3	
	TOT %	.0	.0	6.4	5.6	.5	.0	.0	.0	.0	.0	12.5	
10+	0-3	.0	.6	.6	.0	.0	.0	.0	.0	.0	.0	1.3	
	4-10	.5	3.4	10.9	9.1	.5	.0	.0	.0	.0		24.4	
	11-21	.0	1.7	19.8	33.6	.5	.6	.0	.0	.0		56.3	
	22+	.0	.0	.0	3.8	.0	.0	.0	.0	.0		3.8	
	TOT %	.5	5.8	31.4	46.4	.9	.6	.0	.0	.0	.0	85.6	
	TOT OBS												160
	TOT PCT	.5	5.8	38.3	52.5	2.3	.6	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1963-1971
(OVER-ALL) 1954-1971

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	3.1	3.1	3.1	3.1	12.5	3.1	3.1	.0	.0	31.3	68.8	32
06E09	.0	.0	2.6	2.6	15.8	2.6	7.9	.0	.0	.0	31.6	68.4	38
12E15	.0	.0	.0	3.6	7.1	17.9	3.6	.0	.0	.0	32.1	67.9	28
18E21	.0	.0	.0	7.1	3.6	7.1	.0	.0	.0	.0	17.9	82.1	28
TOT	0	1	2	5	10	12	5	1	0	0	36	90	126
PCT	.0	.8	1.6	4.0	7.9	9.5	4.0	.8	.0	.0	28.6	71.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.0	.0	.0	.0	10.3	89.7	39
06E09	.0	.0	.0	.0	16.0	84.0	50
12E15	.0	.0	.0	5.4	8.1	86.5	37
18E21	.0	.0	.0	2.9	14.7	82.4	34
TOT	0	0	0	3	20	137	160
PCT	.0	.0	.0	1.9	12.5	85.6	100.0

TABLE 12

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

HOUR (GMT)	<150 <3OYD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	6.7	10.0	23.3	66.7	30
06E09	.0	2.8	5.6	27.8	66.7	36
12E15	.0	.0	10.7	21.4	67.9	28
18E21	.0	.0	12.5	8.3	79.2	24
TOT	0	3	11	25	82	118
PCT	.0	2.5	9.3	21.2	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
85/89	.0	.0	.0	.8	.0	1.7	.0	.0	3	2.5
80/84	.0	.0	.0	.0	5.9	24.4	11.8	4.2	55	46.2
75/79	.0	.0	.0	.0	1.7	17.6	23.5	5.0	57	47.9
70/74	.0	.0	.0	.0	.0	2.5	.0	.8	4	3.4
TOTAL	0	0	0	1	9	55	42	12	119	100.0
PCT	.0	.0	.0	.8	7.6	46.2	35.3	10.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	2.3	.2	.0	.0	.0	.0	.0	.0
	.0	2.3	18.9	22.9	1.9	.0	.0	.0	.0	.0
	.6	3.2	16.6	25.4	1.3	.8	.0	.0	.0	.0
	.0	.0	.0	3.4	.0	.0	.8	.0	.0	.0
	.6	5.7	37.8	51.9	3.2	.8	.0	.0	.0	.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	84	83	82	79	77	75	74	79.0	131
06E09	88	86	84	80	77	74	71	80.4	324
12E15	90	89	82	79	76	73	70	79.1	161
18E21	83	82	81	79	76	74	73	78.7	240
TOT	90	85	83	79	76	74	70	79.5	856

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	.0	35.5	45.2	19.4	82	31
06E09	.0	2.9	14.3	68.6	11.4	2.9	75	35
12E15	.0	.0	11.1	33.3	44.4	11.1	80	27
18E21	.0	.0	3.8	42.3	46.2	7.7	80	26
TOT	0	1	9	55	42	12	79	119

PERIOD: (PRIMARY) 1963-1971
(OVER-ALL) 1954-1991

TABLE 17

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

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
9/10	.0	.0	.8	.0	.0	.8	2	.0	1.7
4	.0	.0	.0	.0	.8	.0	1	.0	.8
3	.0	.0	.8	.8	.0	.0	2	.0	1.7
2	.0	.0	3.4	.8	1.7	.0	7	.0	5.9
1	.0	.0	5.9	7.6	.0	.0	16	.0	13.6
0	.0	.0	16.1	10.2	.0	.0	31	2.5	23.7
-1	.0	.0	16.1	.8	.0	.0	20	.8	16.1
-2	.0	1.7	4.2	7.4	.0	.0	16	.0	13.6
-3	.8	1.7	6.8	.8	.0	.0	12	.0	10.2
-4	.8	.0	2.5	.8	.0	.0	5	.0	4.2
-5	.0	.8	3.4	.0	.0	.0	5	.0	4.2
-6	.0	.8	.0	.0	.0	.0	1	.0	.8
TOTAL	2	6	71	35	3	1	118	4	114
PCT	1.7	5.1	60.2	29.7	2.5	.8	100.0	3.4	96.6

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

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

N

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

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.6	.0	.0	.0	.0	2.6
3-4	.0	.0	1.0	.0	.0	.0	1.0
5-6	.0	.0	2.6	.0	.0	.0	2.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.6	3.6	.0	.0	.0	6.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	14.3	.0	.0	.0	14.3	9.7
3-4	.0	1.5	6.6	.0	.0	.0	8.2
5-6	.0	.0	13.8	.0	.0	13.8	14.3
7	.0	.0	2.0	.0	.0	2.0	6.6
8-9	.0	.0	.0	2.0	.0	2.0	6.1
10-11	.0	.0	.0	.0	.0	.0	2.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	15.8	22.4	2.0	.0	.0	40.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	7.7	2.0	.0	.0	.0	9.7
3-4	.0	.5	10.7	.0	.0	.0	11.2
5-6	.0	.0	12.2	2.0	.0	.0	14.3
7	.0	.0	6.6	.0	.0	.0	6.6
8-9	.0	.0	4.1	2.0	.0	.0	6.1
10-11	.0	.0	.0	2.0	.0	.0	2.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.2	35.7	6.1	.0	.0	50.0

PERIOD: (OVER-ALL) 1963-1971 JULY AREA 0002 CHRISTMAS ISLAND

TABLE 18 (CONT) 10.0S 105.3E

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

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

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	24.5	2.0	.0	.0	.0	26.5	
3-4	.0	2.0	20.4	.0	.0	.0	22.4	
5-6	.0	.0	28.6	2.0	.0	.0	30.6	
7	.0	.0	10.2	.0	.0	.0	10.2	
8-9	.0	.0	4.1	4.1	.0	.0	8.2	
10-11	.0	.0	.0	2.0	.0	.0	2.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								49
TOT PCT	.0	26.5	65.3	8.2	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1971 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	4.2	10.4	4.2	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	4
6-7	.0	1.0	7.3	15.6	14.6	3.1	2.1	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	44	6
8-9	.0	.0	1.0	10.4	4.2	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	6
10-11	.0	.0	1.0	1.0	2.1	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	6
12-13	.0	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	7
>13	.0	.0	.0	1.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	6
INDET	.0	2.1	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	3
TOTAL	0	7	19	32	27	7	2	2	0	0	0	0	0	0	0	0	0	0	0	96	5
PCT	.0	7.3	19.8	33.3	28.1	7.3	2.1	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1862-1969
(OVER-ALL) 1854-1969

AREA 0002 CHRISTMAS ISLAND
10.0S 105.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	1.7	.0	.0	.0	.0	.0	.0	1.7	1.3	.0	1.7	.0	.0	.0	.0	95.3
SE	1.2	.3	.0	.0	.0	.0	.0	1.5	5.0	.0	1.2	.0	.0	.0	.0	92.4
S	.0	25.0	.0	.0	.0	.0	.0	25.0	.0	.0	.0	.0	.0	.0	.0	75.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.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 PCT	1.3	.7	.0	.0	.0	.0	.0	2.0	3.3	.0	1.3	.0	.0	.0	.0	93.4
TOT OBS:	152															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00203	.0	.0	.0	.0	.0	.0	.0	.0	2.7	.0	.0	.0	.0	.0	.0	97.3
06209	3.8	.0	.0	.0	.0	.0	.0	3.8	1.9	.0	1.9	.0	.0	.0	.0	92.3
12215	.0	3.0	.0	.0	.0	.0	.0	3.0	3.0	.0	3.0	.0	.0	.0	.0	90.9
18221	.0	.0	.0	.0	.0	.0	.0	.0	6.5	.0	.0	.0	.0	.0	.0	93.5
TOT PCT	1.3	.7	.0	.0	.0	.0	.0	2.0	3.3	.0	1.3	.0	.0	.0	.0	93.5
TOT OBS:	153															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.0	.0	.3	.0	.0	.0		.3	16.0	.4	.0	.4	.0	.0	.0	.0	.8
NE	.0	1.6	2.8	.9	.0	.0		5.2	14.2	5.2	.0	4.1	6.6	5.5	.0	6.5	4.8
E	.2	6.4	37.7	13.0	.6	.0		57.9	17.3	57.6	43.8	55.6	63.7	58.7	30.0	55.2	60.8
SE	.0	3.6	23.7	5.2	.5	.0		32.9	16.8	34.1	36.3	36.1	27.0	31.8	70.0	32.6	30.0
S	.2	.3	1.5	.6	.0	.0		2.5	15.0	1.9	.0	2.9	1.3	2.2	.0	3.7	2.8
SW	.2	.1	.0	.0	.0	.0		.3	3.4	.0	.0	.4	.4	.3	.0	.4	.0
W	.1	.1	.0	.0	.0	.0		.2	4.0	.7	.0	.0	.0	.0	.0	.0	.4
NW	.2	.1	.0	.0	.0	.0		.3	3.2	.0	.0	.4	.0	.0	.0	.7	.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.4							.4	.0	.0	.0	.0	.9	1.4	.0	.7	.0
TOT OBS	12	108	591	176	10	0	897		16.7	134	4	236	115	146	5	134	125
TOT PCT	1.3	12.0	65.9	19.6	1.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	03 09	12 15	18 21
N	.0	.1	.2	.0	.0		.3	16.0	.4	.3	.0	.4
NE	.4	3.1	1.7	.1	.0		5.2	14.2	5.1	4.9	5.3	5.7
E	1.3	19.5	35.3	1.7	.2		57.9	17.3	57.2	58.2	57.8	57.9
SE	.6	13.6	17.8	.8	.1		32.9	16.8	34.8	33.2	33.1	31.4
S	.3	1.1	1.1	.0	.0		2.5	15.0	1.8	2.4	2.2	3.3
SW	.2	.1	.0	.0	.0		.3	3.4	.0	.4	.3	.2
W	.2	.0	.0	.0	.0		.2	4.0	.7	.0	.0	.2
NW	.3	.0	.0	.0	.0		.3	3.2	.0	.3	.0	.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.4						.4	.0	.0	.3	1.3	.4
TOT OBS	92	337	503	23	2	897		16.7	138	349	151	259
TOT PCT	3.6	37.6	56.1	2.6	.2		100.0		100.0	100.0	100.0	100.0

AUGUST

PERIOD: (PRIMARY) 1862-1969
(OVER-ALL) 1854-1969

AREA 0002 CHRISTMAS ISLAND
10.0S 105.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00603	.0	.0	17.4	63.0	18.8	.7	.0	16.5	100.0	138
06609	.3	1.1	9.5	66.5	21.2	1.4	.0	17.0	100.0	349
12615	1.3	.0	16.6	64.9	16.6	.7	.0	16.1	100.0	151
18621	.4	1.5	10.0	67.2	19.7	1.2	.0	16.8	100.0	259
TOT	4	8	108	591	176	10	0	16.7		897
PCT	.4	.9	12.0	65.9	19.6	1.1	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.0		.0
NE	.5	1.2	.5	.0		4.0
E	13.8	9.7	10.9	2.9		3.7
SE	9.0	19.2	26.0	4.9		4.6
S	.0	.0	1.5	.0		6.5
SW	.0	.0	.0	.0		.0
W	.0	.0	.0	.0		.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	24	31	40	8	103	4.3
TOT PCT	23.3	30.1	38.8	7.8	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	
E	.0	.0	.0	1.5	4.4	1.9	.0	.0	.0	.0	29.6	
SE	.0	.0	.0	5.3	10.4	6.8	.0	.0	.0	.0	36.4	
S	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.7	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	0	0	0	7	16	9	0	0	0	0	71	103
TOT PCT	.0	.0	.0	6.8	15.5	8.7	.0	.0	.0	.0	68.9	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >2000	6.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
* OR >1000	21.2	24.0	24.0	24.0	24.0	24.0	24.0	24.0
* OR >600	24.0	29.8	30.8	30.8	30.8	30.8	30.8	30.8
* OR >300	24.0	29.8	30.8	30.8	30.8	30.8	30.8	30.8
* OR >150	24.0	29.8	30.8	30.8	30.8	30.8	30.8	30.8
* OR > 0	24.0	29.8	30.8	30.8	30.8	30.8	30.8	30.8
TOTAL	25	31	32	32	32	32	32	32

TOTAL NUMBER OF OBS: 104 PCT FREQ NH <5/8: 69.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
2.6	14.8	19.1	14.8	19.1	8.7	7.8	8.7	4.3	.0	115

PERIOD: (PRIMARY) 1862-1969
(OVER-ALL) 1854-1969

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.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	.2	.5	.0	.0	.0	.0	.0	.7	
	NO PCP	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.7	
	TOT %	.0	.0	.0	.8	.5	.0	.0	.0	.0	.0	1.3	
5<10	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	2.3	10.9	.0	.0	.0	.0	.0	.0	13.2	
	TOT %	.0	.0	2.3	10.9	.0	.0	.0	.0	.0	.0	13.2	
10+	PCP	.0	.0	.7	.7	.0	.0	.0	.0	.0	.0	1.3	
	NO PCP	.0	3.6	35.4	43.8	1.5	.0	.0	.0	.0	.0	84.2	
	TOT %	.0	3.6	36.0	44.4	1.5	.0	.0	.0	.0	.0	85.5	
	TOT OBS												152
	TOT PCT	.0	3.6	38.3	56.1	2.0	.0	.0	.0	.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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.8	.5	.0	.0	.0	.0		1.3	
	22+	.0	.0	.0	.6	.0	.0	.0	.0	.0		.6	
	TOT %	.0	.0	.0	1.4	.5	.0	.0	.0	.0	.0	1.9	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	1.9	.0	.0	.0	.0	.0		1.9	
	11-21	.0	.0	1.7	8.3	.0	.0	.0	.0	.0		10.1	
	22+	.0	.0	.5	.2	.0	.0	.0	.0	.0		.6	
	TOT %	.0	.0	2.2	10.4	.0	.0	.0	.0	.0	.0	12.6	
10+	0-3	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.6	
	4-10	.0	1.6	13.7	7.5	.5	.0	.0	.0	.0		23.3	
	11-21	.0	1.7	21.5	34.9	.9	.0	.0	.0	.0		59.1	
	22+	.0	.2	1.1	1.3	.0	.0	.0	.0	.0		2.5	
	TOT %	.0	3.5	36.9	43.7	1.4	.0	.0	.0	.0	.0	85.5	
	TOT OBS												159
	TOT PCT	.0	3.5	39.2	55.5	1.9	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1862-1969
(OVER-ALL) 1854-1969

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	.0	6.5	16.1	3.2	.0	.0	.0	.0	25.8	74.2	31
06E09	.0	.0	.0	7.9	13.2	10.5	.0	.0	.0	.0	31.6	68.4	38
12E15	.0	.0	.0	8.0	12.0	8.0	.0	.0	.0	.0	28.0	72.0	25
18E21	.0	.0	.0	.0	15.8	10.5	.0	.0	.0	.0	26.3	73.7	19
TOT	0	0	0	7	16	9	0	0	0	0	32	81	113
PCT	.0	.0	.0	6.2	14.2	8.0	.0	.0	.0	.0	28.3	71.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.0	.0	.0	.0	5.3	94.7	38
06E09	.0	.0	.0	.0	13.0	87.0	54
12E15	.0	.0	.0	5.9	11.8	82.4	34
18E21	.0	.0	.0	2.9	20.6	76.5	34
TOT	0	0	0	3	20	137	160
PCT	.0	.0	.0	1.9	12.5	85.6	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	.0	6.7	20.0	73.3	30
06E09	.0	.0	8.1	24.3	67.6	37
12E15	.0	.0	9.5	23.8	66.7	21
18E21	.0	.0	.0	31.3	68.8	16
TOT	0	0	7	25	72	104
PCT	.0	.0	6.7	24.0	69.2	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
85/89	.0	.0	.0	.0	.9	.0	.0	.0	1	.9
80/84	.0	.0	.0	.0	2.8	14.3	5.5	.9	30	27.5
75/79	.0	.0	.0	.0	2.8	38.5	25.7	3.7	77	70.6
70/74	.0	.0	.0	.0	.0	.0	.9	.0	1	.9
TOTAL	0	0	0	0	7	82	35	5	109	100.0
PCT	.0	.0	.0	.0	6.4	56.9	32.1	4.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.9	.0	.0	.0	.0	.0	.0
.0	.2	13.1	14.2	.0	.0	.0	.0	.0	.0
.0	2.1	24.5	42.7	1.4	.0	.0	.0	.0	.0
.0	.0	.5	.5	.0	.0	.0	.0	.0	.0
.0	2.3	38.1	58.3	1.4	.0	.0	.0	.0	.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	85	83	81	78	75	75	73	78.2	137
06E09	86	84	83	79	76	75	72	79.4	338
12E15	83	81	81	78	75	73	72	77.9	145
18E21	83	81	80	78	75	74	69	77.5	246
TOT	86	84	82	78	75	73	69	78.4	866

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	3.2	51.6	45.2	.0	79	31
06E09	.0	.0	13.9	63.9	19.4	2.8	77	36
12E15	.0	.0	.0	63.6	22.7	13.6	79	22
18E21	.0	.0	4.8	42.9	47.6	4.8	81	21
TOT	0	0	7	62	36	5	79	110

AUGUST

PERIOD: (PRIMARY) 1862-1969
(OVER-ALL) 1854-1969

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TABLE 17

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

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 38	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.0	.8	1	.0	.8
5	.0	.0	.0	1.5	.0	2	.0	1.5
4	.0	.0	.0	1.5	.0	2	.0	1.5
3	.0	.0	.8	1.5	.0	3	.0	2.3
2	.0	.0	4.6	5.3	.0	13	.8	9.2
1	.0	.0	13.7	9.1	.0	22	.0	16.8
0	.0	.8	22.1	5.3	.0	37	.0	28.2
-1	.0	.8	15.3	.0	.0	21	.0	16.0
-2	.8	3.1	6.1	.0	.0	13	.0	9.9
-3	.0	.0	5.3	.0	.0	7	.0	5.3
-4	.8	1.5	3.8	.0	.0	8	.0	6.1
-5	.0	.8	.0	.0	.0	1	.0	.8
-9/-10	.0	.0	.8	.0	.0	1	.0	.8
TOTAL	2	9	95	24	1	131	1	130
PCT	1.5	6.9	72.5	18.3	.8	100.0	.8	99.2

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

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

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.4	.0	.0	.0	.0	.4
3-4	.0	.0	.4	.4	.0	.0	.8
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.4	.4	.4	.0	.0	1.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	6.0	.0	.0	.0	.0	6.0
3-4	.0	9.7	9.7	1.2	.0	.0	20.6
5-6	.0	.0	10.5	.0	.0	.0	10.5
7	.0	.0	1.2	1.2	.0	.0	2.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	15.7	21.4	2.4	.0	.0	39.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.6	1.6	.0	.0	.0	3.2
3-4	.0	6.5	12.9	.0	.0	.0	19.4
5-6	.0	1.6	14.1	1.6	.0	.0	17.3
7	.0	.0	10.1	2.0	.0	.0	12.1
8-9	.0	.0	4.8	.0	.0	.0	4.8
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	9.7	43.5	3.6	.0	.0	36.9

PERIOD: (OVER-ALL) 1963-1969

SLIGHT

AREA 0002 CHRISTMAS ISLAND
10.0S 105.3E

TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	1.2	.0	.0	.0	1.2
5-6	.0	.0	1.2	.0	.0	.0	1.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	2.4	.0	.0	.0	2.4

SE

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

N

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

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	0.1	1.0	.0	.0	.0	5.7	
3-4	.0	10.1	24.2	1.6	.0	.0	41.8	
5-6	.0	1.6	25.8	1.6	.0	.0	29.0	
7	.0	.0	11.3	3.2	.0	.0	14.5	
8-9	.0	.0	4.8	.0	.0	.0	4.8	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	25.8	67.7	4.8	.0	.0	100.0	62

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	1.0	11.8	14.7	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	4
6-7	.0	.0	6.9	12.7	3.9	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	5
8-9	.0	1.0	2.0	8.8	1.0	4.9	6.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	7
10-11	.0	.0	.0	2.0	2.9	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	7
12-13	.0	.0	.0	.0	1.0	.0	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	9
>13	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
INDET	.0	1.0	.0	3.9	1.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	6
TOTAL	0	3	21	43	12	11	10	2	0	0	0	0	0	0	0	0	0	0	0	102	6
PCT	.0	2.9	20.6	42.2	11.8	10.8	9.8	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1860-1971
(OVER-ALL) 1854-1971

AREA 0002 CHRISTMAS ISLAND
10.0S 105.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	2.6	.0	.0	.0	.0	.0	2.6	3.9	.0	.0	.0	.0	.0	.0	93.5
SE	.0	.0	.0	.0	.0	.0	.0	.0	3.7	.0	.0	.0	.0	.0	.0	96.3
S	.0	.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	.0	.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.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 PCT	.0	.7	.0	.0	.0	.0	.0	.7	3.6	.0	.0	.0	.0	.0	.0	95.7
TOT OBS:	140															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.0	3.4	.0	.0	.0	.0	.0	3.4	3.4	.0	.0	.0	.0	.0	.0	93.1
06&09	.0	.0	.0	.0	.0	.0	.0	.0	4.8	.0	.0	.0	.0	.0	.0	95.2
12&15	.0	.0	.0	.0	.0	.0	.0	.0	3.0	.0	.0	.0	.0	.0	.0	97.0
18&21	.0	.0	.0	.0	.0	.0	.0	.0	2.8	.0	.0	.0	.0	.0	.0	97.2
TOT PCT	.0	.7	.0	.0	.0	.0	.0	.7	3.4	.0	.0	.0	.0	.0	.0	95.7
TOT OBS:	140															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.2	.1	.2	.0	.0	.0		.4	7.7	.4	.0	1.1	.5	.0	.0	.0	.4
NE	.1	.9	1.9	.1	.0	.0		2.9	12.7	3.0	.0	4.0	2.8	3.0	.0	1.7	2.3
E	.2	7.4	34.6	7.7	.3	.0		50.2	16.4	50.6	.0	51.0	57.5	46.5	75.0	46.3	51.4
SE	*	6.6	29.7	5.1	.3	.0		41.9	16.0	42.8	.0	39.9	34.0	45.6	25.0	46.3	41.3
S	.0	.8	1.8	.1	.1	.0		2.7	13.6	2.6	.0	1.5	3.3	2.4	.0	3.7	3.5
SW	.0	.1	.3	.0	.0	.0		.3	14.8	.0	.0	.6	.5	.6	.0	.0	.0
W	.2	.3	.1	.0	.0	.0		.7	5.1	.0	.0	.8	.5	.9	.0	1.3	.4
NW	.1	.4	.2	.0	.0	.0		.7	7.7	.4	.0	.6	.9	.9	.0	.7	.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.1							.1	.0	.0	.0	.4	.0	.0	.0	.0	.0
TOT OBS	10	151	632	119	6	0	918		15.8	132	0	236	106	165	1	149	129
TOT PCT	1.1	16.4	68.8	13.0	.7	.0		100.0		100.0	.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.3	.1	.1	.0	.0		.4	7.7	.4	.9	.0	.2
NE	.6	1.3	1.0	.1	.0		2.9	12.7	3.0	3.7	3.0	2.0
E	2.1	17.9	28.6	1.6	.0		50.2	16.4	50.6	53.0	46.7	48.7
SE	1.3	18.3	21.4	.9	.0		41.9	16.0	42.8	38.1	45.5	44.0
S	.1	2.0	.6	.1	.0		2.7	13.6	2.8	2.0	2.4	3.6
SW	.0	.2	.2	.0	.0		.3	14.8	.0	.6	.6	.0
W	.3	.2	.0	.0	.0		.7	5.1	.0	.7	.9	.9
NW	.3	.1	.1	.0	.0		.7	7.7	.4	.7	.9	.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.1						.1	.0	.0	.3	.0	.0
TOT OBS	30	367	477	24	0	918		15.8	132	342	166	278
TOT PCT	3.4	40.0	52.0	2.6	.0		100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1960-1971
(OVER-ALL) 1954-1971

AREA 0002 CHRISTMAS ISLAND
10.0S 105.2E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	.0	18.2	68.2	12.9	.8	.0	16.0	100.0	132
06&09	.3	.9	15.8	67.5	14.9	.6	.0	15.9	100.0	342
12&15	.0	.6	19.9	69.9	9.0	.6	.0	15.1	100.0	166
18&21	.0	1.8	14.4	70.1	12.9	.7	.0	16.0	100.0	278
TOT	1	9	151	632	119	6	0	15.8		918
PCT	.1	1.0	16.4	68.8	13.0	.7	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.0		.0
NE	.0	.0	.0	.0		.0
E	6.1	10.1	11.1	1.9		4.4
SE	16.6	20.6	24.6	4.8		4.7
S	.8	2.1	1.3	.0		4.0
SW	.0	.0	.0	.0		.0
W	.0	.0	.0	.0		.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	28	39	44	8	119	4.3
TOT PCT	23.5	32.8	37.0	6.7	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
E	.0	.0	.8	2.9	2.5	1.3	1.7	.8	.0	.0	19.1	
SE	.0	.0	.0	7.1	5.9	6.3	2.1	.0	.0	.0	45.2	
S	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	2.9	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	0	0	1	12	10	9	6	1	0	0	80	119
TOT PCT	.0	.0	.8	10.1	8.4	7.6	5.0	.8	.0	.0	67.2	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.8	.8	.8	.8	.8	.8	.8
* OR >3500	4.2	5.9	5.9	5.9	5.9	5.9	5.9	5.9
* OR >2000	8.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4
* OR >1000	13.4	21.8	21.8	21.8	21.8	21.8	21.8	21.8
* OR >600	20.2	31.9	31.9	31.9	31.9	31.9	31.9	31.9
* OR >300	21.0	32.8	32.8	32.8	32.8	32.8	32.8	32.8
* OR >150	21.0	32.8	32.8	32.8	32.8	32.8	32.8	32.8
* OR > 0	21.0	32.8	32.8	32.8	32.8	32.8	32.8	32.8
TOTAL	25	39	39	39	39	39	39	39

TOTAL NUMBER OF OBS: 119 PCT FREQ NH <5/8: 67.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
.8	10.4	23.2	17.6	14.4	9.6	15.2	6.4	2.4	.0	125

SEPTEMBER

PERIOD: (PRIMARY) 1860-1971
(OVER-ALL) 1854-1971

AREA 0002 CHRISTMAS ISLAND
10.0S 105.2E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	4.3	12.1	.0	.0	.0	.0	.0	.0	16.4	
	TOT %	.0	.0	4.3	12.1	.0	.0	.0	.0	.0	.0	16.4	
10+	PCP	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.7	
	NO PCP	.0	.0	22.3	55.7	4.8	.0	.0	.0	.0	.0	82.9	
	TOT %	.0	.0	23.0	55.7	4.8	.0	.0	.0	.0	.0	83.6	
	TOT OBS												140
	TOT PCT	.0	.0	27.3	67.9	4.8	.0	.0	.0	.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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	2.0	1.3	.0	.0	.0	.0	.0		3.3	
	11-21	.0	.0	2.0	8.7	.0	.0	.0	.0	.0		10.7	
	22+	.0	.0	.0	1.3	.0	.0	.0	.0	.0		1.3	
	TOT %	.0	.0	4.0	11.3	.0	.0	.0	.0	.0	.0	15.3	
10+	0-3	.0	.0	.3	.2	.0	.0	.0	.0	.0	.0	.7	
	4-10	.0	.0	9.5	16.5	2.0	.0	.0	.0	.0		28.0	
	11-21	.0	.0	14.8	37.3	2.5	.0	.0	.0	.0		54.7	
	22+	.0	.0	.0	1.3	.0	.0	.0	.0	.0		1.3	
	TOT %	.0	.0	24.8	55.3	4.5	.0	.0	.0	.0	.0	84.7	
	TOT OBS												150
	TOT PCT	.0	.0	28.8	66.7	4.5	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1960-1971
(OVER-ALL) 1954-1971

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	.0	7.1	10.7	3.6	3.6	.0	.0	.0	25.0	75.0	28
06E09	.0	.0	2.8	13.9	2.8	8.3	5.6	.0	.0	.0	33.3	66.7	36
12E15	.0	.0	.0	13.3	13.3	6.7	3.3	3.3	.0	.0	40.0	60.0	30
18E21	.0	.0	.0	3.6	7.1	10.7	7.1	.0	.0	.0	28.6	71.4	28
TOT	0	0	1	12	10	9	6	1	0	0	39	83	122
PCT	.0	.0	.8	9.8	8.2	7.4	4.9	.8	.0	.0	32.0	68.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.0	.0	.0	.0	10.0	90.0	30
06E09	.0	.0	.0	.0	13.3	86.7	45
12E15	.0	.0	.0	.0	20.6	79.4	34
18E21	.0	.0	.0	.0	17.1	82.9	41
TOT	0	0	0	0	23	127	150
PCT	.0	.0	.0	.0	15.3	84.7	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	.0	7.7	19.2	73.1	26
06E09	.0	2.8	16.7	16.7	66.7	36
12E15	.0	.0	13.8	27.6	58.6	29
18E21	.0	.0	3.6	25.0	71.4	28
TOT	0	1	13	26	80	119
PCT	.0	.8	10.9	21.8	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 OBS	PCT FREQ
85/89	.0	.0	.0	.0	.8	1.7	.0	.0	3	2.5
80/84	.0	.0	.0	.0	3.3	10.0	11.7	.8	31	25.8
75/79	.0	.0	.0	.0	2.5	30.8	31.7	6.7	86	71.7
TOTAL	0	0	0	0	8	51	52	9	120	100.0
PCT	.0	.0	.0	.0	6.7	42.5	43.3	7.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.8	1.7	.0	.0	.0	.0	.0	.0
	.0	.0	10.2	15.0	.0	.0	.0	.0	.0	.0
	.0	.0	16.7	50.8	4.2	.0	.0	.0	.0	.0
	.0	.0	27.7	68.1	4.2	.0	.0	.0	.0	.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	83	82	81	78	76	75	74	78.4	127
06E09	90	88	84	80	77	74	71	80.0	329
12E15	86	85	82	79	75	74	72	78.7	157
18E21	86	83	81	78	75	74	72	78.0	261
TOT	90	86	83	79	76	74	71	78.9	874

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	4.0	40.0	48.0	8.0	80	25
06E09	.0	.0	20.6	50.0	29.4	.0	76	34
12E15	.0	.0	.0	34.4	50.0	15.6	82	32
18E21	.0	.0	.0	44.8	48.3	6.9	80	29
TOT	0	0	8	51	52	9	79	120

PERIOD: (PRIMARY) 1860-1971
(OVER-ALL) 1854-1971

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TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	TOT	% FOG	NO FOG
6	.0	.0	.0	.9	1	.0	.9
5	.0	.9	.9	.0	2	.0	1.7
4	.0	2.6	.0	.9	4	.0	3.4
3	.0	1.7	.9	.9	4	.0	3.4
2	.0	2.6	5.1	.0	9	.0	7.7
1	.9	15.4	1.7	.0	21	.0	17.9
0	2.6	23.9	4.3	.0	36	.0	30.8
-1	1.7	12.8	.0	.0	17	.0	14.5
-2	1.7	7.7	.0	.0	11	.0	9.4
-3	2.6	4.3	.0	.0	8	.0	6.8
-4	.0	1.7	.0	.0	2	.0	1.7
-5	.0	.9	.0	.0	1	.0	.9
-7/-8	.0	.9	.0	.0	1	.0	.9
TOTAL	11		15			0	117
		88		3	117		
PCT	9.4	75.2	12.8	2.6	100.0		100.0

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

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

N

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

NE

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

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	4.9	2.2	.0	.0	.0	7.1
3-4	.0	5.6	9.7	.0	.0	.0	15.3
5-6	.0	.0	11.2	.0	.0	.0	11.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	10.4	23.1	.0	.0	.0	33.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	7.1	3.7	.0	.0	.0	10.8
3-4	.0	1.9	21.6	3.0	.0	.0	26.5
5-6	.0	.0	9.7	3.0	.0	.0	12.7
7	.0	.0	11.9	.0	.0	.0	11.9
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	9.0	47.0	6.0	.0	.0	61.9

PERIOD: (OVER-ALL) 1963-1971

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TABLE 18 (CONT)

AREA 0002 CHRISTMAS ISLAND
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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	3.0	.0	.0	.0	3.0
5-6	.0	.0	1.5	.0	.0	.0	1.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	4.5	.0	.0	.0	4.5

SW

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

W

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

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	11.9	6.0	.0	.0	.0	17.9	
3-4	.0	7.5	34.3	3.0	.0	.0	44.8	
5-6	.0	.0	22.4	3.0	.0	.0	25.4	
7	.0	.0	11.9	.0	.0	.0	11.9	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	19.4	74.6	6.0	.0	.0	100.0	67

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	1.9	12.5	5.8	8.8	1.9	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31	5
6-7	.0	.0	10.6	21.2	9.8	1.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	43	5
8-9	.0	.0	5.8	5.8	2.9	1.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	6
10-11	.0	.0	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	4
12-13	.0	.0	.0	1.0	1.9	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	7
>13	.0	.0	.0	.0	.0	1.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	12
INDET	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
TOTAL	0	2	31	38	17	4	9	0	1	0	0	0	0	0	0	0	0	0	0	104	5
PCT	.0	1.9	29.8	36.5	16.3	3.8	8.7	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1863-1971
(OVER-ALL) 1854-1971

AREA 0002 CHRISTMAS ISLAND
10.0S 105.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	100.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.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	2.2	.0	.0	.0	.0	.0	.0	97.8
SE	1.9	1.9	.0	.0	.0	.0	.0	3.8	2.1	.0	.0	.0	.0	.0	.0	94.1
S	.0	.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	.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.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 PCT	1.3	1.3	.0	.0	.0	.0	.0	2.6	2.6	.0	.0	.0	.0	.0	.0	94.8
TOT OBS:	153															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.6	.0	.0	.0	.0	.0	.0	2.6	2.6	.0	.0	.0	.0	.0	.0	94.7
06&09	.0	2.4	.0	.0	.0	.0	.0	2.4	.0	.0	.0	.0	.0	.0	.0	97.6
12&15	.0	2.7	.0	.0	.0	.0	.0	2.7	8.1	.0	.0	.0	.0	.0	.0	89.2
18&21	2.7	.0	.0	.0	.0	.0	.0	2.7	.0	.0	.0	.0	.0	.0	.0	97.3
TOT PCT	1.3	1.3	.0	.0	.0	.0	.0	2.6	2.6	.0	.0	.0	.0	.0	.0	94.8
TOT OBS:	154															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.2	1.2	.6	.0	.0	.0		2.0	8.5	1.4	.0	4.3	2.9	1.5	.0	.4	.4
NE	.6	1.5	.4	.2	.0	.0		2.6	8.4	3.4	.0	2.9	5.4	1.8	.0	1.1	1.5
E	.8	6.9	21.9	5.5	.1	.0		35.3	15.6	36.9	.0	36.1	37.9	32.5	25.0	34.2	35.0
SE	.6	9.6	32.1	6.7	.4	.0		49.4	15.6	47.1	100.0	47.3	43.3	51.2	64.3	56.6	50.0
S	.2	2.5	3.8	.4	.0	.0		6.8	13.0	7.8	.0	4.7	5.8	8.0	10.7	5.9	9.2
SW	.2	.5	.0	.0	.0	.0		.6	4.2	.7	.0	.9	.4	1.5	.0	.0	.0
W	.2	.4	.1	.2	.0	.0		.9	11.5	.3	.0	1.6	.8	.6	.0	.0	1.5
NW	.4	1.0	.2	.1	.0	.0		1.7	6.9	1.0	.0	1.8	3.3	1.8	.0	1.1	1.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.8							.8	.0	1.4	.0	.4	.0	1.2	.0	.7	.8
TOT OBS	36	220	551	121	5	0	933		14.7	147	1	223	120	169	7	136	130
TOT PCT	3.9	23.6	59.1	13.0	.5	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.7	1.2	.1	.0	.0		2.0	8.5	1.4	3.2	1.4	.4
NE	1.2	1.0	.4	.0	.0		2.6	8.4	3.4	3.8	1.7	1.3
E	3.1	12.8	18.3	1.0	.0		35.3	15.6	36.7	36.7	32.2	34.6
SE	2.8	21.6	23.5	1.4	.0		49.4	15.6	47.3	45.9	51.7	52.4
S	.7	3.9	2.2	.0	.0		6.8	13.0	7.8	9.1	8.1	7.5
SW	.6	.0	.0	.0	.0		.6	4.2	.7	.7	1.4	.0
W	.3	.3	.2	.1	.0		.9	11.5	.3	1.3	.6	.8
NW	1.1	.6	.0	.1	.0		1.7	6.9	1.0	2.3	1.7	1.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.8						.8	.0	1.4	.3	1.1	.8
TOT OBS	105	387	417	24	0	933		14.7	148	343	176	266
TOT PCT	11.3	41.5	44.7	2.6	.0		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1863-1971
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.4	4.7	23.6	54.7	15.5	.0	.0	14.3	100.0	148
06&09	.3	4.1	22.4	60.9	11.4	.9	.0	14.7	100.0	343
12&15	1.1	4.3	27.3	59.1	10.2	.0	.0	14.1	100.0	176
18&21	.8	1.5	22.6	59.0	15.4	.8	.0	15.3	100.0	266
TOT	7	29	220	551	121	5	0	14.7		933
PCT	.8	3.1	23.6	59.1	13.0	.5	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.0		.0
NE	.0	.2	.9	.2		6.6
E	6.4	6.6	8.7	.7		4.3
SE	17.2	21.2	21.5	5.7		4.0
S	2.8	4.0	1.9	.0		3.4
SW	.0	1.9	.0	.0		3.5
W	.0	.0	.0	.0		.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	28	36	35	7	106	4.0
TOT PCT	26.4	34.0	33.0	6.6	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NE	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	1.2	
E	.0	.0	.0	.7	.7	.9	.0	.0	.0	.0	20.0	
SE	.0	.0	.0	3.1	4.7	2.8	.9	.0	.0	.0	54.0	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.7	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	0	0	3	4	6	4	1	0	0	0	91	106
TOT PCT	.0	.0	.0	3.8	5.7	3.8	.9	.0	.0	.0	85.8	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) • OR >10	• OR >5	• OR >2	• OR >1	• OR >1/2	• OR >1/4	• OR >50YD	• OR >0
• OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
• OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
• OR >3500	.9	.9	.9	.9	.9	.9	.9	.9
• OR >2000	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
• OR >1000	6.5	9.3	10.3	10.3	10.3	10.3	10.3	10.3
• OR >600	9.3	13.1	14.0	14.0	14.0	14.0	14.0	14.0
• OR >300	9.3	13.1	14.0	14.0	14.0	14.0	14.0	14.0
• OR >150	9.3	13.1	14.0	14.0	14.0	14.0	14.0	14.0
• OR > 0	9.3	13.1	14.0	14.0	14.0	14.0	14.0	14.0
TOTAL	10	14	15	15	15	15	15	15

TOTAL NUMBER OF OBS: 107 PCT FREQ NM <5/8: 86.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
5.8	18.3	19.2	25.0	16.7	3.3	5.0	2.5	4.2	.0	120

PERIOD: (PRIMARY) 1863-1971
(OVER-ALL) 1854-1971

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.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	.7	.0	.0	.0	.0	.0	.0	.7	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.7	
5<10	PCP	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	2.0	
	NO PCP	.7	.2	1.1	6.0	1.1	.0	.0	.0	.0	.0	9.2	
	TOT %	.7	.2	1.1	8.0	1.1	.0	.0	.0	.0	.0	11.1	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.8	21.1	60.1	4.9	1.3	.0	.0	.0	.0	88.2	
	TOT %	.0	.8	21.1	60.1	4.9	1.3	.0	.0	.0	.0	88.2	
	TOT OBS												153
	TOT PCT	.7	1.0	22.2	68.6	6.0	1.3	.0	.0	.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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.6	.0	.0	.0	.0	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.6	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	3.9	.5	.0	.0	.0	.0		4.4	
	11-21	.6	.2	.5	3.8	.6	.0	.0	.0	.0		5.7	
	22+	.0	.0	.6	.0	.0	.0	.0	.0	.0		.6	
	TOT %	.6	.2	1.1	7.7	1.1	.0	.0	.0	.0	.0	10.7	
10+	0-3	.0	.0	1.7	1.4	.0	.6	.0	.0	.0	.0	3.8	
	4-10	.0	.8	14.3	23.6	2.8	.6	.0	.0	.0		42.1	
	11-21	.0	.0	5.7	33.3	1.9	.0	.0	.0	.0		40.9	
	22+	.0	.0	.8	1.1	.0	.0	.0	.0	.0		1.9	
	TOT %	.0	.8	22.5	59.4	4.7	1.3	.0	.0	.0	.0	88.7	
	TOT OBS												159
	TOT PCT	.6	.9	23.6	67.8	5.8	1.3	.0	.0	.0	.0	100.0	

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	.0	2.9	5.9	5.9	.0	.0	.0	.0	14.7	85.3	34
06E09	.0	.0	.0	3.6	3.6	3.6	.0	.0	.0	.0	10.7	89.3	28
12E15	.0	.0	.0	.0	3.4	.0	3.4	.0	.0	.0	6.9	93.1	29
18E21	.0	.0	.0	7.7	7.7	3.8	.0	.0	.0	.0	19.2	80.8	26
TOT	0	0	0	4	6	4	1	0	0	0	15	102	117
PCT	.0	.0	.0	3.4	5.1	3.4	.9	.0	.0	.0	12.8	87.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.0	.0	.0	2.6	7.7	89.7	39
06E09	.0	.0	.0	.0	11.1	88.9	45
12E15	.0	.0	.0	.0	13.5	86.5	37
18E21	.0	.0	.0	.0	10.3	89.7	39
TOT	0	0	0	1	17	142	160
PCT	.0	.0	.0	.6	10.6	88.8	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	.0	6.5	9.7	83.9	31
06E09	.0	.0	3.6	7.1	89.3	28
12E15	.0	.0	.0	8.0	92.0	25
18E21	.0	.0	3.7	13.0	78.3	23
TOT	0	0	5	10	92	107
PCT	.0	.0	4.7	9.3	86.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	1.9	.9	.0	.0	3	2.8
80/84	.0	.0	.0	.0	2.8	16.7	9.3	1.9	33	30.6
75/79	.0	.0	.0	.0	1.9	17.6	41.7	5.6	72	66.7
TOTAL	0	0	0	0	7	38	55	8	108	100.0
PCT	.0	.0	.0	.0	6.5	35.2	50.9	7.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.9	1.9	.0	.0	.0	.0	.0	.0
	.0	.0	7.6	20.6	2.3	.0	.0	.0	.0	.0
	.0	1.2	14.8	44.4	6.3	.0	.0	.0	.0	.0
	.0	1.2	23.4	66.9	8.6	.0	.0	.0	.0	.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	87	85	82	79	76	74	73	79.2	144
06E09	89	86	84	80	77	75	66	80.4	335
12E15	85	84	82	79	76	75	74	79.1	171
18E21	85	83	81	78	76	73	69	78.2	253
TOT	89	85	83	79	76	73	66	79.4	903

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	.0	34.4	50.0	15.6	82	32
06E09	.0	.0	19.2	53.8	19.2	7.7	77	26
12E15	.0	.0	7.1	25.0	67.9	.0	80	28
18E21	.0	.0	4.3	28.1	65.2	4.3	82	23
TOT	0	0	8	38	55	8	80	109

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TABLE 17

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

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	.0	.8	.8	2	.0	1.6
5	.0	.0	.0	.0	.8	.0	.0	1	.0	.8
4	.0	.0	.0	.0	2.5	.8	.0	4	.0	3.3
3	.0	.0	.0	.0	1.6	.0	.0	2	.0	1.6
2	.0	.0	.0	4.1	7.4	.0	.0	14	.0	11.5
1	.0	.0	.0	9.8	4.1	.0	.0	17	.0	13.9
0	.0	.0	.0	13.9	4.9	.0	.0	23	.0	18.9
-1	.0	.0	.0	16.4	.0	.0	.0	20	.0	16.4
-2	.0	.0	2.5	9.8	2.5	.0	.0	18	.0	14.8
-3	.0	.0	.0	7.4	.0	.0	.0	9	.0	7.4
-4	.0	.8	.8	4.9	.0	.0	.0	8	.0	6.6
-5	.8	.0	.8	.8	.0	.0	.0	3	.0	2.5
-6	.0	.0	.8	.0	.0	.0	.0	1	.0	.8
TOTAL	1		6		24		4		0	122
		1		82		2		122		
PCT	.8	.8	4.9	67.2	23.8	1.6	.8	100.0		100.0

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

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

N

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

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.4	.0	.0	.0	.4
	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.4	.0	.0	.0	.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.7	1.5	.0	.0	.0	5.1
3-4	1.1	3.7	.0	.0	.0	.0	4.8
5-6	.0	.0	3.3	.0	.0	.0	3.3
7	.0	.0	1.1	1.1	.0	.0	2.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	7.4	5.9	1.1	.0	.0	15.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
	.0	1.5	.0	.0	.0	.0	1.5
	.0	13.2	7.7	.0	.0	.0	21.0
	1.8	5.1	21.7	.0	.0	.0	28.7
	.0	2.9	9.6	.0	.0	.0	12.5
	.0	.0	4.8	.4	.0	.0	5.1
	.0	.0	1.5	.0	.0	.0	1.5
	.0	.0	.0	1.5	.0	.0	1.5
	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.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	22.8	45.2	1.8	.0	.0	71.7

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TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.7	1.1	.0	.0	.0	4.8
3-4	.0	1.5	3.3	.0	.0	.0	4.8
5-6	.0	.0	1.5	.0	.0	.0	1.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.1	5.9	.0	.0	.0	11.0

SW

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

W

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

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	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	20.6	10.3	.0	.0	.0	32.4	
3-4	2.9	10.3	25.0	.0	.0	.0	38.2	
5-6	.0	2.9	14.7	.0	.0	.0	17.6	
7	.0	.0	5.9	1.5	.0	.0	7.4	
8-9	.0	.0	1.5	.0	.0	.0	1.5	
10-11	.0	.0	.0	1.5	.0	.0	1.5	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.4	35.3	57.4	2.9	.0	.0	100.0	68

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.9	12.6	22.3	7.8	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	47	3
6-7	.0	1.0	12.6	9.7	1.9	4.9	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	5
8-9	.0	1.0	5.8	1.0	1.0	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	5
10-11	.0	1.0	1.0	1.0	1.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	6
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	.0	2.9	1.9	.0	.0	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	4
TOTAL	2	19	45	20	5	7	4	1	0	0	0	0	0	0	0	0	0	0	0	103	4
PCT	1.9	18.4	43.7	19.4	4.9	6.8	3.9	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1862-1971
(OVER-ALL) 1854-1971

AREA 0002 CHRISTMAS ISLAND
10.0S 104.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NE	14.3	.0	.0	.0	.0	.0	.0	14.3	.0	.0	.0	.0	.0	.0	.0	85.7
E	4.4	.0	.0	.0	.0	.0	.0	4.4	4.4	.0	.0	.0	.0	.0	.0	91.2
SE	.4	3.0	.0	.0	.0	.0	.0	3.4	4.9	.0	.0	.0	.0	.0	.0	91.7
S	4.5	.0	6.0	.0	.0	.0	.0	10.4	6.0	.0	.0	.0	.0	.0	.0	83.5
SW	.0	.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	.0	100.0
NW	40.0	.0	40.0	.0	.0	.0	.0	40.0	.0	.0	.0	.0	.0	.0	.0	60.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	50.0	.0	.0	.0	.0	.0	.0	50.0	.0	.0	.0	.0	.0	.0	.0	50.0
TOT PCT	3.6	1.8	1.8	.0	.0	.0	.0	6.3	4.5	.0	.0	.0	.0	.0	.0	89.2
TOT OBS:	111															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.0	.0	.0	.0	.0	.0	.0	.0	10.3	.0	.0	.0	.0	.0	.0	89.7
06&09	2.4	2.4	2.4	.0	.0	.0	.0	7.3	4.9	.0	.0	.0	.0	.0	.0	87.8
12&15	3.8	3.8	.0	.0	.0	.0	.0	7.7	3.8	.0	.0	.0	.0	.0	.0	88.5
18&21	9.5	.0	4.8	.0	.0	.0	.0	9.5	.0	4.8	.0	.0	.0	.0	.0	85.7
TOT PCT	3.4	1.7	1.7	.0	.0	.0	.0	6.0	5.1	.9	.0	.0	.0	.0	.0	88.0
TOT OBS:	117															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.3	1.0	.2	.3	.0	.0		1.8	9.5	.5	.0	2.5	2.7	2.3	.0	1.2	1.7
NE	.2	1.6	.2	.0	.0	.0		2.0	7.6	1.1	.0	2.8	2.7	.2	.0	4.1	1.7
E	1.0	4.3	13.6	2.2	.0	.0		21.0	14.3	24.7	37.5	23.9	17.0	20.2	.0	13.1	23.3
SE	.5	14.0	27.5	5.3	.0	.0		47.3	13.9	45.5	62.5	44.5	45.5	49.1	.0	30.9	48.9
S	.5	6.2	7.2	.5	.0	.0		14.4	11.6	14.9	.0	11.5	17.0	17.2	.0	15.7	12.5
SW	.0	1.9	1.1	.1	.0	.3		3.3	13.4	3.7	.0	3.4	3.6	2.8	.0	3.5	3.4
W	.3	1.2	1.6	.3	.0	.4		4.0	15.7	4.8	.0	3.2	4.5	1.8	.0	5.8	5.1
NW	.8	1.6	1.6	.6	.0	.0		4.7	11.4	4.8	.0	6.7	7.1	3.7	.0	3.5	2.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4							1.4	.1	.0	.0	1.4	.0	2.8	.0	2.3	1.1
TOT OBS	29	104	306	53	0	4	576		13.2	94	2	141	56	109	0	86	88
TOT PCT	5.0	31.9	53.1	9.2	.0	.7		100.0		100.0	100.0	100.0	100.0	100.0	.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.7	.8	.3	.0	.0		1.8	9.5	.5	2.5	2.3	1.4
NE	1.0	.9	.2	.0	.0		2.0	7.6	1.0	2.8	.2	2.9
E	2.8	8.0	10.1	.1	.0		21.0	14.3	25.0	22.0	20.2	18.2
SE	4.7	25.8	16.0	.8	.0		47.3	13.9	45.8	44.8	49.1	49.9
S	2.4	9.0	3.0	.0	.0		14.4	11.6	14.6	13.1	17.2	14.1
SW	1.2	1.3	.6	.0	.3		3.3	13.4	3.6	3.4	2.8	3.4
W	1.5	1.2	.8	.1	.4		4.0	15.7	4.7	3.6	1.8	5.5
NW	1.7	1.4	1.5	.1	.0		4.7	11.4	4.7	6.9	3.7	2.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.4						1.4	.1	.0	1.0	2.8	1.7
TOT OBS	100	279	187	6	4	576		13.2	96	197	109	174
TOT PCT	17.4	48.4	32.5	1.0	.7		100.0		100.0	100.0	100.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1862-1971
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	4.2	34.4	51.0	10.4	.0	.0	12.8	100.0	96
06&09	1.0	4.6	32.0	55.3	6.6	.0	.5	12.8	100.0	197
12&15	2.8	3.7	23.9	58.7	10.1	.0	.9	13.8	100.0	109
18&21	1.7	2.3	35.6	48.3	10.9	.0	1.1	13.5	100.0	174
TOT	8	21	184	306	53	0	4	13.2		576
PCT	1.4	3.6	31.9	53.1	9.2	.0	.7		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.3	1.6	.0		7.0
NE	.0	1.1	.3	.5		4.8
E	3.6	3.0	8.2	2.7		5.0
SE	10.2	16.8	25.3	3.8		4.6
S	.5	4.7	8.0	2.5		5.4
SW	.0	1.1	.0	1.4		5.7
W	.0	.0	.0	.0		.0
NW	.0	.0	1.6	1.1		7.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	1.1	1.1		7.0
TOT OBS	13	24	42	12	91	5.0
TOT PCT	14.3	29.4	46.2	13.2	100.0	

TABLE 6

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

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	
NE	.0	.0	.0	.0	.3	.3	.3	.0	.0	.0	1.1	
E	.0	.0	.0	.8	4.7	1.6	.0	.0	.0	.0	10.4	
SE	.0	.0	1.1	2.5	6.9	5.8	1.1	.0	.0	.0	38.7	
S	.0	.0	.0	1.6	3.6	1.1	.0	.0	.0	1.1	8.0	
SW	.0	.0	.0	.3	.0	1.1	.0	.0	.0	.0	1.1	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	1.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	1.1	
TOT OBS	0	0	1	5	15	10	1	0	0	1	58	91
TOT PCT	.0	.0	1.1	5.5	16.5	11.0	1.1	.0	.0	1.1	63.7	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
* OR >5000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
* OR >3500	1.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
* OR >2000	8.5	11.7	12.8	12.8	12.8	12.8	12.8	12.8
* OR >1000	14.1	26.6	28.7	28.7	28.7	28.7	28.7	28.7
* OR >600	20.2	31.9	34.0	34.0	34.0	34.0	34.0	34.0
* OR >300	20.2	33.0	35.1	35.1	35.1	35.1	35.1	35.1
* OR >150	20.2	33.0	35.1	35.1	35.1	35.1	35.1	35.1
* OR > 0	20.2	33.0	35.1	35.1	35.1	35.1	35.1	35.1
TOTAL	19	31	33	33	33	33	33	33

TOTAL NUMBER OF OBS: 94 PCT FREQ NM <5/8: 64.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
7.0	14.0	17.0	25.0	8.0	8.0	9.0	9.0	8.0	.0	100

PERIOD: (PRIMARY) 1862-1971
(OVER-ALL) 1854-1971

TABLE 8

AREA 0002 CHRISTMAS ISLAND
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PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	1.8	.0	.0	.0	.9	.0	.9	3.6	
2<5	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	1.8	.0	.0	.0	.9	.0	.9	3.6	
	PCP	.0	.	.0	.2	.7	.0	.0	.0	.0	.0	.9	
5<10	NO PCP	.0	.	1.4	9.5	2.5	1.1	.0	.0	.0	.0	14.4	
	TOT %	.0	.0	1.4	9.7	3.2	1.1	.0	.0	.0	.0	15.3	
	PCP	.0	.2	.7	.0	.9	.0	.0	.0	.0	.0	1.8	
10+	NO PCP	1.4	1.4	13.3	48.2	11.0	.9	.9	1.4	.0	.9	79.3	
	TOT %	1.4	1.6	14.0	48.2	11.9	.9	.9	1.4	.0	.9	81.1	
	TOT OBS												111
	TOT PCT	1.4	1.6	15.3	59.7	13.1	2.0	.9	2.3	.0	1.8	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	
2<5	4-10	.0	.0	.0	.0	.0	.0	.0	.8	.0		.8	
	11-21	.0	.0	.0	1.6	.0	.0	.0	.0	.0		1.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	1.6	.0	.0	.0	.8	.0	.8	3.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	4-10	.0	.0	.0	1.7	1.4	.8	.0	.0	.0		3.9	
	11-21	.0	.0	1.2	6.6	2.9	.2	.0	.0	.0		10.9	
	22+	.0	.0	.0	1.6	.0	.0	.0	.0	.0		1.6	
	TOT %	.0	.0	1.2	9.9	4.3	1.0	.0	.0	.0	.0	16.3	
	0-2	.0	.0	1.9	.4	.0	.0	.8	.0	.0	.8	3.9	
10+	4-10	1.2	1.2	5.6	28.9	8.5	.8	.0	1.2	.0		47.3	
	11-21	.0	.2	4.5	17.4	5.0	.0	.0	.0	.0		27.1	
	22+	.0	.0	.0	1.7	.6	.0	.0	.0	.0		2.3	
	TOT %	1.2	1.4	12.0	48.4	14.1	.8	.8	1.2	.0	.8	80.6	
	TOT OBS												129
	TOT PCT	1.2	1.4	13.2	59.9	18.4	1.7	.8	1.9	.0	1.6	100.0	

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PERIOD: (PRIMARY) 1862-1971
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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	3.8	3.8	7.7	15.4	.0	.0	.0	3.8	34.6	65.4	26
06E09	.0	.0	.0	2.9	20.6	5.9	2.9	.0	.0	.0	32.4	67.6	34
12E15	.0	.0	.0	13.0	13.0	4.3	.0	.0	.0	.0	30.4	69.6	23
18E21	.0	.0	.0	.0	18.8	18.8	.0	.0	.0	.0	37.5	62.5	16
TOT	0	0	1	5	15	10	1	0	0	1	33	66	99
PCT	.0	.0	1.0	5.1	15.2	10.1	1.0	.0	.0	1.0	33.3	66.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.0	.0	.0	.0	24.2	75.8	33
06E09	.0	.0	.0	4.3	15.2	80.4	46
12E15	.0	.0	.0	3.6	10.7	85.7	28
18E21	.0	.0	.0	3.6	10.7	85.7	28
TOT	0	0	0	4	21	110	135
PCT	.0	.0	.0	3.0	15.6	81.5	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5>	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	4.2	8.3	29.2	62.5	24
06E09	.0	.0	6.3	28.1	65.6	32
12E15	.0	.0	13.6	18.2	68.2	22
18E21	.0	.0	6.3	31.3	62.5	16
TOT	0	1	8	25	61	94
PCT	.0	1.1	8.5	26.6	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
90/94	.0	.0	.0	1.0	.0	.0	.0	.0	1	1.0
85/89	.0	.0	.0	.0	1.0	2.1	.0	.0	3	3.1
80/84	.0	.0	.0	.0	4.2	36.5	28.1	6.3	72	75.0
75/79	.0	.0	.0	.0	3.1	5.2	11.5	1.0	20	20.8
TOTAL	0	0	0	1	8	42	38	7	96	100.0
PCT	.0	.0	.0	1.0	8.3	43.8	39.6	7.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.5	.5	.0	.0	.0	.0	.0
	.0	.0	1.0	1.0	.0	.0	1.0	.0	.0	.0
	1.6	1.8	14.8	43.2	9.9	1.0	.0	1.6	.0	1.0
	.0	.0	1.8	10.7	4.9	1.3	.0	1.0	.0	1.0
	1.6	1.8	17.7	55.5	15.4	2.3	1.0	2.6	.0	2.1

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	85	83	82	80	77	76	76	80.1	91
06E09	90	87	86	81	77	76	74	81.3	189
12E15	86	85	83	80	77	74	74	80.1	108
18E21	85	84	82	79	76	75	70	79.3	165
TOT	90	86	84	80	77	75	70	80.3	553

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	3.7	51.9	37.0	7.4	80	27
06E09	.0	3.0	6.1	45.5	42.4	3.0	79	33
12E15	.0	.0	14.3	33.3	38.1	14.3	79	21
18E21	.0	.0	11.1	44.4	38.9	5.6	80	18
TOT	0	1	8	44	39	7	80	99

PERIOD: (PRIMARY) 1862-1971
(OVER-ALL) 1854-1971

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TABLE 17

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

AIR-SEA TMP DIF	77 80	81 84	85 88	TOT	FOG	NO FOG
5	.0	.0	1.1	1	.0	1.1
4	.0	3.2	.0	3	.0	3.2
3	.0	4.1	2.1	4	.0	4.3
2	.0	6.4	.0	6	.0	6.4
1	3.2	1.1	.0	4	.0	4.3
0	16.0	21.3	.0	35	.0	37.2
-1	8.5	3.2	.0	11	.0	11.7
-2	11.7	5.3	.0	16	.0	17.0
-3	4.3	2.1	.0	6	.0	6.4
-4	3.2	1.1	.0	4	.0	4.3
-5	2.1	.0	.0	2	.0	2.1
-7/-8	1.1	.0	.0	1	.0	1.1
-9/-10	1.1	.0	.0	1	.0	1.1
TOTAL	48	43	3	94	0	94
PCT	51.1	45.7	3.2	100.0		100.0

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

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

N

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

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.0	.0	.0	.0	.0	2.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.5	.0	.0	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.6	.0	.0	.0	.0	2.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	5.6	.0	.0	.0	.0	5.6
3-4	.0	.0	6.6	.0	.0	.0	6.6
5-6	.0	1.5	.0	.0	.0	.0	1.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.1	6.6	.0	.0	.0	13.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.0	.0	.0	.0	.0	2.0
1-2	.0	10.7	4.1	.0	.0	.0	14.8
3-4	.0	14.8	10.2	.0	.0	.0	25.0
5-6	.0	.0	6.6	.0	.0	.0	6.6
7	.0	.0	4.1	.0	.0	.0	4.1
8-9	.0	.0	6.1	.0	.0	.0	6.1
10-11	.0	.0	.0	4.6	.0	.0	4.6
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	27.6	31.1	4.6	.0	.0	63.3

PERIOD: (OVER-ALL) 1963-1971

NOVEMBER

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TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	4.1	.0	.0	.0	.0	4.1
3-4	.0	3.6	5.1	.0	.0	.0	8.7
5-6	.0	.0	1.5	.0	.0	.0	1.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	1.5	.0	.0	1.5
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.7	6.6	1.5	.0	.0	15.8

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	2.0	.5	.0	.0	.0	2.6
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.0	.5	.0	.0	.0	2.6

W

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

NW

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

TOTAL PCT

HGT	TOTAL PCT
<1	.0
1-2	.0
3-4	.0
5-6	.0
7	.0
8-9	.0
10-11	.0
12	.0
13-16	.0
17-19	.0
20-22	.0
23-25	.0
26-32	.0
33-40	.0
41-48	.0
49-60	.0
61-70	.0
71-86	.0
87+	.0
TOT PCT	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	4.1	.0	.0	.0	.0	4.1	
1-2	.0	22.4	4.1	.0	.0	.0	26.5	
3-4	.0	20.4	22.4	.0	.0	.0	42.9	
5-6	.0	2.0	8.2	.0	.0	.0	10.2	
7	.0	.0	4.1	.0	.0	.0	4.1	
8-9	.0	.0	6.1	.0	.0	.0	6.1	
10-11	.0	.0	.0	6.1	.0	.0	6.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	49.0	44.9	6.1	.0	.0	100.0	49

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.2	6.2	12.3	8.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	3
6-7	.0	8.6	16.0	7.4	4.9	4.9	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38	5
8-9	.0	.0	6.2	3.7	3.7	1.2	1.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	6
10-11	.0	.0	2.5	1.2	.0	.0	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	7
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	.0	.0	.0	1.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
TOTAL	1	12	30	18	8	5	3	4	0	0	0	0	0	0	0	0	0	0	0	81	5
PCT	1.2	14.8	37.0	22.2	9.9	6.2	3.7	4.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1861-1971
(OVER-ALL) 1854-1971

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10.25 105.26

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	9.5	.0	.0	.0	.0		.0	90.5
NE	.0	21.1	.0	.0	.0	.0	.0	21.1	.0	.0	.0	.0	.0		.0	78.9
E	.0	37.5	.0	.0	.0	.0	.0	37.5	.0	.0	.0	.0	.0		.0	62.5
SE	.0	8.0	.7	.0	.0	.0	.0	8.7	2.9	8.7	.0	.0	.0		.0	79.7
S	.0	.0	2.6	.0	.0	.0	.0	2.6	.0	3.5	.0	.0	.0		.0	93.9
SW	9.8	.0	.0	.0	.0	.0	.0	9.8	.0	.0	.0	.0	.0		.0	90.2
W	.0	9.4	.0	.0	.0	.0	.0	9.4	.0	.0	.0	.0	.0		.0	90.6
NW	.0	3.4	.0	.0	.0	.0	.0	3.4	13.8	.0	.0	.0	.0		.0	82.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	50.0	.0	.0	.0	.0	.0	.0	50.0	.0	.0	.0	.0	.0		.0	50.0
TOT PCT	1.8	6.3	.9	.0	.0	.0	.0	8.9	2.7	3.6	.0	.0	.0		.0	84.8
TOT OBS:	112															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00E03	.0	4.0	.0	.0	.0	.0	.0	4.0	.0	.0	.0	.0	.0		.0	96.0
06E09	2.5	7.5	.0	.0	.0	.0	.0	10.0	5.0	.0	.0	.0	.0		.0	85.0
12E15	.0	8.0	.0	.0	.0	.0	.0	8.0	.0	4.0	.0	.0	.0		.0	88.0
18E21	4.2	4.2	4.2	.0	.0	.0	.0	12.5	4.2	12.5	.0	.0	.0		.0	70.8
TOT PCT	1.8	6.1	.9	.0	.0	.0	.0	8.8	2.6	3.5	.0	.0	.0		.0	85.1
TOT OBS:	114															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.5	1.8	1.1	.0	.0	.0		4.4	6.5	3.5	.0	5.3	1.9	3.4	.0	6.3	5.1
NE	1.2	2.8	.6	.0	.0	.0		4.6	6.4	2.8	.0	7.5	3.8	3.8	.0	3.7	3.7
E	.9	4.3	1.7	.2	.0	.0		7.2	9.0	7.6	50.0	4.7	7.5	5.0	100.0	9.2	8.8
SE	1.2	13.2	7.3	.3	.0	.0		22.0	9.6	22.2	.0	24.4	23.6	22.2	.0	20.6	18.4
S	2.1	12.4	11.9	.7	.0	.0		27.1	10.6	33.9	50.0	20.9	30.2	27.8	.0	31.3	23.5
SW	2.7	6.7	8.2	.0	.0	.0		17.6	9.4	15.2	.0	17.7	19.8	19.7	.0	14.7	19.9
W	2.1	4.7	3.6	.6	.0	.0		11.0	9.7	8.2	.0	12.2	10.4	13.8	.0	7.4	13.2
NW	.6	2.4	.8	.0	.0	.0		3.8	7.9	4.1	.0	4.9	2.8	1.9	.0	2.6	5.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.3							2.3	.0	2.5	.0	2.4	.0	2.5	.0	4.4	1.5
TOT OBS	70	231	168	9	0	0	478		9.2	79	2	127	53	80	1	68	68
TOT PCT	14.6	48.3	35.1	1.9	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)				
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21	
N	2.6	1.8	.0	.0	.0		4.4	6.5	3.4	4.3	3.4	5.7	
NE	2.6	1.9	.0	.0	.0		4.6	6.4	2.8	6.4	3.7	3.7	
E	2.2	4.3	.6	.0	.0		7.2	9.0	8.6	5.6	6.2	9.0	
SE	6.3	14.1	1.5	.1	.0		22.0	9.6	21.6	24.2	21.9	19.5	
S	7.0	15.5	4.6	.1	.0		27.1	10.6	34.3	23.6	27.5	27.4	
SW	6.4	9.3	1.9	.0	.0		17.6	9.4	14.8	18.3	19.4	17.3	
W	4.2	4.8	1.8	.2	.0		11.0	9.7	8.0	11.7	13.6	10.3	
NW	1.3	2.5	.1	.0	.0		3.8	7.9	4.0	4.3	1.9	4.2	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	2.3						2.3	.0	2.5	1.7	2.5	2.9	
TOT OBS	167	259	50	2	0	478		9.2	81	180	81	136	
TOT PCT	34.9	54.2	10.5	.4	.0		100.0		100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00603	2.5	16.0	39.5	40.7	1.2	.0	.0	9.1	100.0	81
06609	1.7	11.1	49.4	34.4	3.3	.0	.0	9.5	100.0	180
12615	2.5	13.6	42.7	37.0	1.2	.0	.0	9.2	100.0	81
18621	2.9	11.0	53.7	31.6	.7	.0	.0	9.0	100.0	136
TOT	11	59	231	168	9	0	0	9.2		478
PCT	2.3	12.3	48.3	35.1	1.9	.0	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.0	3.9	1.2	.0		3.7
NE	.0	.6	1.2	3.6		7.2
E	2.1	.0	2.4	.9		4.7
SE	2.6	6.5	12.5	3.6		5.1
S	6.3	4.2	12.5	4.8		5.0
SW	1.2	1.8	5.7	1.8		5.6
W	1.2	.6	3.6	1.8		5.6
NW	1.8	2.7	2.7	.3		4.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	1.2	1.2		6.5
TOT OBS	16	17	36	15	84	5.0
TOT PCT	19.0	20.2	42.9	17.9	100.0	

TABLE 6

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

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	6.8	
.0	.0	1.2	.0	.0	2.4	.0	.0	.0	.0	1.8	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4	
.3	.0	.0	.0	3.9	.0	.6	.3	1.2	.0	19.9	
.9	.0	1.2	.0	2.1	2.1	.6	.9	.0	.0	19.9	
.0	.0	.0	2.4	.3	1.5	.0	.0	.0	.0	6.3	
.0	.0	.0	.9	1.8	.0	.0	.0	.0	.0	4.5	
.0	.0	.0	.3	1.5	.0	.0	.0	.0	.3	5.7	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	1.2	
1	0	3	3	9	5	1	1	1	0	60	84
1.2	.0	3.6	3.6	10.7	5.0	1.2	1.2	1.2	.0	71.4	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
* OR >5000	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
* OR >3500	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
* OR >2000	8.3	9.5	9.5	9.5	9.5	9.5	9.5	9.5
* OR >1000	15.5	19.0	20.2	20.2	20.2	20.2	20.2	20.2
* OR >600	19.0	22.6	23.8	23.8	23.8	23.8	23.8	23.8
* OR >300	20.2	25.0	27.4	27.4	27.4	27.4	27.4	27.4
* OR >150	20.2	25.0	27.4	27.4	27.4	27.4	27.4	27.4
* OR > 0	20.2	26.2	28.6	28.6	28.6	28.6	28.6	28.6
TOTAL	17	22	24	24	24	24	24	24

TOTAL NUMBER OF OBS: 84 PCT FREQ NH <5/8: 71.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
6.7	22.5	19.1	15.7	9.0	4.5	9.0	4.5	7.9	1.1	89

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TABLE A

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.4	.1	.0	.0	.0	.0	.0	.0	.9	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0	.9	
2<5	PCP	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.9	
	NO PCP	.0	.0	.0	.9	.9	.0	.0	.0	.0	.0	1.8	
	TOT %	.0	.0	.0	.9	.9	.9	.0	.0	.0	.0	2.7	
5<10	PCP	.0	.9	.9	2.0	.7	.0	.7	.2	.0	.9	6.3	
	NO PCP	2.7	.0	.9	7.6	2.7	.4	1.8	.0	.0	.0	16.1	
	TOT %	2.7	.9	1.8	9.6	3.3	.4	2.5	.2	.0	.9	22.3	
10+	PCP	.0	.0	.7	.2	.0	.0	.0	.0	.0	.0	.9	
	NO PCP	6.7	3.3	2.5	19.6	21.4	7.8	4.7	6.3	.0	.9	73.2	
	TOT %	6.7	3.3	3.1	19.9	21.4	7.8	4.7	6.3	.0	.9	74.1	
	TOT OBS												112
	TOT PCT	9.4	4.2	5.4	30.8	25.7	9.2	7.1	6.5	.0	1.8	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.4	.4	.0	.0	.0	.0	.0		.8	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0	.8	
2<5	0-3	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.8	
	4-10	.0	.0	.0	.0	.8	.8	.0	.0	.0		1.6	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.8	.8	.8	.0	.0	.0	.0	2.5	
5<10	0-3	.0	.0	.0	1.2	.4	.0	.8	.0	.0	.8	3.3	
	4-10	2.5	.8	1.6	6.6	.8	.0	.8	.0	.0		13.1	
	11-21	.0	.0	.0	1.0	1.8	.4	.6	.2	.0		4.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	2.5	.8	1.6	8.8	3.1	.4	2.3	.2	.0	.8	20.5	
10+	0-3	2.0	.4	.8	.0	3.9	2.0	.6	.0	.0	.8	10.7	
	4-10	1.4	2.5	1.4	12.7	15.4	3.5	2.3	4.3	.0		43.4	
	11-21	2.7	.2	.6	9.6	4.5	1.6	1.4	1.4	.0		22.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	6.1	3.1	2.9	22.3	23.8	7.2	4.3	5.7	.0	.3	76.2	
	TOT OBS												122
	TOT PCT	8.6	3.9	4.9	32.4	27.7	8.4	6.6	9.9	.0	1.8	100.0	

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	4.5	9.1	13.6	13.6	.0	.0	.0	.0	40.9	59.1	22
06&09	.0	.0	3.1	.0	9.4	6.3	3.1	.0	3.1	.0	25.0	75.0	32
12&15	.0	.0	.0	4.8	14.3	.0	.0	.0	.0	.0	19.0	81.0	21
18&21	7.1	.0	7.1	.0	.0	.0	.0	7.1	.0	.0	21.4	78.6	14
TOT	1	0	3	3	9	5	1	1	1	0	24	65	89
PCT	1.1	.0	3.4	3.4	10.1	5.6	1.1	1.1	1.1	.0	27.0	73.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	3.7	11.1	85.2	27
06&09	.0	.0	2.3	2.3	15.9	79.5	44
12&15	.0	.0	.0	4.0	20.0	76.0	25
18&21	.0	.0	.0	.0	39.3	60.7	28
TOT	0	0	1	3	26	94	124
PCT	.0	.0	.8	2.4	21.0	75.8	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	4.8	14.3	28.6	57.1	21
06&09	.0	3.4	6.9	24.1	69.0	29
12&15	.0	.0	10.0	10.0	80.0	20
18&21	7.1	14.3	14.3	7.1	78.6	14
TOT	1	4	9	16	59	84
PCT	1.2	4.8	10.7	19.0	70.2	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
85/89	.0	.0	.0	.0	3.1	4.2	.0	.0	7	7.3
80/84	.0	.0	.0	.0	6.3	33.3	31.3	8.3	76	79.2
75/79	.0	.0	.0	.0	.0	5.2	4.2	4.2	13	13.5
TOTAL	0	0	0	0	9	41	34	12	96	100.0
PCT	.0	.0	.0	.0	9.4	42.7	35.4	12.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	1.0	.0	.0	2.9	2.3	.0	.0	1.0	.0	.0
	9.1	4.7	5.5	22.7	20.1	6.3	5.7	4.2	.0	1.0
	.0	.0	.0	3.6	4.7	2.3	.8	1.0	.0	1.0
	10.2	4.7	5.5	29.2	27.1	8.6	6.5	6.3	.0	2.1

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	84	83	83	81	77	77	77	80.6	81
06&09	90	89	87	83	78	77	76	82.7	175
12&15	85	84	84	81	78	77	77	81.1	80
18&21	84	83	82	80	77	76	75	80.0	137
TOT	90	88	86	81	77	77	75	81.3	473

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	5.0	40.0	45.0	10.0	81	20
06&09	.0	.0	25.0	40.6	25.0	9.4	77	32
12&15	.0	.0	.0	43.5	34.8	21.7	83	23
18&21	.0	.0	.0	43.5	47.8	8.7	82	23
TOT	0	0	9	41	36	12	80	98

DECEMBER

PERIOD: (PRIMARY) 1861-1971
(OVER-ALL) 1854-1971

AREA 0002 CHRISTMAS ISLAND
10.2S 105.2E

TABLE 17

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

AIR-SEA TMP DIF	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
5	.0	.0	4.4	1.1	5	.0	5.6
4	.0	1.1	1.1	.0	2	.0	2.2
3	.0	1.1	.0	.0	1	.0	1.1
2	.0	5.6	.0	.0	5	.0	5.6
1	1.1	11.1	.0	.0	11	.0	12.2
0	5.6	14.4	.0	.0	18	.0	20.0
-1	7.8	14.4	.0	.0	20	.0	22.2
-2	7.8	7.8	1.1	.0	15	.0	16.7
-3	2.2	.0	.0	.0	2	.0	2.2
-4	4.4	3.3	.0	.0	7	.0	7.8
-5	2.2	1.1	.0	.0	3	.0	3.3
-6	1.1	.0	.0	.0	1	.0	1.1
TOTAL	29		6			0	
		54		1	90		90
PCT	32.2	60.0	6.7	1.1	100.0		100.0

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.9	.0	.0	.0	.0	.0	2.9
1-2	4.3	.0	.0	.0	.0	.0	4.3
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	2.9	2.9	.0	.0	.0	5.7
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	7.1	2.9	2.9	.0	.0	.0	12.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	1.4	2.9	.0	.0	.0	.0	4.3
3-4	.0	5.7	.0	.0	.0	.0	5.7
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	8.6	.0	.0	.0	.0	10.0

E

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

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.9	.0	.0	.0	.0	2.9
1-2	.0	16.4	2.9	.0	.0	.0	19.3
3-4	.0	2.9	9.3	.0	.0	.0	12.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	22.1	12.1	.0	.0	.0	34.3

PERIOD: (OVER-ALL) 1963-1971 DECEMBER AREA 0002 CHRISTMAS ISLAND

TABLE 18 (CONT) 10.2S 105.2E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	15.0	2.9	.0	.0	.0	17.9	2.9	.0	.0	.0	.0	.0	2.9
3-4	.0	.0	.0	.0	.0	.0	.0	.0	6.4	.0	.0	.0	.0	6.4
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	15.0	2.9	.0	.0	.0	17.9	2.9	6.4	.0	.0	.0	.0	9.3

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	5.0	.0	.0	.0	.0	5.0	.0	2.9	.0	.0	.0	.0	2.9	
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	5.0	.0	.0	.0	.0	5.0	.0	2.9	.0	.0	.0	.0	2.9	94.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.6	2.9	.0	.0	.0	.0	11.4	
1-2	8.6	34.3	5.7	.0	.0	.0	48.6	
3-4	.0	22.9	11.4	.0	.0	.0	34.3	
5-6	.0	2.9	2.9	.0	.0	.0	5.7	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	17.1	62.9	20.0	.0	.0	.0	100.0	35

PERIOD: (OVER-ALL) 1949-1971 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	21.1	14.1	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	3
6-7	.0	1.4	22.5	18.3	4.2	1.4	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	4
8-9	.0	.0	2.8	4.2	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	0
TOTAL	2	16	28	17	6	1	0	1	0	0	0	0	0	0	0	0	0	0	0	71	4
PCT	2.8	22.5	39.4	23.9	8.5	1.4	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

ANNUAL

PERIOD: (PRIMARY) 1960-1972
(OVER-ALL) 1854-1972

AREA 0002 CHRISTMAS ISLAND
10.1S 105.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	3.2	1.1	.0	.0	.0	.0	.0	4.4	13.4	1.0	.0	.0	.0	.0	.0	64.5
NE	7.1	4.0	2.6	.0	.0	.0	.0	13.6	3.4	.0	.0	.0	.0	.0	.0	74.6
E	3.2	5.6	.6	.0	.0	.0	.0	9.4	3.0	.7	.3	.0	.0	.0	.0	86.7
SE	2.2	2.3	.5	.0	.0	.0	.0	5.0	3.3	2.2	1.3	.0	.0	.0	.0	88.4
S	1.5	4.0	.7	.0	.0	.0	.0	6.3	4.3	1.4	.0	.0	.0	.0	.0	88.1
SW	4.3	4.2	.0	.0	.0	.0	.0	8.5	1.8	.2	.0	.0	.0	.0	.0	72.9
W	.8	2.1	.0	.0	.0	.0	.0	2.1	5.3	.0	.0	.0	.0	.0	.0	90.9
NW	4.1	3.9	4.2	.0	.0	.0	.0	8.9	5.9	.1	.0	.0	.0	.0	.0	91.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.3	1.7	.0	.0	.0	.0	.0	10.0	.0	.0	.0	.0	.0	.0	.0	56.7
TOT PCT	2.1	2.3	.7	.0	.0	.0	.0	5.0	3.7	1.3	.5	.0	.0	.0	.0	89.7
TOT OBS:	1655															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.4	1.7	.7	.0	.0	.0	.0	4.8	4.2	.2	.5	.0	.0	.0	.0	90.3
06&09	2.3	2.4	.6	.0	.0	.0	.0	5.3	3.2	.2	.7	.0	.0	.0	.0	90.6
12&15	1.7	2.1	.2	.0	.0	.0	.0	4.0	3.5	1.7	.5	.0	.0	.0	.0	90.5
18&21	2.2	2.7	1.2	.0	.0	.0	.0	5.7	3.7	4.6	.0	.0	.0	.0	.0	86.3
TOT PCT	2.1	2.2	.6	.0	.0	.0	.0	4.9	3.7	1.4	.5	.0	.0	.0	.0	89.7
TOT OBS:	1684															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.6	1.2	.6	.1	*	.0		2.5	8.7	2.1	.0	3.4	2.1	2.3	.0	2.6	1.9
NE	.5	2.4	1.7	.2	*	.0		4.8	9.6	4.1	.0	6.0	5.3	3.7	4.1	4.3	4.9
E	.8	8.0	20.1	4.9	.2	.0		34.1	13.0	33.9	26.2	33.5	35.4	33.6	31.8	32.9	36.1
SE	.9	8.7	16.5	3.3	.2	.0		29.6	13.2	31.8	25.5	28.5	27.3	30.7	31.6	30.6	28.6
S	.9	5.0	9.4	.3	*	.0		9.7	11.3	10.6	11.8	7.9	11.8	10.4	3.8	10.4	8.2
SW	1.1	3.4	1.6	*	.0	*		6.1	7.2	6.0	8.0	5.8	6.5	4.4	8.8	5.4	7.0
W	.7	2.5	1.8	.3	*	*		5.4	9.0	5.1	2.1	5.5	5.0	5.5	2.5	5.3	5.4
NW	.7	2.5	1.9	.4	.1	*		5.5	9.2	4.4	1.4	6.6	5.7	4.9	.8	6.0	4.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.4							2.4	.0	1.9	.0	2.8	.9	2.3	.0	2.5	3.1
TOT OBS							8186		12.6	1282	22	2246	903	1445	35	1210	1063
TOT PCT	8.5	33.7	47.6	9.6	.6	.1		100.0		100.0	75.0	100.0	100.0	100.0	83.3	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.3	.9	.3	*	*		2.5	8.7	2.1	3.0	2.3	2.3
NE	1.4	2.4	.9	*	.0		4.8	9.6	4.0	5.8	3.7	4.6
E	3.3	14.7	14.9	1.1	*		34.1	13.0	33.9	34.1	33.5	34.4
SE	3.5	14.4	10.9	.7	*		29.6	13.2	31.8	28.1	31.0	29.6
S	2.7	5.5	1.5	*	.0		9.7	11.3	10.8	8.9	10.4	9.4
SW	2.8	2.9	.4	.0	*		6.1	7.2	6.1	5.9	6.5	6.1
W	1.7	2.7	.8	.1	.1		5.4	9.0	5.1	5.4	5.5	5.4
NW	1.8	2.7	.9	.1	.1		5.5	9.2	4.4	6.5	4.8	5.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.4						2.4	.0	1.8	2.4	2.4	2.8
TOT OBS						8186		12.6	1284	3149	1480	2273
TOT PCT	20.9	46.1	30.5	2.2	.2		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.8	5.6	36.1	47.1	8.8	.6	.0	12.5	100.0	1284
06&09	2.4	6.8	32.8	47.4	9.8	.8	.1	12.6	100.0	3149
12&15	2.4	6.1	34.7	47.9	8.3	.4	.1	12.4	100.0	1480
18&21	2.8	5.4	32.9	47.8	10.5	.4	.1	12.8	100.0	2273
TOT								12.6		8186
PCT	2.4	6.1	33.7	47.6	9.6	.6	.1		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.5	.5	1.1	.4		4.7
NE	1.0	.9	.9	.7		4.4
E	7.8	8.0	8.6	1.9		4.1
SE	8.7	12.3	16.3	3.7		4.5
S	2.5	2.5	3.6	1.0		4.8
SW	.8	1.3	2.5	.5		3.4
W	.5	.7	2.5	1.0		2.6
NW	.5	1.1	2.0	1.5		3.7
VAR	.0	.0	.0	.0		.0
CALM	.7	.4	.6	.5		3.0
TOT OBS					1281	4.5
TOT PCT	22.9	27.6	38.2	11.3	100.0	

TABLE 6

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

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.0	.2	.3	.2	.1	.0	.0	.0	1.8	
.0	.0	.1	.2	.3	.3	.1	.0	.0	.0	2.5	
.1	.0	.2	.8	2.5	1.3	.6	.1	.0	.0	20.9	
*	.1	.4	2.2	4.7	3.1	.5	.1	.1	.1	29.8	
.1	.0	.2	.4	.7	.6	.2	.1	.0	.1	7.4	
.0	.0	.1	.4	.5	.3	.0	.0	.0	.1	3.8	
.0	.0	.0	.4	.8	.4	.0	.0	.0	.0	3.1	
.0	.0	.0	.5	.9	.8	*	.2	.0	.0	2.8	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.1	.1	.2	.0	.0	.0	.0	.0	1.8	
.2	.1	1.0	5.2	10.7	7.0	1.5	.4	.1	.2	73.7	1281
											100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.3	.3	.3	.3	.3	.3	.3	.3
* OR >3000	.7	.7	.7	.7	.7	.7	.7	.7
* OR >1500	1.7	2.2	2.2	2.2	2.2	2.2	2.2	2.2
* OR >1000	6.9	8.7	9.1	9.1	9.1	9.1	9.1	9.1
* OR >600	14.4	18.8	19.7	19.7	19.7	19.7	19.7	19.7
* OR >300	17.8	23.8	24.8	24.8	24.9	24.9	24.9	24.9
* OR >150	18.2	24.5	25.7	25.7	25.8	25.8	25.8	25.8
* OR > 0	18.2	24.6	25.8	25.8	25.8	25.8	25.9	25.9
	18.2	24.8	25.9	25.9	26.0	26.0	26.1	26.1

TOTAL NUMBER OF OBS: 1301

PCT FREQ NH <5/8: 73.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
2.8	14.7	20.7	21.3	14.4	7.2	8.3	5.2	5.1 .2	1401

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TABLE 6

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
1<2	PCP	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
2<5	PCP	.0	.0	*	.3	*	.1	.0	.1	.0	.1	.8	
	NO PCP	.0	.1	.3	.3	.3	.0	.1	.1	.0	.0	1.1	
	TOT %	.0	.1	.4	.6	.4	.1	.1	.1	.0	.1	1.9	
5<10	PCP	.1	.2	.2	1.1	.2	.1	.2	.4	.0	.1	2.5	
	NO PCP	.5	*	2.5	5.6	1.0	.4	.6	.6	.0	.0	11.2	
	TOT %	.6	.2	2.7	6.7	1.2	.4	.8	1.0	.0	.1	13.7	
10+	PCP	*	.1	.7	.3	.1	.0	.1	.1	.0	.0	1.5	
	NO PCP	1.9	2.6	22.1	35.2	7.6	4.5	3.6	3.6	.0	1.6	82.7	
	TOT %	1.9	2.8	24.8	35.5	7.7	4.9	3.7	3.7	.0	1.6	84.2	
	TOT OBS												1693
	TOT PCT	2.5	3.0	26.1	42.9	9.3	5.1	4.5	4.9	.0	1.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIREC. ON VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	*	*	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
2<5	0-3	.0	.1	*	.1	.0	.1	.0	.0	.0	.1	.3	
	4-10	.0	.0	.2	.2	.2	.1	.1	.1	.0		.8	
	11-21	.0	.0	.2	.3	.2	.0	*	.1	.0		.8	
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0		.1	
	TOT %	.0	.1	.4	.6	.3	.1	.1	.2	.0	.1	2.0	
5<10	0-3	.1	.0	.1	.1	.1	.2	.2	.1	.0	.1	.9	
	4-10	.3	.2	1.0	2.6	.6	.1	.3	.3	.0		5.3	
	11-21	.1	*	1.2	3.5	.5	.2	.3	.4	.0		6.3	
	22+	.0	.0	.3	.3	.0	.0	.0	*	.0		.6	
	TOT %	.6	.2	2.6	6.4	1.2	.5	.7	.9	.0	.1	13.1	
10+	0-3	.4	.2	.9	.5	.5	.6	.3	.3	.0	1.8	5.6	
	4-10	.9	2.0	10.8	15.0	5.5	3.0	2.1	2.2	.0		41.4	
	11-21	.5	.6	11.1	18.8	1.9	.8	1.4	1.1	.0		36.3	
	22+	*	*	.3	.9	*	.0	*	.0	.0		1.4	
	TOT %	1.8	2.8	23.1	35.7	7.9	4.4	3.9	3.6	.0	1.8	84.7	
	TOT OBS												1812
	TOT PCT	2.4	3.0	26.4	42.3	9.5	5.0	4.7	4.7	.0	2.0	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NM >6/8) AND OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00E03	.0	.3	2.3	5.5	9.7	7.7	1.1	.3	.0	.8	27.6	72.4	355
06E09	.0	.0	.7	4.6	11.3	6.1	2.1	.0	.3	.0	25.1	74.9	421
12E15	.0	.0	.3	5.3	9.7	6.0	1.4	.3	.0	.0	22.6	77.4	330
18E21	1.0	.0	.6	3.6	8.7	5.6	.6	1.6	.0	.0	21.8	78.2	270
TOT													1376
PCT	.2	.1	.9	4.9	10.1	6.5	1.4	.4	.1	.2	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
00E03	.0	.0	.0	1.2	10.7	88.1	438
06E09	.0	.2	.2	1.6	11.0	87.0	566
12E15	.5	.0	.0	2.4	14.1	83.0	422
18E21	.0	.2	.0	2.6	17.1	80.0	415
TOT							1841
PCT	.1	.1	.1	1.9	13.4	84.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET/NM >6/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND/+	NM <5/8 AND 5+	TOTAL OBS
00E03	.0	2.6	8.8	20.3	70.9	339
06E09	.0	1.0	6.0	20.0	73.9	401
12E15	.0	.3	7.5	16.8	75.7	308
18E21	1.1	1.7	7.8	16.4	75.8	253
TOT						1301
PCT	.2	1.3	7.7	18.8	73.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.1	.2	.0	.1	.0		.4
85/89	.0	.0	.0	.1	2.0	3.5	.6	.0		6.2
80/84	.0	.0	.0	.2	5.5	29.5	23.8	5.2		64.2
75/79	.0	.0	.0	.0	1.0	10.7	13.3	3.8		28.7
70/74	.0	.0	.0	.0	.0	.2	.1	.1		.4
TOTAL									1285	100.0
PCT	.0	.0	.0	.3	8.8	44.0	37.8	9.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.1	.2	.0	.0	.1	.0	.0
	.1	.0	1.7	2.0	.5	.7	.6	.5	.0	.2
	2.0	2.2	16.2	23.1	6.0	3.6	3.9	3.6	.0	1.5
	.1	.6	7.1	16.2	2.4	.8	.3	.8	.0	.2
	.1	.0	*	.3	.0	.0	.0	.0	.0	.0
	2.3	3.0	27.1	41.7	9.0	5.1	4.8	5.0	.0	1.9

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	97	86	84	81	77	76	73	80.2	1252
06E09	94	38	86	82	78	76	66	81.6	3031
12E15	90	85	84	81	78	76	70	80.3	1429
18E21	88	84	83	80	77	76	69	79.5	2152
TOT	97	87	85	81	78	76	66	80.6	7864

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	5.7	40.0	43.5	10.8	80	932
06E09	.0	.7	16.7	51.4	25.2	6.0	77	395
12E15	.0	.3	5.7	42.2	40.9	10.9	80	311
18E21	.0	.0	5.1	39.9	46.3	8.6	81	265
TOT	0	4	116	575	492	116	79	1303

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TABLE 17

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

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.1	.1	.1	.1	5	.0	.4
7/8	.0	.0	.0	.0	.1	.1	.0	3	.0	.2
6	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
5	.0	.0	.0	.1	.4	.7	.4	21	.0	1.6
4	.0	.0	.0	.2	1.0	.9	.3	34	.0	2.4
3	.0	.0	.0	.3	1.3	.7	.0	31	.0	2.3
2	.0	.0	.0	1.3	4.6	1.3	.1	104	.1	7.3
1	.0	.0	.1	4.4	7.7	.7	.0	184	.0	12.9
0	.0	.0	.3	9.2	13.1	.6	.0	318	.3	22.9
-1	.0	.0	.2	8.0	10.0	.3	.0	266	.1	18.4
-2	.0	.1	.8	5.8	6.5	.1	.0	186	.0	13.3
-3	.0	.1	.4	4.0	3.4	.0	.0	114	.0	7.9
-4	.0	.2	.3	2.9	2.2	.0	.0	79	.0	5.6
-5	.1	.0	.2	1.3	.7	.0	.0	31	.0	2.3
-6	.0	.0	.3	.7	.0	.0	.0	14	.0	1.0
-7/-8	.0	.0	.0	.5	.2	.0	.0	10	.0	.7
-9/-10	.0	.0	.0	.2	.0	.0	.0	3	.0	.2
-11/-13	.0	.0	.1	.0	.0	.0	.0	2	.0	.1
TOTAL								1406		
PCT	.1	.3	2.7	39.1	51.4	5.6	.9	100.0	.5	99.5

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

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

N

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

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.0	.0	.0	.0	.3
1-2	.1	1.1	.3	.0	.0	.0	1.5
3-4	.0	1.0	.1	*	.0	.0	1.2
5-6	.0	*	.5	.0	.0	.0	.5
7	.0	.2	.0	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.5	.9	*	.0	.0	3.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.3	.0	.0	.0	.0	.6
1-2	.1	5.8	.7	.0	.0	.0	6.6
3-4	.1	4.8	6.5	.1	.0	.0	11.5
5-6	.0	.9	6.3	.1	.0	.0	7.3
7	.0	.0	1.7	.2	.0	.0	1.9
8-9	.0	.0	.1	.2	.0	.0	.3
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	11.9	15.5	.6	.0	.0	28.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.5	.0	.0	.0	.0	1.5
1-2	.0	9.0	2.9	.0	.0	.0	11.9
3-4	.2	4.8	8.8	.4	.0	.0	14.3
5-6	.0	.9	5.6	.8	.0	.0	7.3
7	.0	.1	3.9	.2	.0	.0	4.2
8-9	.0	.0	1.4	.2	.0	.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	.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	.2	16.5	22.7	2.3	.0	.0	41.6

PERIOD: (OVER-ALL) 1963-1972

ANNUAL

AREA 0002 CHRISTMAS ISLAND
10.1S 105.2E

TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.5	.0	.0	.0	.0	.6
1-2	.0	3.8	.4	.0	.0	.0	4.2
3-4	.0	1.8	1.7	.0	.0	.0	3.5
5-6	.0	.0	.6	.0	.0	.0	.6
7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	6.1	3.1	.1	.0	.0	9.4

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.2	.0	.0	.0	.0	.5
1-2	.4	2.8	.3	.0	.0	.0	3.5
3-4	.0	1.3	.6	.0	.0	.0	1.9
5-6	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	4.3	1.2	.0	.0	.0	6.3

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.1	.9	.7	.0	.0	.0	1.6
3-4	.0	1.0	.4	.0	.0	.0	1.4
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.9	1.4	.0	.0	.0	3.3

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	.2	.0	.0	.0	.0	.5	
1-2	.0	.4	.3	.0	.0	.0	.7	
3-4	.0	.6	.5	.0	.0	.0	1.1	
5-6	.0	.0	.4	.2	.0	.0	.6	
7	.0	.0	.3	.0	.0	.0	.3	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.2	.0	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	1.1	1.7	.2	.0	.0	3.3	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	3.5	3.0	.0	.0	.0	.0	6.5	
1-2	1.3	23.9	5.7	.0	.0	.0	30.8	
3-4	.2	15.5	18.6	.6	.0	.0	34.9	
5-6	.0	2.0	14.4	1.1	.0	.0	17.5	
7	.0	.3	6.5	.4	.0	.0	7.1	
8-9	.0	.0	1.5	.3	.0	.0	1.9	
10-11	.0	.0	.1	.8	.0	.0	.9	
12	.0	.0	.2	.0	.0	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.0	
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	5.0	44.9	46.9	3.2	.0	.0	100.0	698

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.8	9.0	12.6	5.6	1.6	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	349	3
6-7	.0	2.2	12.5	12.9	5.8	2.8	.9	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	421	5
8-9	.0	.6	3.4	5.6	4.5	1.8	1.0	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	203	6
10-11	.0	.1	.8	1.5	1.7	.6	.2	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	65	7
12-13	.0	.0	.4	.2	1.0	.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	7
>13	.0	.0	.0	.3	.3	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	7
INDET	1.1	.9	1.0	1.4	1.3	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	71	4
TOTAL PCT	1.9	12.8	30.9	27.6	16.1	5.9	2.9	1.7	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1146 100.0	5

PERIOD: (PRIMARY) 1860-1972
(OVER-ALL) 1854-1972

TABLE 20

AREA 0002 CHRISTMAS ISLAND
10.1S 105.2E

PERCENT FREQUENCY OR 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	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
89/90	.0	.0	.6	.0	.2	.1	.0	.0	.0	.0	.0	.0	5	.1
87/88	.2	3.1	4.0	1.0	.2	.5	.0	.0	.0	.0	.2	.7	44	.6
85/86	4.5	13.0	20.0	15.7	6.2	3.8	1.3	.1	.6	.8	1.3	5.5	356	5.1
83/84	45.6	40.5	40.9	48.5	37.9	11.9	7.7	2.6	4.3	4.1	9.3	14.0	1283	18.4
81/82	43.6	36.3	27.0	31.3	46.8	48.4	31.1	16.9	13.0	19.7	43.1	61.9	2278	32.6
79/80	5.4	7.3	4.2	3.3	7.0	27.2	35.2	34.7	34.5	42.7	33.1	16.7	1687	24.2
77/78	.5	.0	1.7	.2	.8	7.1	19.1	37.3	36.6	25.2	11.4	.5	1035	14.8
75/76	.0	.0	1.3	.0	.6	.7	4.1	7.0	10.3	3.9	.8	.5	216	3.1
73/74	.0	.0	.2	.0	.0	.3	.4	.5	2.1	2.7	.2	.2	49	.7
71/72	.0	.0	.0	.0	.2	.0	.3	.4	.3	.6	.0	.0	15	.2
69/70	.0	.0	.0	.0	.0	.0	.8	.2	.3	.0	.9	.0	10	.1
67/68	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	1	*
65/66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
63/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	443	262	530	515	485	762	753	757	774	785	492	420	6978	100.0
MEAN	82.9	82.8	83.2	83.1	82.3	81.0	79.8	78.8	78.5	79.2	80.6	81.7	81.1	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1010	1009	1009	1007	1009	1009	1009	1008	1009	159
FEB	1009	1012	1009	1007	1008	1012	1008		1009	125
MAR	1010		1007	1009	1009	1012	1010	1011	1010	152
APR	1010	1009	1009	1008	1009	1010	1010	1009	1009	165
MAY	1010		1010	1009	1010		1010	1009	1010	172
JUN	1011	1008	1010	1010	1011	1011	1011	1010	1011	185
JUL	1012		1012	1011	1011	1013	1012		1012	175
AUG	1012	1012	1012	1010	1012	1012	1012	1010	1012	169
SEP	1013		1012	1012	1012	1015	1012	1013	1012	165
OCT	1013		1012	1011	1012	1014	1012	1014	1012	150
NOV	1011	1012	1010	1011	1010		1010	1009	1010	115
DEC	1010	1010	1009	1008	1009	1010	1010	1010	1010	119
ANN	1011	1010	1010	1009	1010	1012	1011	1010	1011	1891
OBS	380	20	680	59	361	33	315	43		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	1004	1004	1006	1008	1010	1011	1012	1012	1013
FEB	1002	1004	1005	1008	1009	1010	1012	1013	1014
MAR	1001	1003	1006	1008	1010	1011	1013	1013	1015
APR	1005	1006	1007	1008	1009	1010	1012	1013	1014
MAY	1006	1006	1007	1009	1010	1011	1013	1014	1015
JUN	1005	1007	1008	1009	1011	1012	1014	1015	1018
JUL	1008	1008	1009	1011	1012	1013	1015	1017	1020
AUG	1006	1006	1008	1011	1012	1013	1014	1017	1020
SEP	1008	1008	1009	1011	1012	1014	1015	1018	1019
OCT	1005	1008	1009	1011	1012	1013	1014	1017	1018
NOV	1004	1004	1007	1009	1011	1012	1014	1014	1015
DEC	1006	1006	1007	1009	1010	1010	1012	1013	1014

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	10.1	.0	4.3	.0	.0	.0	.0	10.1	.0	5.8	.0	.0	.0	.0		84.1
NE	.0	.0	.0	.0	.0	.0	.0	.0	11.8	2.9	.0	.0	.0	.0		85.3
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	27.3	.0	.0	.0	.0		72.7
SE	.0	.0	12.9	.0	.0	.0	.0	12.9	.0	.0	.0	.0	.0	.0		87.1
S	.0	.0	.0	.0	.0	.0	.0	.0	14.3	7.1	.0	.0	.0	.0		78.6
SW	7.1	3.6	3.6	.0	.0	.0	.0	14.3	1.8	9.6	.0	.0	.0	.0		75.9
W	7.7	5.8	3.8	.0	.0	.0	.0	17.3	5.8	8.7	1.9	.0	.0	.0		69.2
NW	16.1	2.0	.5	.0	.0	.0	.0	18.0	.0	5.9	2.0	.0	.0	.0		76.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
TOT PCT	8.7	2.7	2.7	.0	.0	.0	.0	13.6	3.3	7.1	1.1	.0	.0	.0		76.6
TOT OBS:	184															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	9.6	1.9	3.8	.0	.0	.0	.0	15.4	4.8	.0	1.9	.0	.0	.0		76.9
06&09	6.0	.0	2.0	.0	.0	.0	.0	8.0	2.0	.0	.0	.0	.0	.0		90.0
12&15	7.1	.0	.0	.0	.0	.0	.0	7.1	.0	11.9	2.4	.0	.0	.0		81.0
18&21	12.5	10.4	4.2	.0	.0	.0	.0	25.0	4.2	20.8	.0	.0	.0	.0		56.3
TOT PCT	8.9	3.1	2.6	.0	.0	.0	.0	14.1	3.1	7.8	1.0	.0	.0	.0		76.0
TOT OBS:	192															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.7	5.2	1.3	.2	.0	.0		8.4	7.1	7.6	14.3	8.8	12.0	6.1	21.4	8.4	7.4
NE	1.3	2.6	.3	*	.0	.0		4.2	3.7	4.1	14.3	5.4	2.1	5.8	.0	3.0	4.2
E	1.2	1.6	.2	.0	.0	.0		2.9	4.9	8.0	.0	2.1	1.7	1.8	.0	2.6	1.8
SE	1.4	3.5	.6	.0	.0	.0		5.5	5.9	6.4	.0	6.0	3.1	4.4	.0	6.5	5.8
S	2.1	3.4	.4	.1	.0	.0		6.1	5.7	5.5	.0	3.9	3.5	9.0	28.6	7.9	5.8
SW	2.3	7.5	2.1	.2	.0	.0		12.3	7.6	11.1	.0	12.1	13.4	14.3	14.3	11.1	12.9
W	1.9	13.7	6.7	1.7	.0	.0		23.9	9.9	18.9	57.1	23.7	26.4	23.7	14.3	26.8	23.7
NW	2.5	14.4	10.6	2.5	.1	.0		30.1	10.8	34.1	14.3	31.4	31.8	26.0	21.4	27.4	30.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.4							6.4	.0	4.3	.0	6.7	4.1	8.9	.0	6.8	7.9
TOT OBS	249	625	764	56	1	0	1195		8.2	187	7	284	146	169	7	205	190
TOT PCT	20.8	52.3	22.1	4.7	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	5.1	2.9	.3	.1	.0		8.4	7.1	7.9	9.9	6.7	7.6
NE	3.1	1.1	.1	.0	.0		4.3	5.7	4.5	4.2	5.5	3.6
E	2.4	.4	.1	.0	.0		2.9	4.9	7.7	2.0	1.7	2.2
SE	3.8	1.6	*	.0	.0		5.5	5.9	6.2	5.0	4.3	6.1
S	4.1	1.8	.1	.0	.0		6.1	5.7	5.3	4.4	9.8	6.6
SW	6.1	5.4	.9	.0	.0		12.3	7.6	10.7	12.5	14.3	12.0
W	8.5	11.7	3.5	.2	.0		23.9	9.9	20.2	24.6	23.3	25.3
NW	9.7	14.5	5.4	.5	.1		30.1	10.8	32.4	31.6	25.9	28.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	6.4						6.4	.0	4.1	5.8	8.3	7.3
TOT OBS	589	470	126	9	1	1195		8.2	194	430	176	395
TOT PCT	49.3	39.3	10.5	.8	.1		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	4.1	20.1	50.5	20.6	4.1	.5	.0	8.2	100.0	194
06&09	5.8	12.3	54.9	22.6	4.4	.0	.0	8.3	100.0	430
12&15	8.5	18.2	50.6	19.3	3.4	.0	.0	7.4	100.0	176
18&21	7.3	12.2	51.1	23.5	5.8	.0	.0	8.5	100.0	395
TOT	77	172	625	264	56	1	0	8.2		1195
PCT	6.4	14.4	52.3	22.1	4.7	.1	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.2	1.8	3.0	4.0		5.9
NE	.0	1.8	4.0	1.5		5.8
E	.0	.9	1.2	.0		5.1
SE	1.2	1.2	1.2	.3		4.3
S	.9	1.9	2.1	1.8		5.0
SW	.3	1.8	6.4	6.7		6.6
W	1.2	2.4	5.8	7.6		6.4
NW	.0	2.7	11.6	15.9		6.8
VAR	.0	.0	.0	.0		.0
CALM	.0	3.7	2.4	1.2		4.8
TOT OBS	4	15	31	32	82	6.1
TOT PCT	4.9	18.3	37.8	39.0	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	1.8	.0	.0	.0	.0	.0	8.2	
NE	.0	.0	.0	.0	.3	1.2	.0	.0	.0	.0	5.8	
E	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.9	
SE	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	3.7	
S	.0	.0	.0	.0	.9	.0	.0	.0	.9	.0	4.9	
SW	.0	.0	1.2	2.4	1.8	1.2	.0	.0	.0	.0	8.5	
W	.0	.0	.0	1.2	1.8	3.7	.0	.0	.0	.0	10.4	
NW	.0	.0	.0	2.4	6.7	2.4	1.2	.0	.0	.0	17.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	6.1	
TOT OBS	0	0	1	6	12	7	1	0	1	0	54	82
TOT PCT	.0	.0	1.2	7.3	14.6	8.5	1.2	.0	1.2	.0	65.9	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >500YD	* OR >0
* OR >6500	1.2	1.2	1.2	1.2	1.2		1.2	1.2
* OR >5000	1.2	1.2	1.2	1.2	1.2		1.2	1.2
* OR >3500	2.4	2.4	2.4	2.4	2.4	.4	2.4	2.4
* OR >2000	8.3	8.3	9.5	9.5	9.5	9.5	9.5	9.5
* OR >1000	21.4	22.6	23.8	23.8	23.8	23.8	23.8	23.8
* OR >600	27.4	29.8	31.0	31.0	31.0	31.0	31.0	31.0
* OR >300	27.4	31.0	32.1	32.1	32.1	32.1	32.1	32.1
* OR >150	27.4	31.0	32.1	32.1	32.1	32.1	32.1	32.1
* OR > 0	27.4	31.0	32.1	32.1	32.1	32.1	32.1	32.1
TOTAL	23	26	27	27	27	27	27	27

TOTAL NUMBER OF OBS: 84 PCT FREQ NH <5/8: 67.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
1.1	14.0	15.1	23.7	9.7	7.5	5.4	6.5	17.2	.0	93

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	1.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5	
	TOT %	.0	.0	.0	.0	.0	.0	.5	1.1	.0	.0	1.6	
2<5	PCP	.0	.0	.0	.0	.0	.0	.5	.5	.0	.0	1.1	
	NO PCP	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	1.1	
	TOT %	.0	.5	.0	.0	.0	.5	.5	.5	.0	.0	2.2	
5<10	PCP	1.6	.0	.0	.0	1.6	3.3	2.3	.0	.0		8.2	
	NO PCP	2.2	.5	.0	.0	.4	1.4	7.6	5.3	.0	.0	15.8	
	TOT %	3.1	.5	.0	.0	.4	3.4	8.9	7.7	.0	.0	24.0	
10+	PCP	.0	.0	.0	.5	.0	.5	.5	1.1	.0	.0	2.7	
	NO PCP	6.3	3.6	1.5	3.7	5.3	10.8	17.3	17.6	.0	3.3	69.4	
	TOT %	6.3	3.6	1.5	4.2	5.3	11.3	17.9	18.7	.0	3.3	72.1	
	TOT OBS												183
	TOT PCT	9.4	4.6	1.5	4.2	5.7	15.3	27.9	26.0	.0	3.3	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.1	.1	.3	.0	.0		.5	
	11-21	.0	.0	.0	.0	.0	.0	.0	.5	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.3	.0		.3	
	TOT %	.0	.0	.0	.0	.1	.1	.3	.8	.0	.0	1.1	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.3	.0	.0	.0	.3	.3	.3	.0		1.1	
	11-21	.1	.0	.0	.0	.0	.0	.9	1.1	.0		2.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.3	.0		.3	
	TOT %	.1	.3	.0	.0	.0	.3	1.2	1.6	.0	.0	3.4	
5<10	0-3	.4	.3	.0	.0	.0	.0	.9	.5	.0	.5	2.6	
	4-10	1.3	.3	.0	.1	.6	2.6	3.6	2.9	.0		11.3	
	11-21	.4	.0	.0	.0	.0	.9	2.2	2.0	.0		5.5	
	22+	.0	.0	.0	.0	.0	.0	.4	.1	.0		.5	
	TOT %	2.0	.5	.0	.1	.6	3.5	7.2	5.5	.0	.5	20.1	
10+	0-3	.7	.9	.4	.8	1.6	2.2	1.2	1.2	.0	5.0	14.0	
	4-10	5.3	1.8	.9	2.3	3.1	7.5	12.5	13.9	.0		47.2	
	11-21	.1	.0	.0	.0	.1	1.1	4.7	7.2	.0		13.2	
	22+	.2	.1	.0	.0	.0	.0	.1	.6	.0		.8	
	TOT %	6.3	2.8	1.3	3.1	4.8	10.8	18.5	22.6	.0	5.0	75.2	
	TOT OBS												879
	TOT PCT	8.5	3.6	1.3	3.2	5.5	14.6	27.2	30.5	.0	5.9	100.0	

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	.0	7.1	17.9	14.3	3.6	.0	.0	.0	42.9	57.1	28
06E09	.0	.0	5.3	5.3	21.1	.0	.0	.0	.0	.0	31.6	68.4	19
12E15	.0	.0	.0	5.3	.0	5.3	.0	.0	.0	.0	10.5	89.5	19
18E21	.0	.0	.0	9.5	14.3	9.5	.0	.0	4.8	.0	38.1	61.9	21
TOT	0	0	1	6	12	7	1	0	1	0	28	59	87
PCT	.0	.0	1.1	6.9	13.8	8.0	1.1	.0	1.1	.0	32.2	67.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.0	.0	2.4	3.6	20.5	73.5	83
06E09	.0	.0	.9	4.4	15.8	78.9	114
12E15	.0		1.4	4.2	16.9	77.5	71
18E21	.0	.0	.8	1.7	26.9	70.6	119
TOT	0	0	5	13	79	290	387
PCT	.0	.0	1.3	3.4	20.4	74.9	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NM <5/8 AND 5+	TOTAL OBS
00E03	.0	.0	11.5	30.8	57.7	26
06E09	.0	5.3	10.5	21.1	68.4	19
12E15	.0	.0	10.5	5.3	84.2	19
18E21	.0	.0	10.0	30.0	60.0	20
TOT	0	1	9	19	56	84
PCT	.0	1.2	10.7	22.6	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 OBS	PCT FREQ
95/99	.0	.0	.0	.0	.8	.0	.0	.0	1	.8
85/89	.0	.0	.0	.8	.8	1.5	1.5	.0	6	4.5
80/84	.0	.0	.0	.0	3.0	25.8	34.1	5.3	90	68.2
75/79	.0	.0	.0	.0	.0	1.5	15.2	9.8	35	26.5
TOTAL	0	0	0	1	6	38	67	20	132	100.0
PCT	.0	.0	.0	.8	4.5	28.8	50.8	15.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.8	.0	.0	.0	.0	.8	.8	2.3	.0	.0
	8.5	5.1	1.5	3.2	3.8	10.4	15.2	18.2	.0	2.3
	2.7	.4	.0	.8	.8	2.8	9.3	9.3	.0	.8
	12.7	5.5	1.5	4.0	4.4	14.0	25.2	29.7	.0	3.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	90	87	85	81	77	77	72	80.6	191
06E09	96	90	87	82	78	76	73	82.5	423
12E15	87	86	84	82	79	76	75	81.7	170
18E21	89	86	84	81	77	75	73	80.5	386
TOT	96	89	86	81	77	75	72	81.4	1170

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-89	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	.0	17.1	65.9	17.1	85	41
06E09	.0	2.9	14.3	45.7	34.3	2.9	76	35
12E15	.0	.0	3.4	31.0	55.2	10.3	82	29
18E21	.0	.0	.0	24.2	45.5	30.3	85	33
TOT	0	1	6	40	70	21	82	138

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PERIOD: (PRIMARY) 1879-1973
(OVER-ALL) 1855-1973

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TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.6	.0	1	.0	.6
4	.0	.0	.0	1.3	.6	3	.0	1.9
3	.0	.0	.6	.6	.0	2	.0	1.3
2	.0	.0	4.5	1.9	.0	10	.0	6.4
1	.0	.6	5.7	.6	.0	11	.0	7.0
0	.0	2.5	16.6	.0	.0	30	.0	19.1
-1	.0	2.5	9.6	1.3	.0	21	.0	13.4
-2	.6	7.0	11.5	.0	.0	30	.0	19.1
-3	.0	7.6	2.5	.0	.0	16	.0	10.2
-4	.0	5.7	3.2	.0	.0	14	.0	8.9
-5	.0	4.5	1.3	.0	.0	9	.0	5.7
-6	.6	2.5	.0	.0	.0	5	.0	3.2
-7/-8	.0	.6	.0	.0	.0	2	.0	1.3
-9/-10	1.9	.0	.0	.0	.0	3	.0	1.9
TOTAL	6	53	87	10	1	157	0	157
PCT	3.8	33.8	55.4	6.4	.6	100.0		100.0

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	4.6	.0	.0	.0	.0	4.6
3-4	.0	3.7	.0	.0	.0	.0	3.7
5-6	.0	.0	.0	1.4	.0	.0	1.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.3	.0	1.4	.0	.0	9.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.9	1.9	.0	.0	.0	.0	3.7
1-2	.0	6.5	.0	.0	.0	.0	6.5
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.5	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	8.3	.0	.5	.0	.0	10.8

E

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

SE

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

PERIOD: (OVER-ALL) 1963-1973

JANUARY

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TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.8	.0	.0	.0	.0	2.8
1-2	.0	4.6	.0	.0	.0	.0	4.6
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.4	.0	.0	.0	.0	7.4

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9
1-2	.0	4.6	3.7	.0	.0	.0	8.3
3-4	.0	4.2	.0	.0	.0	.0	4.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	9.7	3.7	.0	.0	.0	13.4

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.2	1.9	.0	.0	.0	5.1
3-4	.0	1.4	5.1	.0	.0	.0	6.5
5-6	.0	.0	1.9	.0	.0	.0	1.9
7	.0	.0	1.9	.0	.0	.0	1.9
8-9	.0	.0	.0	1.9	.0	.0	1.9
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.6	10.4	1.9	.0	.0	17.1

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.9	.0	.0	.0	.0	1.9	
1-2	.0	6.0	5.6	.0	.0	.0	11.6	
3-4	1.9	1.9	9.7	.0	.0	.0	13.4	
5-6	.0	.0	3.7	.0	.0	.0	3.7	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.9	9.7	19.0	.0	.0	.0	30.6	92.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	10.9	7.3	.0	.0	.0	.0	18.2	
1-2	.0	32.7	10.9	.0	.0	.0	43.6	
3-4	1.8	10.9	14.5	.0	.0	.0	27.3	
5-6	.0	.0	5.5	1.8	.0	.0	7.3	
7	.0	.0	1.8	.0	.0	.0	1.8	
8-9	.0	.0	.0	1.8	.0	.0	1.8	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	12.7	50.9	32.7	3.6	.0	.0	100.0	55

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	7.6	27.8	26.6	2.5	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	52	2
6-7	.0	2.5	6.3	1.3	2.5	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	4
8-9	.0	.0	2.5	.0	.0	.0	2.5	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	7
10-11	.0	1.3	1.3	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	4
12-13	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	3.8	.0	1.3	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	3
TOTAL	9	25	31	6	3	1	3	1	0	0	0	0	0	0	0	0	0	0	0	79	3
PCT	11.4	31.6	39.2	7.6	3.8	1.3	3.8	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1878-1973
(OVER-ALL) 1855-1973

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5.6S 104.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	5.7	10.0	.0	.0	.0	.0	.0	15.7	5.7	10.0	.0	.0	.0	.0	.0	74.3
NE	.0	.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	100.0
SE	20.0	.0	.0	.0	.0	.0	.0	20.0	20.0	20.0	.0	.0	.0	.0	.0	40.0
S	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SW	13.6	.0	.0	.0	.0	.0	.0	13.6	.0	1.7	.0	.0	.0	.0	.0	84.7
W	9.8	7.7	.0	.0	.0	.0	.0	17.5	2.8	4.9	.0	.0	.0	.0	.0	77.6
NW	9.7	3.2	.0	.0	.0	.0	.0	13.0	4.3	9.2	.0	.0	.0	.0	.0	73.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.1	14.3	.0	.0	.0	.0	.0	21.4	7.1	28.6	.0	.0	.0	.0	.0	42.9
TOT PCT	8.8	5.4	.0	.0	.0	.0	.0	14.3	4.1	5.8	.0	.0	.0	.0	.0	74.1
TOT OBS:	147															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	13.8	6.9	.0	.0	.0	.0	.0	20.7	3.4	10.3	.0	.0	.0	.0	.0	65.5
06&09	4.4	6.7	.0	.0	.0	.0	.0	11.1	.0	.0	.0	.0	.0	.0	.0	88.9
12&15	.0	2.6	.0	.0	.0	.0	.0	2.6	5.3	7.9	.0	.0	.0	.0	.0	84.2
18&21	16.7	4.8	.0	.0	.0	.0	.0	21.4	7.1	16.7	.0	.0	.0	.0	.0	59.5
TOT PCT	8.4	5.2	.0	.0	.0	.0	.0	13.6	3.9	8.4	.0	.0	.0	.0	.0	75.3
TOT OBS:	154															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.5	5.9	1.9	.5	*	.0		9.8	8.6	13.4	12.5	9.3	7.3	8.8	.0	10.1	9.8
NE	.9	3.8	.4	.0	.0	.0		5.0	6.1	4.1	6.3	7.5	6.1	4.1	.0	4.4	3.1
E	1.6	2.4	.4	.0	.0	.0		4.5	5.3	5.3	18.8	5.3	2.3	6.2	.0	1.7	5.3
SE	1.4	2.8	.5	.0	.0	.0		4.7	5.9	5.6	.0	3.8	6.1	4.5	.0	4.6	4.5
S	1.2	2.3	.4	.0	.0	.0		3.8	5.4	2.9	.0	2.7	6.5	2.9	.0	4.1	5.0
SW	1.2	6.2	2.0	.1	.0	.0		9.4	7.6	4.3	12.5	8.1	11.1	15.5	.0	9.9	9.2
W	2.6	12.6	5.7	1.7	.2	.0		22.8	10.0	20.4	37.5	22.0	27.5	25.0	.0	20.4	23.5
NW	2.4	15.9	10.7	2.6	.2	.0		31.8	10.9	38.7	12.5	33.7	30.2	24.5	66.7	31.1	30.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.2							8.2	.0	4.3	.0	7.6	3.1	8.5	33.3	13.7	8.9
TOT OBS	238	586	248	55	5	0	1132		8.3	170	4	275	131	165	3	205	179
TOT PCT	21.0	51.8	21.9	4.9	.4	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.8	4.5	1.0	*	.0		9.8	8.6	13.4	8.6	8.6	10.0
NE	3.9	1.5	*	.0	.0		5.0	6.1	4.2	7.0	4.0	3.8
E	3.3	1.1	*	.0	.0		4.5	5.3	5.6	4.3	6.1	3.4
SE	3.2	1.4	.1	.0	.0		4.7	5.9	5.5	4.6	4.5	4.6
S	2.9	.8	.1	.0	.0		3.8	5.4	2.9	3.9	2.8	4.6
SW	5.2	3.9	.3	*	.0		9.4	7.6	4.5	9.1	15.2	9.6
W	7.9	11.4	3.1	.3	.1		22.8	10.0	20.8	23.8	24.6	21.8
NW	9.5	15.8	5.8	.7	.0		31.8	10.9	38.1	32.6	25.3	30.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	8.2						8.2	.0	3.2	6.2	8.9	11.5
TOT OBS	343	458	118	12	1	1132		8.3	174	406	168	384
TOT PCT	48.0	40.5	10.4	1.1	.1		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00603	5.2	12.6	50.6	24.7	6.3	.6	.0	9.1	100.0	174
06609	6.2	14.3	51.0	23.2	5.2	.2	.0	8.5	100.0	406
12615	8.9	11.3	53.6	22.6	3.6	.0	.0	8.1	100.0	168
18621	11.5	12.0	52.3	19.0	4.4	.8	.0	7.9	100.0	384
TOT	93	145	586	248	55	5	0	8.3		1132
PCT	8.2	12.8	51.8	21.9	4.9	.4	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	2.5	5.1	6.2		6.5
NE	.0	2.5	1.1	.0		3.9
E	.0	2.0	1.1	1.1		5.6
SE	.0	1.1	.0	2.2		6.6
S	1.1	.0	2.0	.0		4.8
SW	.0	1.7	4.8	2.0		5.9
W	.0	1.7	10.7	8.4		6.6
NW	.0	3.1	13.2	13.8		6.8
VAR	.0	.0	.0	.0		.0
CALM	3.4	3.4	.0	5.6		5.0
TOT OBS	4	16	34	35	99	6.2
TOT PCT	4.5	16.0	39.2	39.3	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	2.0	2.2	1.1	2.0	1.1	.0	.0	5.6	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	
E	.0	.0	.0	.0	1.1	.0	1.1	.0	.0	.0	2.0	
SE	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	2.2	
S	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	2.2	
SW	.0	.0	.0	.0	1.7	.3	.0	.0	.0	.0	6.5	
W	.0	.0	.0	3.1	5.1	3.1	.0	.0	.0	.0	9.6	
NW	.0	.0	.0	2.8	4.5	1.4	2.5	.0	.0	.0	18.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	1.1	2.2	1.1	.0	.0	.0	.0	7.9	
TOT OBS	0	0	0	3	15	7	6	1	0	0	52	89
TOT PCT	.0	.0	.0	9.0	16.9	7.9	6.7	1.1	.0	.0	58.4	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) • OR >10	• OR >5	• OR >2	• OR >1	• OR >1/2	• OR >1/4	• OR >50YD	• OR >0
• OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
• OR >5000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
• OR >3500	5.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
• OR >2000	11.0	16.5	16.5	16.5	16.5	16.5	16.5	16.5
• OR >1000	23.1	30.8	33.0	33.0	33.0	33.0	33.0	33.0
• OR >600	30.8	39.6	41.8	41.8	41.8	41.8	42.9	42.9
• OR >300	30.8	39.6	41.8	41.8	41.8	41.8	42.9	42.9
• OR >150	30.8	39.6	41.8	41.8	41.8	41.8	42.9	42.9
• OR > 0	30.8	39.6	41.8	41.8	41.8	41.8	42.9	42.9
TOTAL	28	36	38	38	38	38	39	39

TOTAL NUMBER OF OBS: 91

PCT FREQ NH <5/8: 57.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
1.0	19.3	16.3	19.4	6.1	8.2	10.2	8.2	15.3	.0	98

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.7	.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	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.7	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.7	
2<5	PCP	.0	.0	.0	.0	.0	.3	.3	.7	.0	.0	1.4	
	NO PCP	.7	.0	.0	.0	.0	.7	.7	.0	.0	.0	2.0	
	TOT %	.7	.0	.0	.0	.0	1.0	1.0	.7	.0	.0	3.4	
5<10	PCP	.7	.0	.0	.0	.0	.0	2.2	3.2	.0	1.4	7.5	
	NO PCP	3.4	2.7	.0	.7	.7	1.0	3.9	7.3	.0	2.0	21.8	
	TOT %	4.1	2.7	.0	.7	.7	1.0	6.1	10.5	.0	3.4	29.3	
10+	PCP	1.2	.0	.0	.0	.0	1.0	1.0	.2	.0	.7	4.1	
	NO PCP	6.0	1.0	3.1	2.0	1.9	7.0	15.5	20.1	.0	5.4	61.9	
	TOT %	7.1	1.0	3.1	2.0	1.9	8.0	16.5	20.2	.0	6.1	66.0	
	TOT OBS												147
	TOT PCT	11.9	3.7	3.1	3.4	2.6	10.0	24.3	31.9	.0	9.5	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.3	.2	.5	.0	.0		.9	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.3	.2	.5	.0	.0	.0	.9	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-2	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.3	.0	.0	.3	.0	.2	.2	.3	.0		1.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.0	.0	.3	.0	.2	.2	.3	.0	.0	1.2	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.5	.0	.0	.0	.0	.3	.3	.3	.0		1.5	
	11-21	.0	.0	.0	.0	.0	.2	.2	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.3	.3	.0		.6	
	TOT %	.5	.0	.0	.0	.0	.6	.8	.6	.0	.0	2.4	
5<10	0-3	.0	.3	.0	.0	.0	.0	.9	.9	.0	1.5	3.6	
	4-10	2.1	.9	.0	.3	.3	.6	2.0	3.4	.0		9.7	
	11-21	.3	.0	.0	.0	.0	.0	1.0	2.9	.0		4.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	2.4	1.2	.0	.3	.3	.6	3.9	7.3	.0	1.5	17.5	
10+	0-3	1.2	.5	.8	1.2	.8	1.1	1.6	2.6	.0	9.1	18.7	
	4-10	4.5	2.0	2.3	1.8	1.7	6.0	10.2	16.2	.0		44.7	
	11-21	.8	.3	.0	.0	.0	1.7	4.5	6.9	.0		14.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.3	.0		.3	
	TOT %	6.5	2.7	3.0	3.0	2.5	8.8	16.2	26.1	.0	9.1	77.9	
	TOT OBS												331
	TOT PCT	9.7	3.9	3.0	3.6	3.1	10.3	21.9	34.2	.0	10.6	100.0	

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	8.3	12.5	4.2	16.7	.0	.0	.0	41.7	58.3	24
06&09	.0	.0	.0	8.3	20.8	.0	.0	.0	.0	.0	29.2	70.8	24
12&15	.0	.0	.0	11.5	7.7	15.4	7.7	.0	.0	.0	42.3	57.7	26
18&21	.0	.0	.0	9.1	22.7	9.1	4.5	4.5	.0	.0	50.0	50.0	22
TOT	0	0	0	9	15	7	7	1	0	0	39	57	96
PCT	.0	.0	.0	9.4	15.6	7.3	7.3	1.0	.0	.0	40.6	59.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	1.6	.0	3.2	1.6	17.7	75.8	62
06&09	.0	.0	.0	1.0	18.8	80.2	101
12&15	1.6	.0	1.6	4.8	15.9	76.2	63
18&21	.9	.0	.9	2.7	18.8	76.8	112
TOT	3	0	4	8	61	262	338
PCT	.9	.0	1.2	2.4	18.0	77.5	100.0

TABLE 12

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

HOUR (GMT)	<150 <500YD	<600 <1	<1000 <2	1000+ AND5+	NH <5/8 AN' 5+	TOTAL OBS
00&03	.0	.0	14.3	33.3	52.4	21
06&09	.0	.0	8.3	20.8	70.8	24
12&15	.0	4.0	16.0	28.0	56.0	25
18&21	.0	.0	9.5	42.9	47.6	21
TOT	0	1	11	28	52	91
PCT	.0	1.1	12.1	30.8	57.1	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	.?	.9	.0	.0	1	.9
85/89	.0	.0	.0	.0	1.8	1.8	3.6	.9	9	8.1
80/84	.0	.0	.0	.0	.0	29.7	35.1	5.4	78	70.3
75/79	.0	.0	.0	.0	.0	.9	10.8	9.0	23	20.7
TOTAL	0	0	0	0	?	37	55	17	111	100.0
PCT	.0	.0	.0	.0	1.8	33.3	49.5	15.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	.0	.2	.7	.0	.0	.0
	.9	.5	1.4	.0	.0	1.8	2.7	.0	.0	.9
	6.3	3.6	1.8	3.6	2.5	7.2	16.2	20.9	.0	8.1
	4.7	.9	.0	.9	.9	2.0	4.3	7.0	.0	.0
	11.9	5.0	3.2	4.5	3.4	11.3	23.9	27.9	.0	9.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	87	85	84	81	77	75	74	80.7	170
06&09	91	90	87	83	78	75	74	82.7	392
12&15	88	87	86	82	78	75	73	81.8	169
18&21	87	85	84	81	77	75	73	80.6	378
TOT	91	89	86	82	77	75	73	81.5	1109

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	.0	18.2	63.6	18.2	85	22
06&09	.0	.0	5.9	50.0	35.3	8.8	79	34
12&15	.0	.0	.0	35.7	57.1	7.1	82	28
18&21	.0	.0	.0	20.7	51.7	27.6	85	29
TOT	0	0	2	37	57	17	83	113

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TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
6	.0	.0	.0	.0	.8	1	.0	.8
4	.0	.0	.8	.8	.8	3	.0	2.3
3	.0	.0	1.6	.8	.8	4	.0	3.1
2	.0	.0	2.3	1.6	.0	5	.0	3.9
1	.0	.0	5.5	2.3	.0	10	.0	7.8
0	.0	.8	18.8	.8	.0	26	.0	20.3
-1	.0	6.3	18.0	.0	.0	31	.0	24.2
-2	.0	3.9	8.6	.0	.0	16	.0	12.5
-3	.0	3.9	3.9	.0	.0	10	.0	7.8
-4	2.3	4.7	2.3	.0	.0	12	.0	9.4
-5	.0	3.9	.0	.0	.0	6	.0	4.7
-6	.0	1.6	.0	.0	.0	2	.0	1.6
-7/-8	.0	.8	.8	.0	.0	2	.0	1.6
TOTAL	4	33	80	6	3	128	0	128
PCT	3.1	25.8	62.5	4.7	2.3	100.0		100.0

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.0	.0	.0	.0	.0	2.0
1-2	.0	9.0	.0	.0	.0	.0	9.0
3-4	.0	2.0	1.5	.0	.0	.0	3.5
5-6	.0	.0	1.5	.0	.0	.0	1.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	13.0	3.0	.0	.0	.0	16.0

NE

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

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	4.0	.0	.0	.0	.0	4.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.0	.0	.0	.0	.0	4.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.0	.0	.0	.0	.0	.0	2.0
1-2	.0	2.0	.0	.0	.0	.0	2.0
3-4	.0	.0	.0	.0	.0	.0	0
5-6	.0	.0	.0	.0	.0	.0	0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.0	2.0	.0	.0	.0	.0	4.0

PERIOD: (OVER-ALL) 1963-1979

FEBRUARY

TABLE 18 (CONT)

AREA 0J03 SUNDA STRAIT
5.6S 104.7E

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

S

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

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.5	2.0	.0	.0	.0	4.5
3-4	.0	2.5	4.5	.0	.0	.0	7.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.0	6.5	.0	.0	.0	11.5

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.5	2.0	.0	.0	.0	5.5
3-4	.0	7.5	7.0	.0	.0	.0	14.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	11.0	9.0	.0	.0	.0	20.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	2.0	.0	.0	.0	.0	2.0	
1-2	.0	9.0	.0	.0	.0	.0	9.0	
3-4	.0	4.0	3.0	.0	.0	.0	7.0	
5-6	.0	4.0	2.5	.0	.0	.0	6.5	
7	.0	.0	2.0	.0	.0	.0	2.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	19.0	7.5	.0	.0	.0	26.5	94.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	18.0	6.0	.0	.0	.0	.0	24.0	
1-2	.0	30.0	4.0	.0	.0	.0	34.0	
3-4	.0	18.0	10.0	.0	.0	.0	32.0	
5-6	.0	4.0	4.0	.0	.0	.0	8.0	
7	.0	.0	2.0	.0	.0	.0	2.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	18.0	56.0	26.0	.0	.0	.0	100.0	50

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		MEAN HGT
<6	6.8	16.4	16.4	6.8	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	3
6-7	.0	.0	5.5	6.8	2.7	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	5
8-9	.0	.0	1.4	4.1	1.4	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	6
10-11	.0	.0	.0	.0	1.4	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	9
12-13	.0	.0	2.7	.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	5
>13	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDET	13.7	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	0
TOTAL	15	14	19	14	6	4	1	0	0	0	0	0	0	0	0	0	0	0	0	73	3
PCT	20.5	19.2	26.0	19.2	8.2	5.5	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIODS (PRIMARY) 1870-1969
(OVER-ALL) 1869-1969

AREA 0003 SUNDA STRAIT
5.6S 104.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	8..	3.0	2.0	.0	.0	.0	.0	13.1	.0	9.1	4.0	.0	.0	.0		73.7
NE	5.6	5.6	.0	.0	.0	.0	.0	11.3	5.6	19.7	.0	.0	.0	.0		68.4
E	.0	.0	10.5	.0	.0	.0	.0	10.5	.0	.0	.0	.0	.0	.0		89.5
SE	...	.0	.0	.0	.0	.0	.0	4.4	.0	8.9	.0	.0	.0	.0		91.1
S	1..	5.6	.0	.0	.0	.0	.0	14.1	.0	.0	2.8	.0	.0	.0		85.1
SW	5.6	6..	.0	.0	.0	.0	.0	11.6	.0	.0	.9	.0	3.7	.0		83.7
W	5..	5..	.0	.0	.0	.0	.0	13.7	8.7	4.4	.0	.0	.0	.0		73.2
NW	4.7	3..	1.2	.0	.0	.0	.0	5.9	7.1	.6	.0	.0	.0	.0		83.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	12.5	.0	.0	.0	.0	..	12.5	.0	12.5	.0	.0	.0	.0		75.0
TOT PCT	5.4	5.0	.8	.0	.0	.0	.0	11.2	3.3	4.5	.8	.0	.8	.0		79.8
TOT OBS:	242															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	5.9	8.8	2.9	.0	.0	.0	.0	17.6	5.9	.0	.0	.0	.0	.0		76.5
06&09	3.3	1.7	.0	.0	.0	.0	.0	5.0	.0	.0	1.7	.0	.0	.0		93.3
12&15	3.3	4.9	.0	.0	.0	.0	.0	8.2	1.6	4.9	.0	.0	1.6	.0		83.6
18&21	5.2	2.7	.0	.0	.0	.0	.0	11.0	4.1	11.0	2.7	.0	1.4	.0		71.2
TOT PCT	5.3	4.6	.8	.0	.0	.0	.0	10.7	3.1	4.2	1.1	.0	.8	.0		80.5
TOT OBS:	262															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.6	5.2	1.7	*	*	.0		8.5	7.5	9.5	5.6	8.9	8.0	7.9	16.7	8.3	8.1
NE	.8	3.9	1.0	.0	.0	.0		5.7	7.1	5.7	11.1	8.8	4.3	5.6	16.7	4.1	3.2
E	1.4	4.3	1.3	.1	.0	.0		7.1	7.3	8.9	.0	9.2	2.9	6.4	.0	6.4	7.1
SE	2.1	6.1	1.1	.1	.0	.0		9.5	6.6	7.8	22.2	9.0	7.2	12.8	8.3	7.5	12.0
S	1.1	3.7	.5	*	.0	.0		5.3	6.5	6.3	.0	3.9	8.0	4.5	8.3	6.5	5.1
SW	1.9	7.2	2.7	.5	.0	.0		12.3	8.7	15.4	19.4	8.9	11.2	12.6	8.3	15.0	12.3
W	1.7	10.9	5.8	1.3	.0	.0		19.7	10.0	16.3	30.6	16.9	29.7	22.7	41.7	19.3	17.2
NW	1.8	12.7	7.4	1.3	.1	.0		23.4	10.1	25.8	11.1	23.6	26.4	20.9	.0	19.4	27.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.4							8.4	.0	4.7	.0	11.3	2.2	6.6	.0	13.4	7.8
TOT OBS	281	732	290	48	2	0	1353		7.9	193	9	355	138	211	6	246	204
TOT PCT	20.8	54.1	21.4	3.5	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.5	3.6	.4	.0	*		8.5	7.5	9.3	8.6	8.2	8.2
NE	3.1	2.5	.1	.0	.0		5.7	7.1	5.9	7.5	5.9	3.7
E	4.0	2.7	.4	.0	.0		7.1	7.3	8.2	7.4	6.2	6.7
SE	6.0	3.1	.4	.0	.0		9.5	6.6	8.4	8.5	12.7	9.6
S	3.3	1.9	.1	.0	.0		5.3	6.5	6.1	4.8	4.6	5.9
SW	5.3	5.8	1.0	.3	.0		12.3	8.7	15.6	9.6	12.4	13.8
W	7.1	9.6	2.9	.1	..		19.7	10.0	17.0	20.6	23.3	18.3
NW	7.9	12.0	3.1	.2	.1		23.4	10.1	25.1	24.4	20.3	22.9
VAR	.0	.0	.0	.0	.0		.0	.6	.0	.0	.0	.0
CALM	8.4						8.4	.0	4.5	8.7	6.5	10.9
TOT OBS	671	597	115	8	2	1353		7.9	202	484	217	450
TOT PCT	49.6	41.7	8.5	.6	.1		100.0		100.0	100.0	100.0	100.0

MARCH

PERIODS (PRIMARY) 1879-1969
(OVER-ALL) 1850-1969

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	4.5	13.4	55.9	21.8	4.5	.0	.0	8.2	100.0	202
06&09	8.7	14.0	54.8	18.4	3.9	.2	.0	7.7	100.0	484
12&15	6.5	12.0	57.1	21.7	2.8	.0	.0	8.0	100.0	217
18&21	10.9	10.2	51.1	24.6	3.1	.2	.0	8.1	100.0	450
TOT	114	167	732	290	48	2	0	7.9		1353
PCT	8.4	12.3	54.1	21.4	3.5	.1	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.6	2.4	6.9	.8		5.3
NE	3.4	1.8	1.8	1.6		4.0
E	.0	1.4	2.0	.6		5.3
SE	4.0	1.6	3.8	1.8		4.2
S	.8	1.2	2.6	.0		4.4
SW	4.8	6.0	6.7	1.8		4.1
W	.0	1.6	11.1	5.4		6.6
NW	.8	4.8	8.7	5.6		5.9
VAR	.0	.0	.0	.0		.0
CALM	1.6	.8	.8	.8		4.6
TOT OBS	70	27	56	23	126	5.1
TOT PCT	15.9	21.4	44.4	18.3	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.8	1.6	.6	.0	.0	.0	.0	7.7	
NE	.0	.0	.0	.8	1.6	.0	.8	.0	.0	.0	5.4	
E	.0	.0	.0	.0	.0	.6	.8	.0	.0	.0	2.6	
SE	.0	.0	.0	.0	1.6	.2	.0	.0	.0	.0	9.3	
S	.0	.0	.0	.0	.0	.8	.6	.0	.0	.0	3.2	
SW	.0	.0	.0	.8	2.2	3.2	.4	.0	.0	.0	12.7	
W	.8	.0	.0	1.6	4.8	2.2	1.4	.0	.0	.0	7.3	
NW	.0	.0	.0	3.2	3.4	1.2	.0	.0	.0	.0	12.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	3.2	
TOT OBS	1	0	0	9	19	12	5	0	0	0	80	126
TOT PCT	.8	.0	.0	7.1	15.1	9.5	4.0	.0	.0	.0	63.5	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	2.3	3.8	3.8	3.8	3.8	3.8	3.8	3.8
* OR >2000	8.4	12.2	13.0	13.7	13.7	13.7	13.7	13.7
* OR >1000	14.5	24.4	27.5	28.2	28.2	28.2	28.2	28.2
* OR >600	17.6	29.8	34.4	35.1	35.1	35.1	35.1	35.1
* OR >300	17.6	29.8	34.4	35.1	35.1	35.1	35.1	35.1
* OR >150	17.6	29.8	34.4	35.1	35.1	35.1	35.1	35.1
* OR > 0	17.6	29.8	35.1	35.9	35.9	35.9	35.9	35.9
TOTAL	23	39	46	47	47	47	47	47

TOTAL NUMBER OF OBS: 131 PCT FREQ NH <5/8: 64.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
2.1	12.1	23.6	16.4	10.7	10.0	9.3	4.3	10.7	.7	140

MARCH

PERIOD: (PRIMARY) 1879-1969
(OVER-ALL) 1955-1969

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.2	.2	.4	.0	.0	.0	.8	
1<2	NO PCP	.0	.0	.0	.0	.0	.8	.4	.2	.0	.0	1.7	
	TOT %	.0	.0	.0	.0	.2	1.0	1.0	.2	.0	.0	2.5	
	PCP	.3	.4	.0	.0	.4	.4	.4	.1	.0	.0	2.1	
2<5	NO PCP	.0	.0	.0	.0	.0	.0	.4	.8	.0	.0	1.2	
	TOT %	.3	.4	.0	.0	.4	.4	.8	.9	.0	.0	3.3	
	PCP	.8	.4	.4	.4	.4	2.0	1.3	1.2	.0	.4	7.4	
5<10	NO PCP	9.1	2.1	1.4	1.0	2.8	6.7	5.0	4.8	.0	.0	26.9	
	TOT %	9.9	2.5	1.9	1.4	3.2	8.7	6.3	6.0	.0	.4	34.3	
	PCP	.2	.0	.0	.0	.0	.0	.4	.2	.0	.0	.8	
10+	NO PCP	9.8	4.4	2.1	7.9	3.5	12.1	10.3	10.1	.0	2.9	59.1	
	TOT %	4.0	4.4	2.1	7.9	3.5	12.1	10.7	10.3	.0	2.9	59.9	
	TOT OBS												242
	TOT PCT	10.2	7.3	3.9	9.3	7.3	22.2	18.9	17.5	.0	3.3	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.1	.1	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2	
	0-3	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	
1<2	4-10	.0	.0	.0	.0	.1	.4	.7	.3	.0		1.3	
	11-21	.0	.0	.0	.0	.0	.0	.2	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.1	.7	.9	.3	.0	.0	2.0	
	0-3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
2<5	4-10	.3	.0	.	.0	.2	.1	.8	.6	.0		2.0	
	11-21	.0	.2	.0	.0	.0	.4	.0	.0	.0		.7	
	22+	.0	.0	.0	.0	.0	.0	.2	.2	.0		.4	
	TOT %	.5	.2	.0	.0	.2	.5	1.0	.8	.0	.0	3.3	
	0-3	.0	.2	.4	.0	.2	.8	.3	.0	.0	.2	2.2	
5<10	4-10	2.0	.9	.5	.4	1.1	3.0	2.4	3.9	.0		14.2	
	11-21	.2	.2	.0	.3	.5	1.6	1.6	1.9	.0		6.3	
	22+	.0	.0	.0	.0	.0	.3	.1	.2	.0		.7	
	TOT %	2.2	1.3	1.0	.8	1.8	5.7	4.4	6.0	.0	.2	23.4	
	0-3	.6	.4	.4	1.8	.6	1.2	1.3	1.9	.0	4.6	12.3	
10+	4-10	3.7	3.0	2.5	5.0	2.8	8.0	9.8	11.4	.0		46.2	
	11-21	.6	.7	.0	.4	.5	2.0	3.0	4.3	.0		11.6	
	22+	.0	.0	.3	.0	.0	.7	.4	.0	.0		1.1	
	TOT %	4.9	4.1	3.0	7.2	3.9	11.9	14.6	17.0	.0	4.6	71.1	
	TOT OBS												457
	TOT PCT	7.6	5.6	3.9	8.0	6.1	18.9	21.0	24.1	.0	4.8	100.0	

PERIOD: (PRIMARY) 1879-1969
(D/FR-ALL) 1855-1969

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00E03	2.1	.0	.0	8.5	17.0	10.6	6.4	.0	.0	.0	44.7	55.3	47
06E09	.0	.0	.0	4.0	20.0	4.0	.0	.0	.0	.0	28.0	72.0	25
12E15	.0	.0	.0	.0	11.9	9.5	4.8	.0	.0	.0	26.2	73.8	42
18E21	.0	.0	.0	16.0	8.0	12.0	.0	.0	.0	.0	36.0	64.0	25
TOT	1	0	0	9	20	13	5	0	0	0	48	91	139
PCT	.7	.0	.0	6.5	14.4	9.4	3.6	.0	.0	.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
00E03	.0	.0	1.0	4.0	24.0	71.0	100
06E09	.0	.0	.8	1.6	22.2	75.4	126
12E15	.0	.0	2.1	2.1	24.3	71.3	94
18E21	.0	.6	3.2	4.5	28.0	63.7	157
TOT	0	1	9	15	119	333	477
PCT	.0	.2	1.9	3.1	24.9	69.8	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NM <5/8 AND 5+	TOTAL OBS
00E03	2.2	2.2	13.3	33.3	53.3	45
06E09	.0	.0	4.0	24.0	72.0	25
12E15	.0	.0	7.5	20.0	72.5	40
18E21	.0	.0	23.8	14.3	61.9	21
TOT	1	1	15	32	86	131
PCT	.8	.8	11.5	24.4	65.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	1.4	2.9	.7	.7	8	5.7
80/84	.0	.0	.0	.0	2.1	30.0	41.6	8.6	115	82.1
75/79	.0	.0	.0	.0	.0	.0	5.7	6.4	17	12.1
TOTAL	0	0	0	0	5	66	67	22	140	100.0
PCT	.0	.0	.0	.0	3.6	32.9	47.9	15.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.7	.7	2.1	.7	.0	.7	.4	.4	.0	.0
11.4	7.7	3.9	8.9	7.7	17.5	12.3	10.5	.0	2.1
.5	1.4	.0	.0	1.4	2.3	3.4	2.3	.0	.7
12.7	9.8	6.1	9.6	9.1	20.5	16.1	13.2	.0	2.9

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	87	86	85	81	78	75	75	81.3	202
06E09	93	91	89	84	79	76	73	83.8	485
12E15	87	86	86	82	78	77	75	82.2	215
18E21	91	86	84	81	77	75	73	81.1	445
TOT	93	90	87	82	78	75	73	82.4	1347

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	2.5	32.5	40.0	25.0	83	40
06E09	.0	.0	8.2	44.4	38.9	8.3	79	36
12E15	.0	.0	3.2	35.5	51.6	9.7	82	31
18E21	.0	.0	.0	15.4	65.4	19.2	86	26
TOT	0	0	5	48	80	26	83	139

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PERIOD: (PRIMARY) 1879-1969
(OVER-ALL) 1955-1969

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TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
5	.0	.0	.5	.5	.5	.0	3	.0	1.4
4	.0	.0	.5	.9	.0	.5	5	.0	2.4
3	.0	.0	.5	.9	.0	.0	3	.0	1.4
2	.0	.5	.5	1.9	.0	.0	6	.0	2.8
1	.0	.5	5.7	.5	.0	.0	14	.0	6.6
0	.0	.5	13.3	2.4	.0	.0	34	.5	15.6
-1	.0	1.9	18.0	.5	.0	.0	41	.5	19.9
-2	.0	6.2	16.6	.5	.0	.0	49	.0	23.2
-3	.0	4.7	5.7	.5	.0	.0	23	.0	10.9
-4	.0	3.3	5.2	.0	.0	.0	18	.5	8.1
-5	.0	3.3	.5	.0	.0	.0	8	.0	3.8
-6	.0	.5	.0	.0	.0	.0	1	.0	.5
-7/-8	.5	1.4	.0	.0	.0	.0	4	.0	1.9
TOTAL	1	48	143	17	1	1	211	3	208
PCT	.5	22.7	67.8	8.1	.5	.5	100.0	1.4	98.6

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.6	.0	.0	.0	.0	2.6
1-2	.0	5.4	1.1	.0	.0	.0	6.7
3-4	.0	.0	2.2	.0	.0	.0	2.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.2	3.4	.0	.0	.0	11.6

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.9	1.5	.0	.0	.0	3.4
1-2	.0	1.5	.0	.0	.0	.0	1.5
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.4	1.5	.0	.0	.0	4.9

E

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

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	4.9	.0	.0	.0	.0	.0	4.9
1-2	.0	4.5	.0	.0	.0	.0	4.5
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.9	4.5	.0	.0	.0	.0	9.3

PERIOD (OVER-ALL) 1949-1969 MARCH AREA 0003 SUNDA STRAIT 5.6S 104.8E

TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	3.0	.0	.0	.0	.0	4.1
1-2	.0	3.4	.7	.0	.0	.0	3.4
3-4	.0	.0	1.1	.0	.0	.0	1.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	6.3	1.1	.0	.0	.0	8.6

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	7.8	.0	.0	.0	.0	7.8
1-2	1.5	11.6	3.0	.0	.0	.0	16.0
3-4	.0	.0	.7	.0	.0	.0	.7
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	19.4	3.7	.0	.0	.0	24.6

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.6	.0	.0	.0	.0	2.6
1-2	.0	7.5	.0	.0	.0	.0	7.5
3-4	.0	.0	4.9	.0	.0	.0	4.9
5-6	.0	.0	2.2	.0	.0	.0	2.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	10.1	7.1	.0	.0	.0	17.2

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.0	.0	.0	.0	.0	3.0
1-2	.0	6.3	1.9	.0	.0	.0	8.2
3-4	.0	.0	4.5	.0	.0	.0	4.5
5-6	.0	.0	.7	.0	.0	.0	.7
7	.0	.0	.0	1.5	.0	.0	1.5
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	9.3	7.1	1.5	.0	.0	17.9

HGT	TOTAL PCT
<1	3.0
1-2	8.2
3-4	4.5
5-6	.7
7	1.5
8-9	.0
10-11	.0
12	.0
13-16	.0
17-19	.0
20-22	.0
23-25	.0
26-32	.0
33-40	.0
41-48	.0
49-60	.0
61-70	.0
71-86	.0
87+	.0
TOT PCT	25.5

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	22.1	1.5	.0	.0	.0	33.8	
1-2	1.5	41.2	5.9	.0	.0	.0	48.5	
3-4	.0	.0	13.2	.0	.0	.0	13.2	
5-6	.0	.0	2.9	.0	.0	.0	2.9	
7	.0	.0	.0	1.5	.0	.0	1.5	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.8	63.2	23.5	1.5	.0	.0	100.0	68

PERIOD (OVER-ALL) 1949-1969

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	7.5	30.8	11.2	0.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	60	2
6-7	.9	.9	7.5	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	3
8-9	.0	.0	2.8	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	4
10-11	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
12-13	.0	.0	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	4
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	15.9	3.7	2.8	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	1
TOTAL	24	39	27	13	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	107	2
PCT	24.3	36.4	25.2	12.1	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1961-1971
(OVER-ALL) 1859-1971

AREA 0003 SUNDA STRAIT
5.6S 104.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.0	.0	.0		.0	90.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.9	.0	.0	.0		.0	95.1
E	3.3	3.3	.0	.0	.0	.0	.0	6.6	.0	24.0	.0	[illegible]	.0		.0	69.4
SE	4.0	.0	.0	.0	.0	.0	.0	4.0	.0	26.7	4.0	.0	.0		.0	69.3
S	9.1	9.1	.0	.0	.0	.0	.0	18.2	.0	9.1	.0	.0	.0		.0	72.7
SW	9.0	10.1	.0	.0	.0	.0	.0	19.1	1.1	4.5	.0	.0	.0		.0	75.3
W	.0	4.1	2.7	.0	.0	.0	.0	6.8	4.1	.0	.0	.0	.0		.0	89.2
NW	9.5	.0	4.8	.0	.0	.0	.0	14.3	.0	.0	.0	.0	.0		.0	85.7
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	7.7	15.4	.0	.0	.0		.0	76.9
TOT PCT	4.1	3.5	.6	.0	.0	.0	.0	8.1	1.2	11.6	1.2	.0	.0		.0	78.5
TOT OBS:	172															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
00&03	4.3	6.5	2.2	.0	.0	.0	.0	13.0	2.2	8.7	.0	.0	.0		.0	76.1
06&09	2.2	.0	.0	.0	.0	.0	.0	2.2	2.2	.0	.0	.0	.0		.0	95.6
12&15	2.6	.0	.0	.0	.0	.0	.0	2.6	.0	12.8	5.1	.0	.0		.0	79.5
18&21	8.8	7.0	.0	.0	.0	.0	.0	15.8	.0	24.6	.0	.0	.0		.0	61.4
TOT PCT	4.8	3.7	.5	.0	.0	.0	.0	9.1	1.1	12.3	1.1	.0	.0		.0	77.0
TOT OBS:	187															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.9	3.5	.9	*	.0	.0		6.3	6.2	6.9	6.3	7.8	8.1	5.3	20.0	4.5	4.7
NE	1.9	6.0	1.6	.2	.0	.0		9.6	7.2	10.3	.0	11.3	12.3	8.8	20.0	6.9	8.5
E	2.1	9.0	2.1	.2	.0	.0		13.3	7.3	16.5	.0	10.9	12.9	12.1	20.0	16.3	12.4
SE	3.6	11.9	3.6	.3	.0	.0		19.4	7.6	19.6	12.8	17.6	16.3	25.0	10.0	19.7	19.4
S	2.5	6.2	1.2	*	.0	.0		9.9	6.4	12.4	21.9	8.5	11.0	9.4	30.0	7.6	11.4
SW	2.0	5.6	1.7	.0	.0	.0		10.4	6.7	7.1	34.4	7.9	8.7	14.4	.0	12.5	11.5
W	2.0	7.1	2.5	.2	.0	.0		11.9	7.9	12.4	6.3	12.2	11.7	12.4	.0	12.1	11.0
NW	1.5	6.9	2.1	.3	.2	.1		11.0	8.9	8.8	6.3	14.9	9.8	5.6	.0	10.7	13.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.2							8.2	.0	6.0	12.5	8.8	9.1	7.1	.0	9.6	7.8
TOT OBS	324	688	192	15	2	1	1224		6.8	182	8	306	132	170	5	228	193
TOT PCT	26.6	56.2	15.7	1.2	.2	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.3	1.7	.3	*	.0		6.3	6.2	6.8	7.9	5.7	4.6
NE	5.4	2.7	.5	.0	.0		9.6	7.2	9.9	11.6	9.1	7.7
E	7.1	5.6	.7	.0	.0		13.3	7.3	15.8	11.5	12.3	14.5
SE	9.3	9.0	1.1	.0	.0		19.4	7.6	19.3	17.2	24.6	19.6
S	6.1	3.4	.4	.0	.0		9.9	6.4	12.8	9.2	10.0	9.3
SW	6.3	3.5	.6	.0	.0		10.4	6.7	8.3	8.2	14.0	12.1
W	5.6	5.5	.7	*	.0		11.9	7.9	12.1	12.0	12.0	11.6
NW	5.6	4.1	1.0	.1	.2		11.0	8.9	8.7	13.4	5.4	11.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	8.2						8.2	.0	6.3	8.9	6.9	8.8
TOT OBS	709	447	63	2	3	1224		6.9	190	498	175	421
TOT PCT	57.9	36.5	5.1	.2	.2		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1881-1971
(OVER-ALL) 1855-1971

AREA 0003 SUNDA STRAIT
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	6.3	18.9	55.3	18.9	.0	.5	.0	7.0	100.0	190
06&09	8.9	16.4	57.3	15.3	1.8	.0	.2	6.8	100.0	438
12&15	6.9	17.1	59.4	16.0	.6	.0	.0	6.8	100.0	175
18&21	8.8	20.9	54.2	14.5	1.4	.2	.0	6.7	100.0	421
TOT	100	276	688	192	19	2	1	6.8		1224
PCT	8.2	18.5	56.2	15.7	1.6	.2	.1		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.8	1.1	1.9	.0		4.5
NE	2.5	1.1	3.3	1.1		4.6
E	2.2	7.1	10.2	1.1		4.5
SE	3.3	4.9	5.8	1.1		4.3
S	3.0	2.7	4.7	2.2		5.1
SW	2.5	2.7	6.9	1.4		5.2
W	2.2	1.1	7.4	1.9		5.3
NW	.0	.0	3.8	2.2		6.5
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	6.6	1.1		6.5
TOT OBS	15	19	46	11	91	5.0
TOT PCT	16.5	20.9	50.5	12.1	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	2.7	
NE	.0	.0	.0	.0	1.1	.3	1.1	.0	.0	.0	5.5	
E	.0	.0	.0	1.1	1.1	3.0	.0	.0	.0	.0	15.4	
SE	.0	.0	.0	1.1	3.3	.0	.0	.0	.0	.0	10.7	
S	.0	.0	.8	1.1	.0	.0	.0	.0	.0	.0	10.7	
SW	.0	.0	1.4	.0	2.7	1.1	.0	.0	.0	.0	8.2	
W	.0	.0	1.1	.0	2.5	1.1	.0	.0	.0	.0	8.0	
NW	.0	.0	.0	.0	2.5	1.1	.0	.0	.0	.0	2.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	1.1	2.2	.0	.0	.0	.0	4.4	
TOT OBS	0	0	3	3	13	9	1	0	0	0	62	91
TOT PCT	.0	.0	3.3	3.3	14.3	9.9	1.1	.0	.0	.0	68.1	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	.0	1.0	2.1	2.1	2.1	2.1	2.1	2.1
* OR >2000	8.3	9.4	11.5	11.5	12.5	12.5	12.5	12.5
* OR >1000	18.8	22.9	25.0	25.0	26.0	26.0	26.0	26.0
* OR >600	21.9	26.0	28.1	28.1	29.2	29.2	29.2	29.2
* OR >300	25.0	29.2	31.3	31.3	32.3	32.3	32.3	32.3
* OR >150	25.0	29.2	31.3	31.3	32.3	32.3	32.3	32.3
* OR > 0	25.0	29.2	31.3	31.3	32.3	32.3	32.3	32.3
TOTAL	24	28	30	30	31	31	31	31

TOTAL NUMBER OF OBS: 96 PCT FREQ NH <5/8: 67.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
1.9	12.6	26.2	11.7	12.6	7.8	10.7	9.7	6.8	.0	103

APRIL

PERIOD: (PRIMARY) 1881-1971
(OVER-ALL) 1855-1971

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.6	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.6	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6	
2<5	NO PCP	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	1.2	
	TOT %	.0	.6	.0	.0	.0	.6	.0	.6	.0	.0	1.7	
	PCP	.0	.0	.0	.6	1.7	2.6	.7	.3	.0	.0	5.8	
5<10	NO PCP	.9	4.1	2.6	3.5	4.4	2.0	3.2	.9	.0	1.2	22.7	
	TOT %	.9	4.1	2.6	4.1	6.1	4.5	3.9	1.2	.0	1.2	28.5	
	PCP	.0	.0	.6	.0	.6	.0	.0	.0	.0	.0	1.2	
10+	NO PCP	4.9	7.1	13.8	10.6	6.1	7.8	6.8	4.4	.0	6.4	68.0	
	TOT %	4.9	7.1	14.4	10.6	6.7	7.8	6.8	4.4	.0	6.4	69.2	
	TOT OBS												172
	TOT PCT	5.8	11.8	17.6	14.7	12.8	12.9	10.8	6.1	.0	7.6	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.3	.0	.0	.0	.0	.0	.0		.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.3	.0	.0	.0	.1	.1	.0	.0	.0	.5	
2<5	4-10	.0	.3	.0	.0	.0	.3	.3	.0	.0		.8	
	11-21	.0	.0	.0	.0	.0	.0	.3	.5	.0		.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.5	.0	.0	.0	.4	.6	.5	.0	.0	2.0	
	0-3	.3	.3	.5	.0	.4	.4	.3	.3	.0	.5	2.8	
5<10	4-10	.1	1.8	1.3	2.3	2.5	1.3	1.2	1.1	.0		11.5	
	11-21	.0	.3	.0	.5	.3	.4	1.0	.4	.0		2.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.4	2.3	1.8	2.8	3.1	2.1	2.4	1.8	.0	.5	17.0	
	0-3	1.4	1.7	.6	1.9	2.6	2.9	2.8	1.1	.0	7.5	22.6	
10+	4-10	3.2	4.3	8.3	10.5	4.6	4.9	6.8	6.5	.0		49.1	
	11-21	.4	1.0	2.4	1.3	.4	1.3	1.4	.4	.0		8.5	
	22+	.0	.0	.0	.0	.0	.0	.1	.4	.0		.5	
	TOT %	5.0	7.0	11.3	13.6	7.6	9.1	11.1	8.4	.0	7.5	80.7	
	TOT OBS												999
	TOT PCT	5.4	9.7	13.3	16.4	10.8	11.6	14.2	10.7	.0	8.0	100.0	

PERIOD: (PRIMARY) 1881-1971
(OVER-ALL) 1855-1971

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	6.5	3.2	22.6	6.5	3.2	.0	.0	.0	41.9	58.1	31
06E09	.0	.0	4.3	.0	13.0	13.0	.0	.0	.0	.0	30.4	69.6	23
12E15	.0	.0	.0	.0	9.1	9.1	4.5	.0	.0	.0	22.7	77.3	22
18E21	.0	.0	.0	8.7	4.3	17.4	.0	.0	.0	.0	30.4	69.6	23
TOT	0	0	3	3	13	11	2	0	0	0	32	67	99
PCT	.0	.0	3.0	3.0	13.1	11.1	2.0	.0	.0	.0	32.3	67.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.0	1.1	.0	2.3	17.0	79.5	88
06E09	.0	.0	.0	3.6	6.3	90.2	112
12E15	.0	.0	.0	.0	23.3	76.7	73
18E21	.0	.0	.0	2.9	22.9	74.3	140
TOT	0	1	0	10	71	331	413
PCT	.0	.2	.0	2.4	17.2	80.1	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	9.7	16.1	25.8	58.1	31
06E09	.0	4.5	4.5	27.3	68.2	22
12E15	.0	.0	.0	22.7	77.3	22
18E21	.0	.0	14.3	14.3	71.4	21
TOT	0	4	9	22	65	96
PCT	.0	4.2	9.4	22.9	67.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	2.5	.0	.0	.0	3	2.5
85/89	.0	.0	.0	.0	7.5	9.3	1.7	.0	16	13.6
80/84	.0	.0	.0	.8	.0	22.9	46.6	6.8	91	77.1
75/79	.0	.0	.0	.0	.0	.0	4.2	2.5	8	6.8
TOTAL	0	0	0	1	6	38	62	11	118	100.0
PCT	.0	.0	.0	.8	5.1	32.2	52.5	9.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
1.7	.0	.8	.0	.0	.0	.0	.0	.0	.0
.0	1.3	1.3	1.7	.8	.8	3.2	1.1	.0	3.4
1.5	10.6	13.8	12.9	12.3	9.5	8.3	3.2	.0	5.1
.8	.0	1.7	.8	.0	1.3	1.3	.8	.0	.0
4.0	11.9	17.6	15.5	13.1	11.7	12.7	5.1	.0	8.5

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	97	87	85	82	78	76	75	82.0	190
06E09	94	92	89	84	80	76	74	84.2	423
12E15	87	86	86	83	80	77	77	82.7	170
18E21	90	86	85	82	78	77	75	81.7	413
TOT	97	90	87	83	79	77	74	82.8	1196

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	3.1	18.8	68.8	9.4	83	32
06E09	.0	.0	14.8	59.3	22.2	3.7	76	27
12E15	.0	3.8	.0	38.5	38.5	19.2	81	26
18E21	.0	.0	2.4	17.1	65.9	14.6	84	41
TOT	0	1	6	39	65	15	81	126

APRIL

PERIOD: (PRIMARY) 1881-1971
(OVER-ALL) 1855-1971

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TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.0	.6	1	.0	.6
6	.0	.0	.0	.0	1.3	2	.0	1.3
5	.0	.0	.0	.6	.6	2	.0	1.3
4	.0	.0	.0	.6	.0	1	.0	.6
3	.0	.0	.0	1.3	.0	2	.0	1.3
2	.0	.0	3.1	1.9	.0	8	.0	5.0
1	.0	.6	3.1	1.3	.0	8	.0	5.0
0	.0	.0	13.8	3.8	.0	28	.6	17.0
-1	.0	1.3	14.5	.0	.0	25	.0	15.7
-2	.0	2.5	23.9	1.9	.0	45	.0	28.3
-3	.0	1.3	8.8	.0	.0	16	.0	10.1
-4	.0	1.3	3.1	.0	.0	7	.6	3.8
-5	.0	2.5	2.5	.0	.0	8	.0	5.0
-6	.0	.6	.6	.0	.0	2	.0	1.3
-7/-8	.6	1.3	.0	.0	.0	3	.0	1.9
-9/-10	.0	.6	.0	.0	.0	1	.0	.6
TOTAL	1	19	117	18	4	159	2	157
PCT	.6	11.9	73.6	11.3	2.5	100.0	1.3	98.7

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	1.2	4.4	1.6	.0	.0	.0	7.1
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	4.4	1.6	.0	.0	.0	7.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.4	2.4	4.8	.0	.0	.0	7.5
3-4	.0	.4	1.6	.0	.0	.0	2.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.8	6.3	.0	.0	.0	9.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.6	.0	.0	.0	.0	1.6
1-2	.0	9.9	3.2	.0	.0	.0	13.1
3-4	.0	7.5	.0	.0	.0	.0	7.5
5-6	.0	.0	1.6	.0	.0	.0	1.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	19.0	4.8	.0	.0	.0	23.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	10.7	.0	.0	.0	.0	10.7
3-4	.0	1.6	1.6	.0	.0	.0	3.2
5-6	.0	1.6	.0	.0	.0	.0	1.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	13.9	1.6	.0	.0	.0	15.5

PERIOD: (OVER-ALL) 1963-1971

APRIL

AREA 0003 SUNDA STRAIT
5.6S 104.7E

TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	4.4	1.6	.0	.0	.0	.0	6.0
1-2	1.6	1.2	1.2	.0	.0	.0	4.0
3-4	.0	1.2	1.6	.0	.0	.0	2.8
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	6.0	4.0	2.8	.0	.0	.0	12.7

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.0	.8	.0	.0	.0	.0	2.8
1-2	.0	.4	1.2	.0	.0	.0	1.2
3-4	.0	.4	3.2	.0	.0	.0	3.6
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.0	1.2	4.4	.0	.0	.0	7.5

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	4.0	.0	.0	.0	.0	5.2
1-2	.0	3.2	2.4	.0	.0	.0	5.6
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	7.1	2.4	.0	.0	.0	10.7

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	2.0	1.6	.0	.0	.0	.0	3.6	
1-2	.0	1.6	.0	.0	.0	.0	1.6	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.0	3.2	.0	.0	.0	.0	5.2	92.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	17.5	9.5	.0	.0	.0	.0	27.0	
1-2	3.2	33.3	14.3	.0	.0	.0	50.8	
3-4	.0	11.1	7.9	.0	.0	.0	19.0	
5-6	.0	1.6	1.6	.0	.0	.0	3.2	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	20.6	55.6	23.8	.0	.0	.0	100.0	63

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	11.5	31.0	8.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	45	2
6-7	.0	8.0	6.9	6.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	3
8-9	.0	2.3	3.4	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	3
10-11	.0	1.1	.0	.0	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	4
12-13	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	9.2	2.3	.0	2.3	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	2
TOTAL	18	39	16	10	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	87	2
PCT	20.7	44.8	18.4	11.5	3.4	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1891-1972
(OVER-ALL) 1856-1972

AREA 0003 SUNDA STRAIT
5.5S 104.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	15.7	.0	.0	.0	.0	.0	.0	15.7	5.9	19.6	.0	.0	.0	.0		66.7
NE	2.6	5.1	.0	.0	.0	.0	.0	7.7	1.3	10.3	.0	.0	.0	.0		83.3
E	1.6	.0	.0	.0	.0	.0	.0	1.6	.0	1.6	.0	.0	.0	.0		98.4
SE	6.3	.0	.0	.0	.0	.0	.0	6.3	2.5	10.1	.0	.0	2.5	.0		81.1
S	9.2	3.1	.0	.0	.0	.0	.0	12.3	.0	4.6	.0	.0	.0	.0		83.1
SW	4.5	2.2	.0	.0	.0	.0	.0	6.7	4.5	6.7	.0	.0	.0	.0		82.0
W	6.1	12.1	.0	.0	.0	.0	.0	18.2	12.1	10.6	.0	.0	.0	.0		59.1
NW	16.0	.0	.0	.0	.0	.0	.0	16.0	.0	16.0	.0	.0	.0	.0		68.0
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	10.0	.0	.0	.0	10.0	.0		80.0
TOT PCT	5.7	2.3	.0	.0	.0	.0	.0	8.0	3.4	8.0	.0	.0	1.1	.0		81.0
TOT OBS:	174															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	7.0	2.3	.0	.0	.0	.0	.0	9.3	4.7	2.3	.0	.0	.0	.0		86.0
06&09	2.2	.0	.0	.0	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0		97.8
12&15	4.3	2.1	.0	.0	.0	.0	.0	6.4	2.1	21.3	.0	.0	2.1	.0		70.2
18&21	8.5	6.4	.0	.0	.0	.0	.0	14.9	6.4	8.5	.0	.0	4.3	.0		68.1
TOT PCT	5.5	2.7	.0	.0	.0	0	.0	8.2	3.3	8.2	.0	.0	1.6	.0		80.2
TOT OBS:	182															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.4	3.2	.5	.0	.0	.0		5.0	6.0	6.2	5.6	4.3	4.7	5.2	.0	5.9	4.6
NE	1.7	5.1	.9	.0	.0	.0		7.6	6.4	3.8	5.6	9.6	9.6	10.4	20.0	4.7	5.9
E	2.7	9.5	2.9	.1	.0	.0		15.2	7.4	17.0	22.2	18.8	11.5	12.8	7.5	12.4	16.7
SE	2.7	16.6	7.1	.7	.0	.0		27.1	9.0	29.4	33.3	23.9	26.3	31.0	32.5	27.4	26.4
S	2.3	7.2	2.2	.1	.0	.0		11.8	7.2	11.8	22.2	8.2	14.8	12.1	10.0	16.8	8.7
SW	1.7	5.7	1.1	.1	.0	.0		8.6	6.6	7.7	11.1	9.5	10.5	8.3	15.0	5.3	9.7
W	1.2	5.3	1.4	.2	.0	.0		8.1	7.5	7.4	.0	9.0	5.5	7.7	5.0	9.7	8.5
NW	1.5	3.7	1.4	.5	.1	.0		7.1	8.9	12.4	.0	7.6	5.5	3.6	.0	5.1	9.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.4							9.4	.0	4.2	.0	9.1	11.6	8.9	10.0	12.7	9.7
TOT OBS	319	727	225	20	1	0	1292		7.0	165	9	329	172	192	10	220	195
TOT PCT	24.7	56.3	17.4	1.5	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.3	1.6	.1	.0	.0		5.0	6.0	6.2	4.4	5.0	5.3
NE	4.6	2.8	.2	.0	.0		7.6	6.4	3.9	9.6	10.9	5.2
E	7.7	7.0	.5	*	.0		15.2	7.4	17.2	16.3	12.5	14.4
SE	10.0	14.4	2.6	*	.0		27.1	9.0	29.6	24.8	31.1	26.9
S	6.7	4.4	.7	.0	.0		11.8	7.2	12.4	10.5	12.0	13.0
SW	5.3	3.2	.2	.0	.0		8.6	6.6	7.9	9.8	8.7	7.4
W	4.3	3.4	.4	.0	.0		8.1	7.5	7.0	7.8	7.5	9.1
NW	3.5	2.7	.6	.3	.0		7.1	8.9	11.8	6.9	3.5	7.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	9.4						9.4	.0	4.0	10.0	8.9	11.3
TOT OBS	710	509	68	5	0	1292		7.0	174	501	202	415
TOT PCT	55.0	39.4	5.3	.4	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1891-1972
(OVER-ALL) 1856-1972

AREA 0003 SUNDA STRAIT
5.5S 104.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	4.0	16.7	67.6	15.5	1.1	.0	.0	7.2	100.0	174
06&09	10.0	20.6	52.7	16.6	.2	.0	.0	6.4	100.0	501
12&15	8.9	11.9	53.5	22.3	3.5	.0	.0	7.8	100.0	202
18&21	11.3	9.9	59.3	16.9	2.4	.2	.0	7.2	100.0	415
TOT	122	197	727	225	20	1	0	7.0		1292
PCT	9.4	15.2	56.3	17.4	1.5	.1	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.3	1.3	.0	.0		3.0
NE	1.3	.0	5.5	1.9		6.2
E	4.9	6.8	2.9	1.9		3.7
SE	6.8	7.8	6.5	5.2		4.3
S	1.0	1.0	8.1	.0		5.2
SW	3.6	1.3	3.9	.0		3.9
W	3.2	3.6	6.8	2.6		5.2
NW	1.3	.3	.0	1.3		4.8
VAR	.0	.0	.0	.0		.0
CALM	1.3	2.6	3.9	.0		4.5
TOT OBS	19	19	29	10	77	4.5
TOT PCT	24.7	24.7	37.7	13.0	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	
NE	.0	.0	.0	.0	.0	1.6	.0	.0	.0	.0	7.1	
E	.0	.0	.0	.0	.0	1.9	.0	.0	.0	.0	14.6	
SE	.0	.0	.0	.0	2.9	1.6	.0	.0	.0	.0	21.8	
S	.0	.0	.0	.0	2.3	.0	1.3	.0	.0	.0	6.5	
SW	.0	.0	.0	.3	1.3	.0	.0	.0	.0	.0	7.1	
W	.0	.0	.0	3.6	.0	2.6	.0	.0	.0	.0	10.1	
NW	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	1.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	6.5	
TOT OBS	0	0	0	3	6	7	1	0	0	0	60	77
TOT PCT	.0	.0	.0	3.9	7.8	9.1	1.3	.0	.0	.0	77.9	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
* OR >2000	7.5	10.0	10.0	10.0	10.0	10.0	10.0	10.0
* OR >1000	13.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8
* OR >600	15.0	22.5	22.5	22.5	22.5	22.5	22.5	22.5
* OR >300	15.0	22.5	22.5	22.5	22.5	22.5	22.5	22.5
* OR >150	15.0	22.5	22.5	22.5	22.5	22.5	22.5	22.5
* OR > 0	15.0	22.5	22.5	22.5	22.5	22.5	22.5	22.5
TOTAL	12	18	18	18	18	18	18	18

TOTAL NUMBER OF OBS: 80 PCT FREQ NH <5/8: 77.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
8.3	14.3	26.1	21.7	9.8	4.3	6.5	5.4	6.5	.0	92

PERIOD: (PRIMARY) 1891-1972
(OVER-ALL) 1856-1972

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.3	.0	.0	.0	.0	.0	.0	.3	.0	.0	.6	
	TOT %	.3	.0	.0	.0	.0	.0	.0	.3	.0	.0	.6	
	PCP	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	
	PCP	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.6	
1<2	NO PCP	.0	.6	.0	.6	.0	.0	.0	.0	.0	.6	1.7	
	TOT %	.0	.6	.0	.9	.3	.0	.0	.0	.0	.6	2.3	
	PCP	.6	.0	.0	.0	.3	.3	.0	.0	.0	.0	1.1	
2<5	NO PCP	.0	.0	.6	.0	.4	.1	.0	.0	.0	.0	1.1	
	TOT %	.6	.0	.6	.0	.7	.4	.0	.0	.0	.0	2.3	
	PCP	.0	.3	.3	.6	.3	.3	1.7	.0	.0	.0	3.4	
5<10	NO PCP	2.0	4.3	6.0	4.0	2.9	5.5	1.4	.9	.0	1.7	28.7	
	TOT %	2.0	4.6	6.3	4.6	3.2	5.7	3.2	.9	.0	1.7	32.2	
	PCP	.0	.6	.0	.6	.3	.3	.0	.6	.0	.0	2.3	
10+	NO PCP	3.9	5.5	10.8	16.8	4.9	6.3	5.3	1.9	.0	3.4	59.8	
	TOT %	3.9	6.0	10.8	17.4	5.2	6.6	6.3	2.4	.0	3.4	62.1	
	TOT OBS												174
	TOT PCT	7.3	11.2	17.7	22.8	9.3	12.8	9.5	3.6	.0	5.7	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.1	.0	.0	.0	.0	.0	.0	.1	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.2	.0	.0	.0	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
1<2	4-10	.0	.5	.1	.5	.1	.0	.0	.0	.0		1.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.2	.0	.0	.0		.2	
	TOT %	.0	.5	.1	.5	.1	.2	.0	.0	.0	.2	1.7	
	0-3	.2	.0	.2	.1	.1	.0	.0	.0	.0	.2	1.0	
2<5	4-10	.0	.0	.1	.5	.4	.2	.0	.0	.0		1.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.0	.4	.6	.5	.2	.0	.0	.0	.2	2.2	
	0-3	.1	.0	.2	.2	.5	.5	.2	.1	.0	.7	2.7	
5<10	4-10	.4	1.7	2.3	2.3	1.3	2.1	1.3	.5	.0		11.8	
	11-21	.5	.5	.7	.5	.2	.8	.5	.1	.0		3.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	1.0	2.2	3.3	3.0	2.1	3.4	2.1	.7	.0	.7	18.4	
	0-3	1.4	1.7	2.1	2.1	1.9	.9	1.2	1.3	.0	6.0	18.6	
10+	4-10	2.5	3.9	9.5	17.0	7.1	4.0	4.0	2.1	.0		50.0	
	11-21	.0	.6	1.2	3.7	.8	.8	.6	.4	.0		8.2	
	22+	.0	.0	.0	.5	.0	.0	.0	.0	.0		.5	
	TOT %	3.9	6.2	12.7	23.4	9.8	5.8	5.8	3.7	.0	6.0	77.3	
	TOT OBS												414
	TOT PCT	5.5	8.8	16.5	27.5	12.3	9.6	7.9	4.5	.0	7.2	100.0	

PERIOD: (PRIMARY) 1891-1972
(OVER-ALL) 1856-1972

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00Z03	.0	.0	.0	10.5	10.5	10.5	5.3	.0	.0	.0	36.8	63.2	19
06Z09	.0	.0	.0	.0	8.3	4.2	.0	.0	.0	.0	12.5	87.5	24
12Z15	.0	.0	.0	4.0	12.0	4.0	.0	.0	.0	.0	20.0	80.0	25
18Z21	.0	.0	.0	.0	.0	14.3	.0	.0	.0	.0	14.3	85.7	21
TOT	0	0	0	3	7	7	1	0	0	0	18	71	89
PCT	.0	.0	.0	3.4	7.9	7.9	1.1	.0	.0	.0	20.2	79.8	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
00Z03	.0	.0	1.3	1.3	20.8	76.6	77
06Z09	.0	.0	1.6	.0	13.0	85.4	123
12Z15	1.1	.0	2.3	6.8	18.2	71.6	88
18Z21	.0	.7	2.2	1.5	22.4	73.1	134
TOT	1	1	8	9	78	325	422
PCT	.2	.2	1.9	2.1	18.5	77.0	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00Z03	.0	.0	11.8	29.4	58.8	17
06Z09	.0	.0	.0	13.6	86.4	22
12Z15	.0	.0	9.1	18.2	72.7	22
18Z21	.0	.0	.0	15.8	84.2	19
TOT	0	0	4	15	61	80
PCT	.0	.0	5.0	18.8	76.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	1.7	8.5	4.3	.9	18	15.4
80/84	.0	.0	.0	.0	4.3	19.7	45.3	12.0	95	81.2
75/79	.0	.0	.0	.0	.0	.0	.9	2.6	4	3.4
TOTAL	0	0	0	0	7	33	59	18	117	100.0
PCT	.0	.0	.0	.0	6.0	28.2	50.4	15.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.4	3.4	3.4	2.1	1.5	2.1	.6	.9	.0	.9
	2.6	8.6	15.4	18.2	7.1	10.0	11.3	1.9	.0	6.0
	.0	.0	.9	1.7	.9	.0	.0	.0	.0	.0
	3.0	12.2	19.7	22.0	9.4	12.2	12.0	2.8	.0	6.8

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00Z03	86	85	85	82	79	77	77	82.1	161
06Z09	94	91	89	84	81	78	75	84.4	476
12Z15	87	86	86	83	80	79	77	82.9	198
18Z21	88	86	85	82	79	77	75	81.9	401
TOT	94	90	87	83	80	77	75	83.1	1236

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00Z03	.0	.0	3.8	26.9	53.8	15.4	82	26
06Z09	.0	.0	19.2	38.5	34.6	7.7	78	26
12Z15	.0	.0	2.9	38.2	47.1	11.8	81	34
18Z21	.0	.0	.0	10.9	56.8	24.3	85	37
TOT	0	0	7	37	60	19	82	123

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TABLE 17

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

AIR-SEA TMP DIF	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
6	.0	.0	.0	.6	1	.0	.6
4	.0	.6	.6	.0	2	.0	1.3
3	.0	.6	.0	.0	2	.0	1.3
2	.0	8.4	2.6	.6	18	.0	11.6
1	.0	1.3	3.9	.0	8	.0	5.2
0	.6	12.3	3.9	.0	26	.0	16.8
-1	.6	11.6	3.2	.0	24	.0	15.5
-2	1.3	14.8	1.9	.0	28	.0	18.1
-3	.6	6.5	1.3	.0	13	.0	8.4
-4	3.9	6.5	.6	.0	17	.0	11.0
-5	3.9	2.6	.6	.0	11	.0	7.1
-6	.0	.6	.0	.0	1	.0	.6
-7/-8	1.9	.6	.0	.0	4	.0	2.6
TOTAL	21	103	29	2	155	0	155
PCT	13.5	66.5	18.7	1.3	100.0		100.0

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

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

N

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

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.6	.0	.0	.0	.0	2.6
1-2	2.1	4.7	.0	.0	.0	.0	6.8
3-4	.0	.0	2.1	.0	.0	.0	2.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.1	7.3	2.1	.0	.0	.0	11.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.1	3.6	.0	.0	.0	.0	5.7
1-2	.0	7.8	.0	.0	.0	.0	7.8
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.1	11.5	.0	.0	.0	.0	13.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.6	2.6	.0	.0	.0	.0	5.2
1-2	.0	10.4	2.1	.0	.0	.0	12.5
3-4	.0	2.6	6.3	.0	.0	.0	8.9
5-6	.0	.0	2.1	2.1	.0	.0	4.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	2.1	.0	.0	.0	2.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.6	15.6	12.5	2.1	.0	.0	32.8

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TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.6	3.6	.0	.0	.0	.0	5.2
1-2	.0	5.7	.0	.0	.0	.0	5.7
3-4	.0	1.6	.0	.0	.0	.0	1.6
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	10.9	.0	.0	.0	.0	12.5

SW

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

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	7.3	.0	.0	.0	.0	7.3
3-4	.0	.0	2.1	.0	.0	.0	2.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.3	2.1	.0	.0	.0	9.4

NW

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

HGT	TOTAL PCT
<1	
1-2	
3-4	
5-6	
7	
8-9	
10-11	
12	
13-16	
17-19	
20-22	
23-25	
26-32	
33-40	
41-48	
49-60	
61-70	
71-86	
87+	
TOT PCT	87.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	20.8	14.6	.0	.0	.0	.0	35.4	
1-2	2.1	39.6	2.1	.0	.0	.0	43.8	
3-4	.0	4.2	10.4	.0	.0	.0	14.6	
5-6	.0	.0	2.1	2.1	.0	.0	4.2	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	2.1	.0	.0	.0	2.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								48
TOT PCT	22.9	58.3	16.7	2.1	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	12.3	33.8	7.7	4.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38	2
6-7	.0	.0	7.7	9.2	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	4
8-9	.0	.0	1.5	.0	1.5	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	7
10-11	.0	.0	1.5	.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	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	9.2	3.1	3.1	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	1
TOTAL	14	24	14	10	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	65	3
PCT	21.5	36.9	21.5	15.4	3.1	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1885-1971
(OVER-ALL) 1855-1971

AREA 0003 SUNDA STRAIT
5.6S 104.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	5.5	.0	5.5	.0	.0		.0	89.0
E	.0	.0	.0	.0	.0	.0	.0	.0	2.8	1.4	2.8	.0	.0		.0	93.0
SE	2.2	3.5	.0	.0	.0	.0	.0	5.8	.0	11.5	.0	.0	3.5		.0	81.0
S	2.8	.0	.0	.0	.0	.0	.0	2.8	.0	.0	3.7	.0	.0		.0	93.6
SW	.0	5.9	.0	.0	.0	.0	.0	5.9	.0	11.8	.0	.0	.0		.0	82.4
W	8.7	13.0	.0	.0	.0	.0	.0	21.7	.0	8.7	.0	.0	.0		.0	69.6
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	10.0	.0	.0	.0	.0	.0	.0	10.0	.0	10.0	.0	.0	.0		.0	80.0
TOT PCT	2.2	2.2	.0	.0	.0	.0	.0	4.5	1.1	5.6	1.7	.0	1.1		.0	86.5
TOT OBS:	178															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.5	5.0	.0	.0	.0	.0	.0	7.5	2.5	.0	.0	.0	.0		.0	90.0
06&09	.0	2.2	2.2	.0	.0	.0	.0	4.3	.0	.0	.0	.0	.0		.0	95.7
12&15	.0	2.1	.0	.0	.0	.0	.0	2.1	2.1	6.3	2.1	.0	4.2		.0	83.3
18&21	5.8	.0	.0	.0	.0	.0	.0	5.8	.0	13.5	3.8	.0	.0		.0	78.8
TOT PCT	2.2	2.2	.5	.0	.0	.0	.0	4.8	1.1	5.4	1.6	.0	1.1		.0	86.6
TOT OBS:	186															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.7	2.7	.3	*	.0	.0		3.7	6.0	2.5	.0	3.1	6.4	4.0	.0	3.2	4.3
NE	1.1	5.2	1.3	.0	.0	.0		7.6	7.5	8.2	20.0	8.6	10.1	9.5	.0	4.4	5.6
E	2.1	11.8	4.2	.3	.0	.0		18.5	8.4	19.3	20.0	21.6	17.5	17.6	5.0	14.8	19.4
SE	3.0	17.9	12.0	1.5	.0	.0		34.4	10.0	40.4	40.0	32.7	32.8	33.5	30.0	33.7	34.2
S	1.6	6.6	3.6	.1	.0	.0		11.9	8.9	10.9	.0	7.1	10.7	12.8	35.0	17.4	13.3
SW	1.6	4.1	1.1	.1	.0	.0		6.8	7.0	5.3	.0	6.4	9.5	3.6	.0	11.9	10.4
W	1.0	2.9	.8	.0	.0	.0		4.7	7.4	3.5	20.0	5.4	5.5	5.2	20.0	3.5	3.8
NW	1.0	2.2	.7	.2	.0	.0		4.1	7.8	4.2	.0	4.9	5.8	2.6	10.0	4.8	2.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.2							8.2	.0	5.7	.0	10.2	8.6	11.4	.0	6.2	7.1
TOT OBS	260	685	308	28	0	0	1281		8.0	192	5	294	163	193	10	226	198
TOT PCT	20.3	53.5	24.0	2.2	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.6	1.0	.1	.0	.0		3.7	6.0	2.4	4.3	3.8	3.7
NE	3.6	3.7	.3	.0	.0		7.6	7.5	8.5	9.1	9.0	5.0
E	7.3	9.9	1.2	*	.0		18.5	8.4	19.3	20.1	17.0	17.0
SE	11.4	17.8	5.0	.2	.0		34.4	10.0	40.4	32.8	33.4	34.0
S	4.6	5.8	1.5	.0	.0		11.9	8.9	10.7	8.4	13.7	15.4
SW	3.8	2.7	.3	.0	.0		6.8	7.0	5.2	5.0	3.4	11.2
W	2.1	2.5	.1	.0	.0		4.7	7.4	3.9	5.4	5.9	3.7
NW	2.2	1.4	.5	.0	.0		4.1	7.8	4.1	5.3	3.0	3.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	8.2						8.2	.0	5.6	9.6	10.8	6.6
TOT OBS	588	575	115	3	0	1281		8.0	197	457	203	424
TOT PCT	45.9	44.9	9.0	.2	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1885-1971
(OVER-ALL) 1885-1971

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	5.6	11.2	51.3	29.9	2.0	.0	.0	8.5	100.0	197
06&09	9.6	13.3	51.6	23.4	2.0	.0	.0	7.7	100.0	457
12&15	10.8	12.8	57.7	22.2	1.5	.0	.0	7.6	100.0	203
18&21	6.6	10.8	56.8	22.9	2.8	.0	.0	8.2	100.0	424
TOT	105	155	685	308	28	0	0	8.0		1281
PCT	8.2	12.1	53.5	24.0	2.2	.0	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	1.9	.0		6.0
NE	3.9	5.2	.3	2.9		3.9
E	4.9	5.2	6.5	3.6		4.5
SE	10.4	9.1	13.9	2.3		3.9
S	5.5	3.9	3.2	1.6		3.5
SW	.0	.0	2.9	1.6		6.4
W	1.3	.0	2.6	1.0		5.3
NW	.0	.0	.3	1.3		7.4
VAR	.0	.0	.0	.0		.0
CALM	.0	1.3	3.9	.0		5.2
TOT OBS	23	19	27	11	77	4.3
TOT PCT	26.0	24.7	35.1	14.3	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	1.0	
NE	.0	.0	.0	.3	1.3	.0	.0	.0	.0	.0	10.7	
E	.0	.0	.0	2.3	.0	2.6	.0	.0	.0	.0	15.3	
SE	.0	.0	.0	.3	2.9	1.9	1.3	.0	.0	.0	28.8	
S	.0	.0	.0	1.0	1.0	.6	.0	.0	.0	.0	11.7	
SW	.0	.0	.0	1.3	1.3	.0	.0	.0	.0	.0	1.9	
W	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	3.6	
NW	.0	.0	1.3	.0	.0	.3	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	2.6	.0	.0	.0	.0	.0	2.6	
TOT OBS	0	0	2	4	7	5	1	0	0	0	58	77
TOT PCT	.0	.0	2.6	5.2	9.1	6.5	1.3	.0	.0	.0	75.3	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
* OR >2000	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
* OR >1000	15.0	16.3	16.3	16.3	16.3	16.3	16.3	16.3
* OR >600	18.8	22.5	22.5	22.5	22.5	22.5	22.5	22.5
* OR >300	21.3	25.0	25.0	25.0	25.0	25.0	25.0	25.0
* OR >150	21.3	25.0	25.0	25.0	25.0	25.0	25.0	25.0
* OR > 0	21.3	25.0	25.0	25.0	25.0	25.0	25.0	25.0
TOTAL	17	20	20	20	20	20	20	20

TOTAL NUMBER OF OBS: 80 PCT FREQ NH <5/8: 75.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
6.8	14.8	22.7	19.3	12.5	8.0	6.8	3.4	5.7	.0	88

PERIOD: (PRIMARY) 1885-1971
(OVERALL) 1855-1971

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.6	
<1/2	NO PCP	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.6	
	TOT %	.0	.0	.6	.0	.0	.0	.6	.0	.0	.0	1.1	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	NO PCP	.0	.0	1.4	2.0	.6	.0	.0	.0	.0	.0	4.0	
	TOT %	.0	.0	1.4	2.0	.6	.0	.0	.0	.0	.0	4.0	
	PCP	.0	.0	.0	1.8	.4	.9	.8	.0	.0	.6	4.0	
5<10	NO PCP	1.1	2.5	4.8	4.2	5.4	1.8	1.8	.H	.0	.6	23.2	
	TOT %	1.1	2.5	4.8	6.1	5.8	2.1	2.7	.A	.0	1.1	27.1	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10+	NO PCP	2.1	7.8	13.5	23.9	9.0	2.7	3.2	1.8	.0	4.0	67.8	
	TOT %	2.1	7.8	13.3	23.9	9.0	2.7	3.2	1.8	.0	4.0	67.8	
	TOT OBS												177
	TOT PCT	3.2	10.3	20.1	31.9	15.4	4.8	6.5	2.7	.0	5.1	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.3	.3	.3	.0	.0	.0	.0		.8	
	11-21	.0	.0	.0	.0	.0	.0	.3	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.3	.3	.3	.0	.3	.0	.0	.0	1.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.1	.1	.0	.0	.0	.0		.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.3	
	0-3	.0	.0	.3	.3	.3	.0	.0	.0	.0	.0	.8	
2<5	4-10	.0	.0	.4	.7	.0	.0	.0	.0	.0		1.1	
	11-21	.0	.0	.0	.0	.0	.0	.1	.1	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.7	.9	.3	.0	.1	.1	.0	.0	2.1	
	0-3	.0	.1	.7	.0	.1	.2	.6	.4	.0	.8	2.9	
5<10	4-10	.5	1.1	1.3	2.3	2.1	.8	.7	.3	.0		9.1	
	11-21	.5	.4	.6	1.5	1.4	.0	.0	.4	.0		4.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	1.1	1.6	2.5	3.8	3.7	1.0	1.3	1.1	.0	.8	16.9	
	0-3	.4	1.3	2.0	1.9	.3	.5	.9	.4	.0	5.9	13.7	
10+	4-10	2.6	4.4	9.9	18.8	7.3	2.5	2.2	1.9	.0		49.6	
	11-21	.0	.4	2.7	9.9	2.3	.3	.0	.0	.0		15.7	
	22+	.0	.0	.3	.3	.0	.0	.0	.0	.0		.3	
	TOT %	3.0	6.1	14.8	30.8	9.9	3.6	3.2	2.3	.0	5.9	79.6	
	TOT OBS												373
	TOT PCT	4.1	7.7	18.3	38.0	14.3	4.6	4.8	3.6	.0	6.7	100.0	

PERIOD: (PRIMARY) 1885-1971
(OVER-ALL) 1855-1971

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	4.2	8.3	12.5	4.2	4.2	.0	.0	.0	33.3	66.7	24
06E09	.0	.0	5.0	5.0	10.0	10.0	.0	.0	.0	.0	30.0	70.0	20
12E15	.0	.0	.0	.0	.0	5.0	.0	.0	.0	.0	5.0	95.0	20
18E21	.0	.0	.0	8.7	8.7	4.3	.0	.0	.0	.0	21.7	78.3	23
TOT	0	0	2	5	7	5	1	0	0	0	20	67	87
PCT	.0	.0	2.3	5.7	8.0	5.7	1.1	.0	.0	.0	23.0	77.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	1.5	.0	.0	3.0	22.4	73.1	67
06E09	.9	.0	.0	1.8	15.5	81.8	110
12E15	1.2	1.2	1.2	3.7	13.6	79.0	81
18E21	.8	.0	.0	.8	20.2	78.2	124
TOT	4	1	1	8	68	300	382
PCT	1.0	.3	.3	2.1	17.8	78.5	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	4.2	12.5	20.8	66.7	24
06E09	.0	5.3	15.8	21.1	63.2	19
12E15	.0	.0	.0	6.3	93.8	16
18E21	.0	.0	9.5	14.3	76.2	21
TOT	0	2	8	13	59	80
PCT	.0	2.5	10.0	16.3	73.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	3.6	6.3	1.8	.0	13	11.6
80/84	.0	.0	.0	.0	1.8	29.5	40.2	9.8	91	81.3
75/79	.0	.0	.0	.0	.0	.0	4.5	2.7	8	7.1
TOTAL	0	0	0	0	6	40	52	14	112	100.0
PCT	.0	.0	.0	.0	5.4	35.7	46.4	12.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	1.8	3.6	6.3	.0	.0	.0	.0	.0	.0
	4.5	11.4	19.0	22.3	13.4	2.9	1.6	.9	.0	5.4
	.0	.0	.9	1.1	2.0	1.3	1.8	.0	.0	.0
	4.5	13.2	23.4	29.7	15.4	4.2	3.3	.9	.0	5.4

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	88	86	85	82	78	77	76	81.5	192
06E09	94	90	87	83	79	76	73	83.5	441
12E15	92	90	86	82	80	79	77	82.7	200
18E21	88	85	84	82	78	75	74	81.4	412
TOT	94	89	86	82	78	76	73	82.4	1245

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	.0	23.3	63.3	13.3	84	30
06E09	.0	.0	24.0	52.0	16.0	8.0	77	25
12E15	.0	.0	.0	46.4	39.3	14.3	80	28
18E21	.0	.0	.0	32.4	56.8	10.8	82	37
TOT	0	0	6	45	55	14	81	120

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PERIOD: (PRIMARY) 1865-1971
(OVER-ALL) 1855-1971

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TABLE 17

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

AIR-SEA TMP DIF	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
7/8	.0	.0	.6	1.2	2	.0	1.9
6	.0	.0	.0	.6	1	.0	.6
5	.0	.6	.6	1.2	4	.0	2.5
4	.0	.0	2.5	.0	4	.0	2.5
3	.0	.6	.0	.0	1	.0	.6
2	.6	3.1	2.5	.0	10	.0	6.2
1	.0	4.9	.6	.0	9	.6	4.9
0	.6	15.4	3.1	.0	31	1.2	17.9
-1	.6	11.1	1.9	.0	22	.0	19.6
-2	2.5	16.0	.6	.0	31	.0	19.1
-3	3.7	8.0	.6	.0	20	.0	12.3
-4	2.5	3.1	.6	.0	10	.0	6.2
-5	1.9	4.3	.0	.0	10	.0	6.2
-6	1.2	.6	.0	.0	3	.0	1.9
-7/-8	.6	.0	.0	.0	1	.0	.6
-9/-10	.6	.0	.0	.0	1	.0	.6
-11/-13	.6	.0	.0	.0	1	.0	.6
TOTAL	25		22		3		159
		110		5	162		
PCT	15.4	67.9	13.6	3.1	100.0	1.9	98.1

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

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

N

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

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.8	1.8	.0	.0	.0	.0	3.6
1-2	1.8	4.5	.0	.0	.0	.0	6.3
3-4	.0	1.8	.0	.0	.0	.0	1.8
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.6	8.0	.0	.0	.0	.0	11.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.8	1.8	.0	.0	.0	.0	3.6
1-2	1.8	3.1	1.8	.0	.0	.0	6.7
3-4	.0	4.9	3.1	.0	.0	.0	8.0
5-6	.0	.0	1.3	.0	.0	.0	1.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.6	9.8	6.3	.0	.0	.0	19.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	7.1	.0	.0	.0	.0	7.1
1-2	.0	9.4	2.2	.0	.0	.0	11.6
3-4	.0	2.2	4.0	.0	.0	.0	6.3
5-6	.0	1.8	6.3	.0	.0	.0	8.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	20.5	12.5	.0	.0	.0	33.0

PERIOD: (OVER-ALL) 1963-1971

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TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.8	.0	.0	.0	.0	1.8
1-2	.0	6.7	1.3	.0	.0	.0	8.0
3-4	.0	1.8	.0	.0	.0	.0	1.8
5-6	.0	.0	3.1	.0	.0	.0	3.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	10.3	4.5	.0	.0	.0	14.7

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4
1-2	.0	1.8	.0	.0	.0	.0	1.8
3-4	.0	.0	1.8	.0	.0	.0	1.8
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.2	1.8	.0	.0	.0	4.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3
1-2	.0	1.8	.0	.0	.0	.0	1.8
3-4	.0	1.8	1.8	.0	.0	.0	3.6
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.9	1.8	.0	.0	.0	6.7

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	1.8	.0	.0	.0	.0	1.8	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.8	.0	.0	.0	.0	1.8	92.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	10.5	14.0	.0	.0	.0	.0	24.6	
1-2	3.5	29.8	5.3	.0	.0	.0	38.6	
3-4	.0	14.0	10.5	.0	.0	.0	24.6	
5-6	.0	1.8	10.5	.0	.0	.0	12.3	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	14.0	59.6	26.3	.0	.0	.0	100.0	57

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.3	23.2	17.4	10.1	1.4	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	40	3
6-7	.0	1.4	5.8	5.8	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	4
8-9	.0	.0	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
10-11	.0	.0	.0	1.4	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	7
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	8.7	2.9	4.3	2.9	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
TOTAL	9	19	19	16	2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	14	2
PCT	13.0	27.5	27.5	23.2	2.9	5.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	69	3
																				100.0	

JULY

PERIOD: (PRIMARY) 1880-1972
(OVER-ALL) 1854-1972

AREA 0003 SUNDA STRAIT
5.0S 104.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	13.3	13.3	.0	.0	.0	.0	26.7	13.3	.0	.0	.0	13.3		.0	40.7
NE	.0	11.1	.0	.0	.0	.0	.0	11.1	.0	.0	.0	.0	.0		.0	88.9
E	.0	3.7	.0	.0	.0	.0	.0	3.7	3.6	.0	.0	.0	3.7		.0	92.1
SE	.0	1.1	.0	.0	.0	.0	.0	1.1	.4	3.0	.0	.0	.7		.0	94.8
S	4.4	2..	.0	.0	.0	.0	.0	6.7	.0	.0	.0	.0	3.3		.0	90.0
SW	6.1	.0	9.1	.0	.0	.0	.0	9.1	9.1	.0	.0	.0	.0		.0	81.8
W	.0	.0	26.1	.0	.0	.0	.0	26.1	39.1	.0	.0	.0	.0		.0	34.8
NW	.0	.0	.0	.0	.0	.0	.0	.0	11.1	.0	.0	.0	.0		.0	88.9
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	4.0	3.0	2.0	.0	.0	.0	.0	5.6	3.0	1.0	.0	.0	2.0		.0	88.3
TOT OBS:	197															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.4	1.7	3.4	.0	.0	.0	.0	6.9	3.4	1.7	.0	.0	.0		.0	87.9
06&09	1.9	5.8	1.9	.0	.0	.0	.0	9.6	1.9	.0	1.9	.0	3.8		.0	82.7
12&15	.0	2.0	2.0	.0	.0	.0	.0	4.0	4.0	2.0	.0	.0	4.0		.0	86.0
18&21	3.8	3.8	1.9	.0	.0	.0	.0	9.4	1.9	1.9	1.9	.0	.0		.0	84.9
TOT PCT	2.3	3.3	2.3	.0	.0	.0	.0	7.5	2.8	1.4	.9	.0	1.9		.0	85.4
TOT OBS:	213															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.8	2.1	.3	.0	.0	.0		3.3	6.3	1.7	.0	3.5	4.4	4.3	.0	4.3	1.7
NE	1.6	5.8	.8	.1	.0	.0		8.4	6.8	6.7	.0	8.9	12.8	11.3	11.1	6.6	4.7
E	2.6	10.3	4.9	1.1	.1	.0		18.9	9.3	20..	55.6	22.9	18.4	23.1	11.1	12.8	14.6
SE	2.9	17.1	13.8	2.2	.1	.0		36.0	10.8	42.5	27.8	33.0	36.0	32..	44.4	36.5	38.4
S	1.3	7.7	3.9	.2	.0	.0		13.1	9.0	12.4	16.7	10.1	8.1	14.1	5.6	15.5	18.6
SW	1.6	3.8	.9	.0	.0	.0		6.3	6.7	2.9	.0	7.1	6.4	7.6	5.6	9.0	5.4
W	.7	2.6	.6	.0	.0	.0		3.9	7.1	4.6	.0	3.5	4.7	1.9	8.3	4.6	5.0
NW	.6	2.0	.6	.1	.0	.0		3.3	7.5	3.2	.0	3.3	3.7	1.4	2.8	4.3	3.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.7							6.7	.0	5.5	.0	7.8	5.4	5.8	11.1	7.3	7.7
TOT OBS	255	695	347	50	2	0	1349		8.5	201	9	361	148	208	9	232	181
TOT PCT	18.9	51.5	25.7	3.7	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.1	1.1	.1	.0	.0		3.3	6.3	1.7	3.7	4.1	3.1
NE	4.9	3.2	.3	.0	.0		8.4	6.8	6.6	10.1	11.3	5.8
E	8.6	7.8	2.4	.4	.0		18.9	9.3	21.9	21.6	19.7	13.6
SE	10.0	19.2	6.7	.2	.0		36.0	10.8	41.9	33.8	32.9	37.3
S	5.0	6.7	1.4	.0	.0		13.1	9.0	12.6	9.5	14.7	16.9
SW	3.7	2.6	.1	.0	.0		6.3	6.7	2.7	6.9	7.5	8.8
W	2.1	1.7	.1	.0	.0		3.9	7.1	4.4	3.8	2.2	4.8
NW	1.7	1.4	.2	.0	.0		3.3	7.5	3.1	3.4	1.5	4.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	6.7						6.7	.0	5.2	7.1	6.0	7.5
TOT OBS	601	589	152	7	0	1349		8.5	210	309	217	413
TOT PCT	44.6	43.7	11.3	.5	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1880-1972
(OVER-ALL) 1854-197?

AREA 0003 SUNDA STRAIT
5.0S 104.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	5.2	8.1	55.7	24.8	5.7	.5	.0	9.1	100.0	210
06&09	7.1	14.7	47.2	26.5	4.5	.0	.0	8.5	100.0	509
12&15	6.0	14.3	53.5	23.0	3.2	.0	.0	8.2	100.0	217
18&21	7.5	9.9	53.8	26.6	1.9	.2	.0	8.4	100.0	413
TOT	91	164	695	347	50	2	0	8.5		1349
PCT	6.7	12.2	51.5	25.7	3.7	.1	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.9	.0	.9	.9		5.0
NE	.2	.2	.0	1.8		7.0
E	9.1	6.2	7.5	2.2		3.7
SE	12.6	10.0	12.2	3.1		3.8
S	4.2	4.0	1.5	.9		3.2
SW	.4	1.8	4.2	1.5		5.7
W	.0	.0	1.1	2.7		7.7
NW	.0	.9	.9	.2		4.5
VAR	.0	.0	.0	.0		.0
CALM	4.4	.0	2.7	.9		3.4
TOT OBS	36	26	35	16	113	4.1
TOT PCT	31.9	23.0	31.0	14.2	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.9	
NE	.0	.0	.0	.0	.0	1.8	.0	.0	.0	.0	.4	
E	.7	.0	.0	1.8	.7	1.8	.0	.0	.0	.0	20.1	
SE	.2	.0	.0	2.7	2.0	.0	.0	.0	.0	.0	33.0	
S	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	9.7	
SW	.0	.0	.0	.0	2.0	1.8	.4	.0	.0	.0	3.8	
W	.0	.0	.7	.0	1.5	.0	.4	.0	.0	.0	1.1	
NW	.0	.0	.2	.9	.0	.0	.0	.0	.0	.0	.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.9	.0	.9	.0	.0	.0	.0	.0	6.2	
TOT OBS	1	1	2	6	10	6	1	0	0	0	86	.13
TOT PCT	.9	.9	1.8	5.3	8.8	5.3	.9	.0	.0	.0	76.1	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) • OR >10	• OR >5	• OR >2	• OR >1	• OR >1/2	• OR >1/4	• OR >50YD	• OR >0
• OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
• OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
• OR >3500	.8	.8	.8	.8	.8	.8	.8	.8
• OR >2000	5.0	5.8	5.8	5.8	5.8	5.8	5.8	5.8
• OR >1000	10.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
• OR >600	15.0	20.8	20.8	20.8	20.8	20.8	20.8	20.8
• OR >300	15.8	22.5	22.5	22.5	22.5	22.5	22.5	22.5
• OR >150	15.8	22.5	22.5	23.3	23.3	23.3	23.3	23.3
• OR > 0	15.8	22.5	22.5	23.3	23.3	23.3	24.2	24.2
TOTAL	19	27	27	28	28	28	29	29

TOTAL NUMBER OF OBS: 120 PCT FREQ NH <5/8: 75.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCO	TOTAL OBS
8.4	13.7	26.0	12.2	14.5	4.6	6.9	3.1	9.9	.8	131

PERIOD: (PRIMARY) 1880-1972
(OVEP-ALL) 1854-1972

AREA 0009 SUNDA STRAIT
5.6S 104.8E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.4	.1	.0	.0	.0	.0	.0	.0	.5	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.4	.1	.0	.0	.0	.0	.0	.0	.5	
1/2<1	PCP	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.5	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.5	
1<2	PCP	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.5	
	NO PCP	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	
	TOT %	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	1.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	PCP	1.0	1.0	.5	.0	.0	.8	.8	.0	.0	.0	4.1	
	NO PCP	1.0	3.3	5.2	6.0	2.0	2.9	.8	.1	.0	.0	21.3	
	TOT %	2.0	4.3	5.7	6.0	2.0	3.7	1.5	.1	.0	.0	25.4	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	1.3	4.8	18.1	27.5	8.6	4.7	1.4	1.0	.0	5.1	72.6	
	TOT %	1.3	4.8	18.1	27.5	8.6	4.7	1.4	1.0	.0	5.1	72.6	
	TOT OBS												197
	TOT PCT	3.8	9.1	24.2	33.9	11.4	8.4	2.9	1.1	.0	5.1	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.2	.1	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.2	.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	.0	.0	.1	.1	.0	.0	.0	.0		.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.3	.0	.0	.0	.3	.0	.0	.0	.0		.5	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.5	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.3	.0	.0	.0	.0	.0		.3	
	11-21	.0	.0	.0	.3	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.5	
5<10	0-3	.3	.9	.5	.1	.0	.0	.0	.0	.0	.0	1.8	
	4-10	.5	1.4	1.9	2.4	1.2	1.3	.4	.0	.0		9.1	
	11-21	.3	.0	.9	1.8	.4	.6	.4	.1	.0		4.4	
	22+	.0	.0	.0	.5	.0	.0	.0	.3	.0		.8	
	TOT %	1.0	2.3	3.3	4.9	1.6	1.9	.8	.3	.0	.0	16.1	
10+	0-3	.0	1.2	1.4	2.5	1.6	.9	.3	.1	.0	5.2	13.2	
	4-10	.9	3.8	9.3	17.1	9.7	2.9	1.4	1.0	.0		46.2	
	11-21	.3	.1	3.2	12.9	2.7	.6	.5	.3	.0		20.5	
	22+	.0	.0	1.1	1.2	.0	.0	.0	.0	.0		2.3	
	TOT %	1.2	5.2	15.1	33.8	14.0	4.4	2.1	1.4	.0	5.2	82.3	
	TOT OBS												385
	TOT PCT	2.5	7.5	18.6	39.4	15.9	6.3	2.9	1.8	.0	5.2	100.0	

PERIOD: (PRIMARY) 1880-1976
(OVER-ALL) 1854-1972

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	2.4	.0	.0	4.9	9.8	2.4	2.4	.0	.0	.0	22.0	78.0	41
06E09	.0	.0	.0	7.1	.0	7.1	.0	.0	.0	.0	14.3	85.7	28
12E15	.0	.0	3.6	3.6	10.7	7.1	.0	.0	.0	.0	25.0	75.0	28
18E21	.0	3.3	3.3	6.7	13.3	3.3	.0	.0	.0	.0	30.0	70.0	30
TOT	1	1	2	7	11	6	1	0	0	0	29	98	127
PCT	.8	.8	1.6	5.5	8.7	4.7	.8	.0	.0	.0	22.8	77.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	1.1	.0	.0	.0	17.4	81.5	92
06E09	.0	1.0	.0	1.0	16.0	82.0	100
12E15	.0	.0	1.3	.0	15.8	82.9	76
18E21	.0	.0	.8	.8	18.8	79.7	133
TOT	1	1	2	2	69	326	401
PCT	.2	.2	.5	.5	17.2	81.3	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	2.5	2.5	7.5	15.0	77.5	40
06E09	.0	.0	7.4	7.4	85.2	27
12E15	.0	3.8	7.7	19.2	73.1	26
18E21	.0	7.4	14.8	18.5	66.7	27
TOT	1	4	11	18	91	120
PCT	.8	3.3	9.2	15.0	75.8	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	1.3	.0	.0	.0	2	1.3
85/89	.0	.0	.0	.0	2.0	1.3	.0	.0	5	3.3
80/84	.0	.0	.0	1.3	6.7	35.3	25.3	1.3	175	70.0
75/79	.0	.0	.0	.0	1.3	2.0	16.0	5.3	37	24.7
70/74	.0	.0	.0	.0	.0	.0	.7	.0	1	.7
TOTAL	0	0	0	2	17	58	63	10	150	100.0
PCT	.0	.0	.0	1.3	11.3	38.7	42.0	6.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.5	.8	.0	.0	.0	.0
.7	.2	.5	1.3	.7	.0	.0	.0	.0	.0
2.3	8.2	20.7	25.3	4.2	3.7	1.0	1.3	.0	3.3
.7	1.3	4.0	7.7	4.2	2.5	2.2	.2	.0	2.0
.7	.0	.0	.0	.0	.0	.0	.0	.0	.0
4.3	9.7	25.2	34.3	9.5	7.0	3.2	1.5	.0	5.3

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	89	86	84	81	77	75	74	80.9	209
06E09	91	90	87	83	79	77	75	82.9	500
12E15	89	87	84	82	78	75	73	81.7	213
18E21	89	85	83	81	77	75	73	80.6	415
TOT	91	89	86	82	78	75	73	81.7	1337

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	4.8	35.7	47.6	11.9	83	42
06E09	.0	.0	29.7	37.8	32.4	.0	75	37
12E15	.0	4.9	4.9	46.3	34.1	9.8	79	41
18E21	.0	.0	4.9	29.3	58.5	7.3	82	41
TOT	0	2	17	60	70	12	80	161

PERIOD: (PRIMARY) 1880-1972
(OVER-ALL) 1954-1972

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TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
7/8	.0	.5	.0	.0	.0	1	.0	.5
5	.0	.0	.0	.0	.5	1	.5	.5
3	.0	.0	.0	1.6	.0	3	.0	1.6
2	.0	.5	3.8	.0	.0	8	.0	4.4
1	.0	1.1	3.8	.5	.0	10	.5	4.9
0	.5	1.1	16.5	.0	.0	33	.0	16.1
-1	.5	2.2	12.6	.0	.0	28	.5	14.8
-2	.0	3.8	15.9	.0	.0	36	.0	19.8
-3	.5	4.9	5.5	.0	.0	20	.0	11.0
-4	.5	6.0	2.2	.0	.0	16	.0	8.8
-5	.0	6.0	.5	.0	.0	12	.0	6.6
-6	.5	2.7	.5	.0	.0	7	.0	3.8
-7/-8	1.1	.5	.0	.0	.0	3	.0	1.6
-9/-10	1.6	.0	.0	.0	.0	3	.0	1.6
-11/-13	.5	.0	.0	.0	.0	1	.0	.5
TOTAL	11	54	112	4	1	182	2	180
PCT	6.0	29.7	61.5	2.2	.5	100.0	1.1	98.9

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

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

N

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

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.3	.3	.0	.0	.0	.0	.7
3-4	.0	1.4	.0	.0	.0	.0	1.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.7	.0	.0	.0	.0	2.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	1.4	.0	.0	.0	2.4
1-2	2.0	6.4	3.7	.0	.0	.0	12.2
3-4	.0	.0	5.1	.0	.0	.0	5.1
5-6	.0	.0	3.7	2.0	.0	.0	5.7
7	.0	.0	.0	2.7	.0	.0	2.7
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	1.0	.0	.0	1.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.0	7.4	13.9	5.7	.0	.0	29.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	1.7	9.8	2.0	.0	.0	.0	13.5
3-4	.0	3.0	8.8	.0	.0	.0	11.8
5-6	.0	1.4	4.4	3.4	.0	.0	9.1
7	.0	.0	1.4	1.4	.0	.0	2.7
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	14.5	16.6	5.1	.0	.0	37.8

PERIOD: (OVER-ALL) 1963-1972 JULY AREA 0003 SUNDA STRAIT

TABLE 18 (CONT) 5.6S 104.8E

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.4	.0	.0	.0	.0	1.4
1-2	.0	2.4	1.0	.0	.0	.0	3.4
3-4	.0	2.0	2.0	.0	.0	.0	4.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	2.7	1.4	.0	.0	.0	4.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.4	4.4	.0	.0	.0	12.8

SW

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

W

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

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	1.4	.0	.0	.0	.0	1.4	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	1.4	.0	.0	.0	1.4	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.4	1.4	.0	.0	.0	2.7	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	7.9	3.9	1.3	.0	.0	.0	13.2	
1-2	5.3	22.4	9.2	.0	.0	.0	36.8	
3-4	.0	5.6	17.1	.0	.0	.0	23.7	
5-6	.0	1.3	7.9	5.3	.0	.0	14.5	
7	.0	2.6	3.9	3.9	.0	.0	10.5	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	1.3	.0	.0	1.3	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								76
TOT PCT	13.2	36.8	39.5	10.5	.0	.0	100.0	

PERIOD: (OVER-ALL) 1950-1972 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.9	21.4	13.6	4.9	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	48	3
6-7	.0	.0	7.8	3.9	3.9	1.9	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	5
8-9	.0	1.0	.0	1.9	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	6
10-11	.0	.0	.0	1.0	1.9	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	8
12-13	.0	.0	1.0	1.0	1.0	1.9	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	8
>13	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
INDET	7.8	4.9	.0	1.0	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	2
TOTAL	13	28	23	14	18	5	1	3	0	0	0	0	0	0	0	0	0	0	0	103	4
PCT	12.6	27.2	22.3	13.6	15.5	4.9	1.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1886-1969
(OVER-ALL) 1856-1969

AREA 0003 SUNDA STRAIT
5.5S 104.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG W0 PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20.0		.0	80.0
NE	4.4	2.2	.0	.0	.0	.0	.0	6.6	1.1	.0	4.4	.0	2.2		.0	85.7
E	.0	3.3	2.2	.0	.0	.0	.0	5.5	1.7	.0	3.3	.0	3.3		.0	86.2
SE	1.8	2.4	1.2	.0	.0	.0	.0	5.4	.0	.6	.6	.0	.0		.0	93.4
S	9.2	.0	.0	.0	.0	.0	.0	9.2	.0	5.5	.0	.0	.0		.0	85.3
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.8	.0	.0	.0		.0	93.2
W	21.9	.0	.0	.0	.0	.0	.0	21.9	.0	9.4	.0	.0	.0		.0	68.8
NW	4.2	.0	.0	.0	.0	.0	.0	4.2	.0	4.2	.0	.0	.0		.0	91.7
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	3.2	1.8	1.4	.0	.0	.0	.0	6.5	.5	1.8	1.4	.0	1.4		.0	88.5
TOT OBS:	217															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00003	6.8	.0	4.5	.0	.0	.0	.0	11.4	.0	.0	2.3	.0	.0		.0	86.4
06009	.0	1.5	1.5	.0	.0	.0	.0	3.0	.0	.0	.0	.0	1.5		.0	95.5
12015	3.5	1.8	.0	.0	.0	.0	.0	5.3	1.8	3.5	3.5	.0	3.5		.0	82.5
18021	3.6	5.4	.0	.0	.0	.0	.0	8.9	.0	3.6	.0	.0	.0		.0	87.5
TOT PCT	3.1	2.2	1.3	.0	.0	.0	.0	6.7	.4	1.8	1.3	.0	1.3		.0	88.3
TOT OBS:	223															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.7	1.9	.4	.0	.0	.0		3.0	5.9	1.3	.0	3.0	6.9	3.7	2.8	2.9	1.0
NE	.7	4.0	1.4	.0	.0	.0		6.1	7.7	2.6	16.7	7.5	11.1	10.1	2.8	2.4	3.1
E	2.2	9.0	4.5	.5	.0	.0		16.1	9.0	17.3	12.5	20.8	16.3	14.5	13.9	11.7	14.5
SE	2.5	18.3	20.5	4.2	.1	.0		45.6	12.2	53.8	45.8	44.7	37.9	42.0	56.2	45.3	49.2
S	1.8	7.0	4.6	.5	.0	.0		13.9	9.8	12.6	8.3	8.6	12.4	14.4	12.5	19.6	18.4
SW	.5	3.8	1.1	.0	.0	.0		5.5	7.7	3.1	8.3	4.9	6.4	5.1	5.6	6.8	6.5
W	.3	1.6	.8	*	.0	.0		2.7	8.4	2.3	.0	3.7	2.4	2.3	2.8	3.6	1.3
NW	.7	2.1	.2	*	.0	.0		3.0	6.2	2.1	8.3	4.2	2.4	1.6	5.6	3.2	3.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.0							4.0	.0	4.7	.0	2.7	4.2	6.3	.0	4.5	2.6
TOT OBS	183	652	498	73	1	0	1367		9.9	192	12	335	167	205	18	245	193
TOT PCT	13.4	47.7	36.5	5.3	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.1	.9	.0	.0	.0		3.0	5.9	1.2	4.3	3.6	2.1
NE	3.0	3.1	.1	.0	.0		6.1	7.7	3.4	8.7	9.5	2.7
E	6.3	7.8	2.0	.0	.0		16.1	9.0	17.0	19.3	14.5	13.0
SE	10.0	23.0	11.7	.8	.1		45.6	12.2	53.3	42.4	42.9	47.0
S	4.8	7.2	1.8	.2	.0		13.9	9.8	12.5	9.9	14.2	19.1
SW	2.6	2.8	.1	.0	.0		5.5	7.7	3.4	5.4	5.2	6.7
W	1.3	1.4	.1	.0	.0		2.7	8.4	2.2	3.3	2.4	2.6
NW	1.9	1.1	*	.0	.0		3.0	6.2	2.5	3.6	1.9	3.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.0						4.0	.0	4.4	3.2	5.8	3.7
TOT OBS	492	644	216	14	1	1367		9.9	204	502	223	438
TOT PCT	36.0	47.1	15.8	1.0	.1		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1886-1969
(OVER-ALL) 1856-1969

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5.5S 104.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	4.4	9.8	42.6	37.3	5.9	.0	.0	10.0	100.0	204
06&09	3.2	12.5	49.6	29.7	5.0	.0	.0	9.5	100.0	502
12&15	5.8	6.3	45.3	36.3	6.3	.0	.0	10.2	100.0	223
18&21	3.7	7.3	49.1	34.7	5.0	.2	.0	10.1	100.0	438
TOT	54	129	652	458	73	1	0	9.9		1367
PCT	4.0	9.4	47.7	33.5	5.3	.1	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.0		.0
NE	2.2	1.1	1.1	.0		3.2
E	6.3	4.9	8.5	1.1		4.0
SE	14.8	15.7	15.9	1.1		3.5
S	5.8	4.7	5.2	.0		3.4
SW	2.7	1.1	3.3	1.1		4.2
W	.0	.0	.8	1.1		7.5
NW	.0	.0	.3	.0		7.0
VAR	.0	.0	.0	.0		.0
CALM	1.1	.0	.0	.0		2.0
TOT OBS	30	25	32	4	91	3.7
TOT PCT	33.0	27.5	35.2	4.4	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NE	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	3.3	
E	.0	.0	.0	1.1	2.2	.0	.0	.0	.0	.0	17.6	
SE	.0	.0	.0	3.3	.0	3.0	.0	.0	.0	.3	40.9	
S	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.8	13.5	
SW	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	7.1	
W	.0	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	
TOT OBS	0	0	0	4	3	6	1	0	0	1	76	91
TOT PCT	.0	.0	.0	4.4	3.3	6.6	1.1	.0	.0	1.1	83.5	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) • OR >10	• OR >5	• OR >2	• OR >1	• OR >1/2	• OR >1/4	• OR >0YD	• OR >0
• OR >6500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
• OR >5000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
• OR >3500	1.1	1.1	2.2	2.2	2.2	2.2	2.2	2.2
• OR >2000	3.3	4.3	8.7	8.7	8.7	8.7	8.7	8.7
• OR >1000	6.5	7.6	12.0	12.0	12.0	12.0	12.0	12.0
• OR >600	10.9	12.0	16.3	16.3	16.3	16.3	16.3	16.3
• OR >300	10.9	12.0	16.3	16.3	16.3	16.3	16.3	16.3
• OR >150	10.9	12.0	16.3	16.3	16.3	16.3	16.3	16.3
• OR > 0	10.9	12.0	16.3	16.3	16.3	16.3	16.3	16.3
TOTAL	10	11	15	15	15	15	15	15

TOTAL NUMBER OF OBS: 92 PCT FREQ NM <5/8: 83.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
11.0	21.0	25.0	13.0	12.0	7.0	3.0	6.0	2.0	.0	100

PERIOD: (PRIMARY) 1886-1969
(OVER-ALL) 1856-1969

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5.5S 104.8E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.5	
1<2	NO PCP	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.5	
	TOT %	.0	.2	.2	.5	.0	.0	.0	.0	.0	.0	.9	
	PCP	.0	.0	.0	.7	.2	.0	.8	.1	.0	.0	1.8	
2<5	NO PCP	.0	.0	.0	.9	.0	.9	.0	.0	.0	.9	1.8	
	TOT %	.0	.0	.0	1.6	.2	.5	.8	.1	.0	.5	3.7	
	PCP	.0	.5	.7	.9	.5	.0	.0	.0	.0	.0	2.3	
5<10	NO PCP	1.4	5.9	6.0	5.5	1.4	1.3	.9	.9	.0	.0	23.5	
	TOT %	1.4	6.1	6.7	6.7	1.8	1.3	.9	.9	.0	.0	25.8	
	PCP	.0	.5	.5	.0	.5	.0	.0	.0	.0	.0	1.4	
10+	NO PCP	.9	3.7	13.5	29.5	10.0	5.1	2.0	1.7	.0	1.4	67.7	
	TOT %	.9	4.1	13.9	29.5	10.5	5.1	2.0	1.7	.0	1.4	69.1	
	TOT OBS												217
	TOT PCT	2.3	10.5	20.9	38.2	12.6	6.8	3.7	2.8	.0	2.3	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.1	.1	.2	.0	.0	.0	.0	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.1	.2	.0	.0	.0	.0	.0	.0	.5	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
2<5	4-10	.0	.0	.2	.6	.1	.2	.4	.1	.0		1.6	
	11-21	.0	.2	.0	.9	.5	.0	.0	.0	.0		1.6	
	22+	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	TOT %	.0	.2	.2	1.7	.6	.2	.4	.1	.0	.2	3.7	
	0-3	.2	.2	.3	.1	.0	.2	.0	.0	.0	.0	1.1	
5<10	4-10	.5	2.4	3.1	2.4	1.4	.6	.1	.6	.0		11.0	
	11-21	.2	.6	1.5	3.0	.9	.0	.3	.1	.0		6.7	
	22+	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	TOT %	.9	3.2	4.9	5.7	2.3	.9	.5	.7	.0	.0	19.0	
	0-3	.8	.2	1.5	1.3	.9	.6	.6	.6	.0	2.3	8.7	
10+	4-10	.6	2.3	7.6	16.3	6.5	2.5	1.3	1.2	.0		38.3	
	11-21	.0	.8	2.5	17.4	6.2	1.4	.1	.0	.0		28.4	
	22+	.0	.0	.2	.9	.0	.0	.0	.0	.0		1.1	
	TOT %	1.4	3.3	11.9	35.9	13.6	4.5	2.0	1.8	.0	2.3	76.6	
	TOT OBS												436
	TOT PCT	2.3	6.8	17.1	43.6	16.5	5.6	2.9	2.5	.0	2.8	100.0	

PERIOD: (PRIMARY) 1880-1969
(OVER-ALL) 1856-1969

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5.3S 104.8E

TABLE 10

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

HOUR (GMT)	000 169	170 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00Z03	.0	.0	.0	.0	3.7	7.4	3.7	.0	.0	.0	14.8	85.2	27
06Z09	.0	.0	.0	.0	6.7	.0	.0	.0	.0	.0	6.7	93.3	30
12Z15	.0	.0	.0	14.3	0	9.5	.0	.0	.0	4.8	28.6	71.4	21
18Z21	.0	.0	.0	5.3	.0	10.5	.0	.0	.0	.0	15.8	84.2	19
TOT	0	0	0	4	3	6	1	0	0	1	15	82	97
PCT	.0	.0	.0	4.1	3.1	6.2	1.0	.0	.0	1.0	15.5	84.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00Z03	1.3	.0	.0	7.9	18.4	72.4	76
06Z09	.0	.0	.0	1.6	17.6	80.8	125
12Z15	.0	.0	1.0	4.0	19.0	76.0	100
18Z21	.0	.0	.7	2.8	22.5	73.9	142
TOT	1	0	2	16	87	337	443
PCT	.2	0	.5	3.6	19.6	76.1	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00Z03	.0	.0	12.0	4.0	84.0	25
06Z09	.0	.0	.0	7.1	92.9	28
12Z15	.0	.0	23.8	9.5	66.7	21
18Z21	.0	.0	5.6	11.1	83.3	18
TOT	0	0	9	7	76	92
PCT	.0	.0	9.8	7.6	82.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	2.3	2.3	.0	.0	6	4.7
80/84	.0	.0	.0	.0	6.3	32.8	25.8	2.3	86	67.2
75/79	.0	.0	.0	.0	.0	3.9	17.2	7.0	36	28.1
TOTAL	0	0	0	0	1	50	55	12	128	100.0
PCT	.0	.0	.0	.0	8.6	39.1	43.0	9.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	1.6	.0	.8	.6	1.0	.0	.8	.0	.0
	2.3	8.4	16.6	23.4	7.6	4.5	2.1	.6	.0	1.6
	.0	.0	2.7	17.8	3.5	2.5	1.6	.0	.0	.0
	2.3	10.0	19.3	42.0	11.7	8.0	3.7	1.4	.0	.6

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00Z03	88	84	84	80	77	74	73	80.3	198
06Z09	93	91	87	83	79	76	75	82.8	469
12Z15	85	84	83	81	79	77	76	81.1	217
18Z21	86	85	83	80	77	75	73	80.2	430
TOT	93	88	85	81	78	76	73	81.3	1314

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00Z03	.0	.0	7.1	28.6	60.7	3.6	81	28
06Z09	.0	.0	25.0	52.8	16.7	5.6	74	36
12Z15	.0	.0	3.1	34.4	50.0	12.5	82	32
18Z21	.0	.0	.0	37.1	48.6	14.3	82	35
TOT	0	0	12	51	56	12	80	131

PERIOD: (PRIMARY) 1886-1969
(OVER-ALL) 1856-1969

AREA 0003 SUNDA STRAIT
5.5S 104.8E

TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
6	.0	.5	.5	.5	.5	4	.0	2.2
5	.0	.0	.5	.0	.5	2	.0	1.1
4	.0	.0	.5	.0	.0	1	.0	.5
3	.0	.0	.5	.0	.0	1	.0	.5
2	.0	.0	3.8	1.1	.0	9	.0	4.9
1	.0	.0	7.6	.0	.0	14	.0	7.6
0	.5	3.8	15.1	1.1	.0	38	.0	20.5
-1	.0	3.2	15.7	.0	.0	35	.0	18.9
-2	.0	11.4	14.1	.0	.0	47	.0	25.4
-3	.0	3.8	1.6	.0	.0	10	.0	5.4
-4	.0	7.0	1.6	.5	.0	17	.0	9.2
-5	.0	2.2	.5	.0	.0	5	.0	2.7
-6	.0	1.1	.0	.0	.0	2	.0	1.1
TOTAL	1		115		2		0	185
		61		6		185		
PCT	.5	33.0	62.2	3.2	1.1	100.0		100.0

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

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

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.4	.0	.0	.0	.0	.4
3-4	.0	3.3	.0	.0	.0	.0	3.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.7	.0	.0	.0	.0	3.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	10.2	1.6	.0	.0	.0	11.9
3-4	.0	6.6	.0	.0	.0	.0	6.6
5-6	.0	1.2	.0	.0	.0	.8	1.2
7	.0	.0	1.6	.0	.0	.0	1.6
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	18.0	3.3	.0	.0	.0	21.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.6	1.6	.0	.0	.0	.0	3.3
1-2	.0	11.9	6.6	.0	.0	.0	18.4
3-4	.0	8.2	7.0	.0	.0	.0	15.2
5-6	.0	.4	7.0	.0	.0	.0	7.4
7	.0	.0	3.3	.0	.0	.0	3.3
8-9	.0	.0	1.6	.0	.0	.0	1.6
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	22.1	25.4	.0	.0	.0	49.2

PERIOD: (OVER-ALL) 1963-1969

AUGUST

TABLE 18 (CONT)

AREA 0003 SUNDA STRAIT
5.5S 104.8E

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	1.6	7.8	.0	.0	.0	.0	9.4
3-4	.0	1.6	4.5	.0	.0	.0	6.1
5-6	.0	.0	1.2	.0	.0	.0	1.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	9.4	5.7	.0	.0	.0	16.8

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	1.6	2.5	.0	.0	.0	.0	4.1
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	1.6	.0	.0	.0	1.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	2.5	1.6	.0	.0	.0	5.7

W

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

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	96.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.9	1.6	.0	.0	.0	.0	6.6	
1-2	3.3	32.8	8.2	.0	.0	.0	44.3	
3-4	.0	19.7	11.5	.0	.0	.0	31.1	
5-6	.0	1.6	9.8	.0	.0	.0	11.5	
7	.0	.0	4.9	.0	.0	.0	4.9	
8-9	.0	.0	1.6	.0	.0	.0	1.6	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.2	55.7	36.1	.0	.0	.0	100.0	61

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.5	20.2	12.4	13.5	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	48	3
6-7	.0	1.1	11.2	5.6	2.2	2.2	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	5
8-9	.0	.0	1.1	4.5	1.1	1.1	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	6
10-11	.0	.0	2.2	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	4
12-13	.0	.0	1.1	.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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDET	2.2	.0	2.2	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	2
TOTAL	6	19	27	23	7	3	4	0	0	0	0	0	0	0	0	0	0	0	0	89	4
PCT	6.7	21.3	30.3	25.8	7.9	3.4	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1882-1971
(OVER-ALL) 1854-1971

AREA 0003 SUNDA STRAIT
5.5S 104.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	5.9	.0	.0	.0	.0		.0	94.1
E	4.4	4.4	.0	.0	.0	.0	.0	8.9	.0	8.9	.0	.0	.0		.0	86.7
SE	3.3	.0	.0	.0	.0	.0	.0	3.3	5.0	1.7	.0	.0	1.7		.0	88.3
S	3.5	.0	.0	.0	.0	.0	.0	3.5	3.5	.0	.0	.0	6.1		.0	86.8
SW	5.4	.0	.0	.0	.0	.0	.0	5.4	.0	.0	5.4	.0	6.8		.0	82.4
W	.0	.0	.0	.0	.0	.0	.0	.0	30.8	.0	.0	.0	.0		.0	69.2
NW	.0	23.5	.0	.0	.0	.0	.0	23.5	23.5	.0	23.5	.0	.0		.0	29.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	3.1	1.2	.0	.0	.0	.0	.0	4.3	4.3	1.8	1.2	.0	2.5		.0	86.5
TOT OBS:	163															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00203	.0	.0	.0	.0	.0	.0	.0	.0	6.7	.0	.0	.0	4.4		.0	88.9
06209	2.3	.0	.0	.0	.0	.0	.0	2.3	6.8	.0	.0	.0	2.3		.0	88.6
12215	5.6	2.8	.0	.0	.0	.0	.0	8.3	2.8	2.8	.0	.0	.0		.0	86.1
18221	6.4	2.1	.0	.0	.0	.0	.0	8.5	.0	6.4	4.3	.0	2.1		.0	80.9
TOT PCT	3.5	1.2	.0	.0	.0	.0	.0	4.7	4.1	2.3	1.2	.0	2.3		.0	86.0
TOT OBS:	172															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.0	1.8	.2	*	.0	.0		3.0	5.5	2.8	5.0	2.5	7.5	3.9	8.3	2.5	.5
NE	.9	3.9	.8	.1	.0	.0		5.6	7.4	2.3	15.0	7.1	7.9	7.2	8.3	4.1	4.1
E	1.2	7.5	3.5	.6	*	.0		12.8	9.5	14.2	15.0	14.9	13.2	10.4	16.7	10.2	13.3
SE	1.9	17.5	21.8	3.9	.1	.0		45.3	12.4	53.7	45.0	42.3	39.3	37.2	50.0	46.0	53.1
S	1.1	9.2	6.4	.9	.0	.0		17.5	10.5	14.8	.0	15.4	17.1	25.1	8.3	18.7	16.4
SW	.8	3.9	1.1	.1	.0	.0		5.8	7.8	4.8	5.0	5.0	5.0	9.3	8.3	5.9	5.3
W	.7	2.1	1.0	.1	.0	.0		3.9	8.1	2.9	15.0	4.4	3.6	4.0	.0	3.3	4.3
NW	.8	.9	.4	.1	.1	.0		2.3	9.0	2.2	.0	3.0	3.6	.3	.0	3.1	1.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.8							3.8	.0	2.3	.0	3.5	2.9	2.8	.0	6.2	1.4
TOT OBS	154	590	445	74	3	0	1266		10.2	171	10	310	140	181	8	241	207
TOT PCT	12.2	46.6	35.2	5.8	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.2	.8	*	.0	.0		3.0	5.5	2.9	4.1	4.0	1.6
NE	2.9	2.3	.4	.0	.0		5.6	7.4	3.0	7.3	7.2	4.1
E	4.7	6.3	1.7	.1	.0		12.8	9.5	14.2	14.4	10.6	11.6
SE	9.0	23.9	11.5	.8	.0		45.3	12.4	53.2	41.3	37.6	49.3
S	5.0	9.2	3.3	*	.0		17.5	10.5	14.0	15.9	24.6	17.6
SW	2.8	2.7	.3	.0	.0		5.8	7.8	4.8	5.0	9.2	5.6
W	1.9	1.7	.3	.0	.0		3.9	8.1	3.6	4.1	3.9	3.8
NW	1.4	.5	.3	.1	.0		2.3	8.0	2.1	3.2	.3	2.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.8						3.8	.0	2.2	4.7	2.7	4.0
TOT OBS	428	600	225	13	0	1266		10.2	181	490	187	448
TOT PCT	33.8	47.4	17.8	1.0	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.2	7.7	46.4	36.5	6.6	.6	.0	10.7	100.0	181
06&09	4.7	12.0	47.1	31.8	4.2	.2	.0	9.3	100.0	450
12&15	2.7	8.0	43.9	37.4	8.0	.0	.0	10.8	100.0	127
18&21	4.0	5.1	47.3	37.1	6.3	.2	.0	10.6	100.0	448
TOT	48	106	590	445	74	3	0	10.2		1766
PCT	3.8	8.4	46.6	35.2	5.8	.2	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.0	.0	.0	.0		2.0
NE	2.6	1.3	2.6	.0		3.0
E	3.6	5.2	2.9	1.3		3.9
SE	9.1	7.8	16.8	5.2		4.8
S	5.2	3.6	9.1	1.3		4.4
SW	5.5	2.9	2.9	1.6		3.4
W	.0	.0	1.3	1.0		7.4
NW	.3	.0	1.3	1.3		6.4
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	1.3	.0		5.0
TOT OBS	21	16	31	9	77	4.4
TOT PCT	27.3	20.8	40.3	11.7	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
NE	.0	.0	.0	1.3	1.3	.0	.0	.0	.0	.0	3.9	
E	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	11.7	
SE	.0	.0	.0	1.3	4.2	2.6	.0	.0	1.3	2.6	28.9	
S	.0	.0	.0	.0	2.3	.0	.0	.0	.0	.0	16.9	
SW	.0	.0	.0	.0	1.6	.0	.0	.0	.0	.0	11.4	
W	.0	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	1.3	1.3	.0	.0	.0	.0	.0	.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	
TOT OBS	0	^	1	%	10	2	0	0	1	2	58	77
TOT PCT	.0	.0	1.3	3.9	13.0	2.6	.0	.0	1.3	2.6	75.3	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	2.6	3.8	3.8	3.8	3.8	3.8	3.8	3.8
* OR >5000	2.6	3.8	3.8	3.8	3.8	3.8	3.8	3.8
* OR >3500	3.8	5.1	5.1	5.1	5.1	5.1	5.1	5.1
* OR >2000	5.1	6.4	7.7	7.7	7.7	7.7	7.7	7.7
* OR >1000	15.4	19.2	20.5	20.5	20.5	20.5	20.5	20.5
* OR >600	19.2	23.1	24.4	24.4	24.4	24.4	24.4	24.4
* OR >300	19.2	24.4	25.6	25.6	25.6	25.6	25.6	25.6
* OR >150	19.2	24.4	25.6	25.6	25.6	25.6	25.6	25.6
* OR > 0	19.2	24.4	25.6	25.6	25.6	25.6	25.6	25.6
TOTAL	15	19	20	20	20	20	20	20

TOTAL NUMBER OF OBS: 78 PCT FREQ NH <5/8: 74.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
12.5	14.3	22.5	17.5	11.3	7.5	8.8	1.3	7.5	.0	80

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.6	.6	.0	.0	.0	.0	1.2	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.6	.6	.0	.0	.0	.0	1.2	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.6	.0	.0	.6	.0	.0	1.2	
	TOT %	.0	.0	.0	.0	.6	.0	.0	.6	.0	.0	1.2	
2<5	PCP	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.6	
	NO PCP	.0	.0	.6	.6	.0	.0	.0	.0	.0	.0	1.2	
	TOT %	.0	.0	.6	1.2	.0	.0	.0	.0	.0	.0	1.8	
5<10	PCP	.0	.0	.6	.6	.0	.0	.0	.0	.0	.0	1.2	
	NO PCP	3.4	3.1	4.8	4.6	2.5	2.9	.0	.3	.0	.0	22.1	
	TOT %	3.4	3.7	5.4	5.2	2.5	2.9	.0	.3	.0	.0	23.3	
10+	PCP	.0	.0	.6	.0	.0	.0	.0	.6	.0	.0	1.2	
	NO PCP	1.7	6.7	7.2	30.2	13.8	7.8	2.0	1.1	.0	.6	71.2	
	TOT %	1.7	6.7	7.8	30.2	13.8	7.8	2.0	1.7	.0	.6	72.4	
	TOT OBS												163
	TOT PCT	5.1	10.4	13.8	36.7	17.5	11.3	2.0	2.6	.0	.6	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	..	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	4-10	.0	.0	.0	.0	.3	.3	.0	.0	.0		.6	
	11-21	.0	.0	.0	.3	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	..	.1	.0	.3	.3	.3	.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	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
	4-10	.0	.0	.3	.6	.3	.0	.0	.0	.0		1.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.3	.6	.3	.0	.0	.3	.0	.0	1.4	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	
	4-10	.0	.0	.3	.3	.0	.0	.3	.0	.0		.8	
	11-21	.0	.0	.0	.3	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.3	.0	.0	.0	.0	.0		.3	
	TOT %	.0	.0	.3	.8	.0	.0	.3	.0	.0	.3	1.7	
5<10	0-3	.4	..	.3	.0	.0	.0	.0	.0	.0	.0	.8	
	4-10	1.4	1.6	1.1	2.3	.9	.5	.0	.1	.0		7.9	
	11-21	.0	.1	1.3	3.0	.7	.8	.0	.0	.0		5.9	
	22+	.0	.0	.2	.4	.2	.0	.0	.0	.0		.8	
	TOT %	1.8	1.8	2.9	5.6	1.8	1.3	.0	.1	.0	.0	15.5	
10+	0-3	.6	1.1	.0	1.7	.6	1.1	.6	.8	.0	1.1	7.6	
	4-10	.9	2.8	7.6	14.5	9.3	3.2	.7	.2	.0		39.3	
	11-21	.0	.6	1.7	20.7	5.8	1.3	.4	.4	.0		30.8	
	22+	.0	.0	.1	1.8	.3	.0	.0	.3	.0		2.5	
	TOT %	1.5	4.5	9.4	38.8	16.0	5.6	1.6	1.8	.0	1.1	80.2	
	TOT OBS												354
	TOT PCT	3.5	6.5	12.9	46.1	18.4	7.2	1.9	2.2	.0	1.4	100.0	

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	.0	7.4	22.2	3.7	.0	.0	.0	.0	33.3	66.7	27
06E09	.0	.0	.0	.0	11.1	5.6	.0	.0	.0	.0	16.7	83.3	18
12E15	.0	.0	.0	.0	5.9	.0	5.9	.0	.0	.0	11.8	88.2	17
18E21	.0	.0	5.6	5.6	5.6	.0	.0	.0	5.6	11.1	33.3	66.7	18
TOT	0	0	1	3	10	2	1	0	1	2	20	60	80
PCT	.0	.0	1.3	3.8	12.5	2.5	1.3	.0	1.3	2.5	25.0	75.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.0	.0	1.4	1.4	16.9	80.3	71
06E09	1.0	.0	1.0	2.0	15.2	80.8	99
12E15	1.5	.0	.0	1.5	19.4	77.6	67
18E21	1.6	.0	2.4	1.6	15.9	78.6	126
TOT	4	0	5	6	60	288	363
PCT	1.1	.0	1.4	1.7	16.5	79.3	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	.0	11.1	22.2	66.7	27
06E09	.0	.0	.0	17.6	82.4	17
12E15	.0	.0	.0	12.5	87.5	16
18E21	.0	5.6	16.7	22.2	61.1	18
TOT	0	1	6	15	57	78
PCT	.0	1.3	7.7	19.2	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
85/89	.0	.0	.0	.0	4.0	4.0	.0	.0	8	8.0
80/84	.0	.0	.0	.0	4.0	33.0	42.0	.0	79	79.0
75/79	.0	.0	.0	.0	.0	1.0	7.0	5.0	13	13.0
TOTAL	0	0	0	0	8	38	49	5	100	100.0
PCT	.0	.0	.0	.0	8.0	38.0	49.0	5.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	1.0	3.0	2.0	2.0	.0	.0	.0	.0
	5.8	11.0	7.0	28.3	11.5	10.0	1.8	2.8	.0	1.0
	.0	.0	4.0	5.0	2.0	1.0	.0	1.0	.0	.0
	5.8	11.0	12.0	36.3	15.5	13.0	1.8	3.8	.0	1.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	89	85	83	81	77	75	70	80.6	181
06E09	94	91	87	83	79	77	77	83.0	432
12E15	89	86	84	82	78	76	76	81.5	187
18E21	89	86	84	80	77	74	73	80.4	438
TOT	94	89	86	82	78	76	70	81.5	1238

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	.3	46.7	40.0	10.0	81	30
06E09	.0	.0	33.3	28.6	38.1	.0	74	21
12E15	.0	.0	.0	47.8	52.2	.0	80	23
18E21	.0	.0	.0	28.1	62.5	9.4	83	32
TOT	0	0	8	40	52	6	80	106

SEPTEMBER

PERIOD: (PRIMARY) 1882-1971
(OVER-ALL) 1854-1971

AREA 0003 SUNDA STRAIT
5.5S 104.8E

TABLE 17

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

AIR-SEA TMP DIF	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.7	1	.0	.7
7/8	.0	.7	.0	.0	.0	1	.0	.7
4	.0	.7	.0	1.4	.0	3	.0	2.1
3	.0	.7	.0	.0	.0	1	.0	.7
2	.0	1.4	2.1	.0	.0	5	.0	3.6
1	.0	2.1	2.9	.0	.0	7	.0	5.0
0	2.9	18.6	1.4	.0	.0	32	.0	22.9
-1	4.3	17.9	.0	.0	.0	31	.0	22.1
-2	9.3	12.1	.0	.0	.0	30	.7	20.7
-3	5.7	3.6	.7	.0	.0	14	.0	10.0
-4	5.7	2.1	.0	.0	.0	11	.0	7.9
-5	1.4	.0	.0	.0	.0	2	.0	1.4
-6	.7	.0	.0	.0	.0	1	.0	.7
-9/-10	.7	.0	.0	.0	.0	1	.0	.7
TOTAL	43	84	10	2	1	140	1	139
PCT	30.7	60.0	7.1	1.4	.7	100.0	.7	99.3

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

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

N

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

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.4	.0	.0	.0	.0	2.4
1-2	.0	2.4	2.4	.0	.0	.0	4.8
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.8	2.4	.0	.0	.0	7.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	12.5	.0	.0	.0	.0	12.5
3-4	.0	.0	2.4	.0	.0	.0	2.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	1.8	.0	.0	1.8
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	12.5	2.4	1.8	.0	.0	16.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.4	.0	.0	.0	.0	2.4
1-2	2.4	5.4	7.1	.0	.0	.0	14.9
3-4	.0	9.5	4.8	.0	.0	.0	14.3
5-6	.0	.0	4.8	.0	.0	.0	4.8
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	1.2	.0	.0	1.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.4	17.3	16.7	1.2	.0	.0	37.5

PERIOD: (OVER-ALL) 1963-1971

SEPTEMBER

AREA 0003 SUNDA STRAIT
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TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	4.2	.0	.0	.0	.0	4.2
1-2	.0	5.4	4.2	.0	.0	.0	9.5
3-4	.0	.0	2.4	.0	.0	.0	2.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	1.8	.0	.0	1.8
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	9.5	6.5	1.8	.0	.0	17.9

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.4	.6	.0	.0	.0	.0	3.0
1-2	.0	5.4	3.0	.0	.0	.0	8.3
3-4	.0	.0	2.4	.0	.0	.0	2.4
5-6	.0	.0	2.4	.0	.0	.0	2.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.4	6.0	7.7	.0	.0	.0	16.1

W

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

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.6	.0	.0	.0	.0	.6	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.6	.0	.0	.0	.0	.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	2.4	14.3	.0	.0	.0	.0	16.7	
1-2	2.4	31.0	16.7	.0	.0	.0	50.0	
3-4	.0	9.5	11.9	.0	.0	.0	21.4	
5-6	.0	.0	7.1	.0	.0	.0	7.1	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	4.8	.0	.0	4.8	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.8	54.8	35.7	4.8	.0	.0	100.0	42

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	10.4	28.4	14.9	4.5	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	2
6-7	.0	3.0	4.5	4.5	6.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	5
8-9	.0	.0	1.5	4.5	1.5	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	6
10-11	.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	3.0	3.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	2
TOTAL	9	23	16	9	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	37	3
PCT	13.4	34.3	23.9	13.4	7.5	7.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1879-1971
(OVER-ALL) 1854-1971

AREA 0003 SUNDA STRAIT
5.6S 104.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	4.8	.0	4.8	.0	.0	.0	.0	9.5	.0	.0	.0	.0	9.5		.0	81.0
NE	4.7	.0	.0	.0	.0	.0	.0	4.7	.0	18.6	.0	.0	18.6		.0	58.1
E	.0	.0	.0	.0	.0	.0	.0	.0	2.7	3.6	.0	.0	1.8		.0	92.0
SE	.0	.0	1.9	.0	.0	.0	.0	1.9	2.4	7.6	1.9	.0	1.9		.0	84.4
S	.0	1.5	.0	.0	.0	.0	.0	1.5	2.9	8.8	5.8	.0	4.4		.0	76.6
SW	6.7	10.0	.0	.0	.0	.0	.0	16.7	6.7	6.7	.0	.0	6.7		.0	63.3
W	8.2	16.3	.0	.0	.0	.0	.0	24.5	.0	.0	.0	.0	8.2		.0	67.3
NW	31.6	.0	5.3	.0	.0	.0	.0	36.8	.0	10.5	.0	.0	.0		.0	63.2
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	20.0		.0	80.0
TOT PCT	3.4	2.2	1.1	.0	.0	.0	.0	6.7	2.2	6.7	1.7	.0	5.1		.0	78.1
TOT OBS:	178															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00003	7.7	2.6	2.6	.0	.0	.0	.0	12.8	2.6	.0	2.6	.0	7.7		.0	74.4
06009	.0	1.8	.0	.0	.0	.0	.0	1.8	1.8	.0	.0	.0	3.5		.0	93.0
12015	4.2	.0	2.1	.0	.0	.0	.0	6.3	2.1	8.3	.0	.0	2.1		.0	81.3
18021	4.0	6.0	.0	.0	.0	.0	.0	10.0	4.0	18.0	4.0	.0	8.0		.0	58.0
TOT PCT	3.6	2.6	1.0	.0	.0	.0	.0	7.2	2.6	6.7	1.5	.0	5.2		.0	77.3
TOT OBS:	194															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.0	2.1	.2	.0	.0	.0		3.3	6.5	.9	.0	3.7	4.9	3.6	14.3	2.4	1.8
NE	1.4	2.8	.8	.0	.0	.0		4.8	6.2	2.7	25.0	5.4	7.3	5.3	.0	5.2	2.0
E	2.0	5.4	2.3	*	.0	.0		9.7	7.7	11.7	25.0	12.5	7.0	8.9	14.3	8.9	7.7
SE	1.6	14.7	17.7	2.7	.0	.0		35.7	11.8	41.1	.0	31.9	35.2	36.1	35.7	36.3	36.5
S	2.2	9.4	8.4	1.2	.0	.0		21.2	10.7	18.8	.0	17.3	23.6	24.4	7.1	23.1	21.9
SW	.8	3.5	1.9	.0	.0	.0		6.2	8.1	8.5	.0	9.3	7.0	7.1	14.3	9.1	7.4
W	.8	3.7	1.8	.3	.0	.0		6.5	9.2	7.0	12.5	7.0	6.1	4.8	.0	5.8	8.7
NW	.4	3.2	1.7	.1	.0	.0		5.4	9.3	5.8	37.5	6.2	4.6	3.1	14.3	5.0	6.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.2							5.2	.0	3.6	.0	6.4	4.3	4.8	.0	4.3	7.1
TOT OBS	192	589	428	48	0	0	1257		9.5	165	4	281	164	209	7	231	196
TOT PCT	15.3	46.9	34.0	3.8	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.8	1.4	.2	.0	.0		3.3	6.5	.9	4.2	5.9	2.1
NE	2.8	1.9	.0	.0	.0		4.8	6.2	3.3	6.1	5.1	3.7
E	4.9	4.1	.8	.0	.0		9.7	7.7	12.0	10.5	9.0	8.3
SE	7.1	20.1	8.2	.3	.0		35.7	11.8	40.1	33.1	36.1	36.4
S	5.9	11.5	3.6	.2	.0		21.2	10.7	18.3	19.7	23.8	22.5
SW	3.7	3.9	.6	.0	.0		8.2	8.1	8.3	8.5	7.3	8.3
W	3.0	2.5	.9	.1	.0		6.5	9.2	7.1	6.7	4.6	7.1
NW	2.0	2.9	.5	*	.0		5.4	9.3	6.5	5.6	3.5	5.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.2						5.2	.0	3.6	5.6	4.4	5.6
TOT OBS	496	608	185	8	0	1257		9.5	169	445	216	427
TOT PCT	36.3	48.4	14.7	.6	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
				WIND SPEED (KNOTS)						
00&03	3.6	9.5	45.6	38.5	3.0	.0	.0	10.0	100.0	169
06&09	5.6	10.6	46.5	34.6	2.7	.0	.0	9.2	100.0	445
12&15	4.6	12.5	43.5	36.1	3.2	.0	.0	9.6	100.0	216
18&21	5.6	8.7	49.4	30.7	5.6	.0	.0	9.5	100.0	427
TOT	65	127	589	428	48	3	3	9.5		1257
PCT	5.2	10.1	46.9	34.0	3.8	.0	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	2.4	.0		6.2
NE	1.2	.0	1.0	.0		2.9
E	6.5	4.6	5.0	3.4		4.3
SE	3.1	12.3	12.7	7.2		5.3
S	3.1	3.1	9.6	1.7		5.0
SW	1.4	.5	3.8	1.9		5.6
W	1.0	1.7	2.4	1.9		5.1
NW	.0	.0	3.4	1.0		7.0
VAR	.0	.0	.0	.0		.0
CALM	1.9	1.0	1.0	.0		3.2
TOT OBS	19	24	43	18	104	5.0
TOT PCT	18.3	23.1	41.3	17.3	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 499	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	1.6	.0	.0	.0	.0	.0	1.6	
NE	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	1.0	
E	.0	.0	.0	.0	1.7	.7	.0	.0	.0	.0	17.3	
SE	.0	.0	.0	7.0	3.1	1.2	1.0	.0	1.0	.0	22.1	
S	.0	.0	.0	2.4	.0	1.0	.0	.0	.0	1.0	13.2	
SW	.0	.0	.0	.2	.0	.0	1.0	.0	.0	.0	6.5	
W	.0	.0	.0	.0	.0	1.0	1.9	.0	.0	.0	4.1	
NW	.0	.0	.0	.0	1.4	.0	1.0	.0	.0	.0	1.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	
TOT OBS	0	0	0	10	9	4	5	0	1	1	74	104
TOT PCT	.0	.0	.0	9.6	8.7	3.8	4.8	.0	1.0	1.0	71.2	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) • OR >10	• OR >5	• OR >2	• OR >1	• OR >1/2	• OR >1/4	• OR >50YD	• OR >0
• OR >6500	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
• OR >5000	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
• OR >3500	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
• OR >2000	9.0	10.8	10.8	10.8	10.8	10.8	10.8	10.8
• OR >1000	16.2	18.9	19.8	19.8	19.8	19.8	19.8	19.8
• OR >600	23.4	27.9	29.7	29.7	29.7	29.7	29.7	29.7
• OR >300	23.4	27.9	29.7	29.7	29.7	29.7	29.7	29.7
• OR >150	23.4	27.9	29.7	29.7	29.7	29.7	29.7	29.7
• OR > 0	23.4	27.9	29.7	29.7	29.7	29.7	29.7	29.7
TOTAL	26	31	33	33	33	33	33	33

TOTAL NUMBER OF OBS: 111 PCT FREQ NH <5/8: 70.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
7.8	13.9	21.7	14.8	13.0	7.0	9.6	2.6	9.6 .0	115

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6	
	NO PCP	.6	1.1	.3	.3	.6	.6	.0	.0	.0	.6	3.9	
	TOT %	.6	1.1	.3	.3	.6	.6	.0	.6	.0	.6	4.5	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	1.1	
	NO PCP	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.6	
	TOT %	.0	.0	.0	.6	.0	.0	.0	1.1	.0	.0	1.7	
5<10	PCP	.3	.3	.0	.6	.3	.8	1.1	.0	.0	.0	3.4	
	NO PCP	2.2	1.4	3.4	7.2	6.6	1.1	.0	.0	.0	.0	21.9	
	TOT %	2.5	1.7	3.4	7.7	6.9	2.0	1.1	.0	.0	.0	25.5	
10+	PCP	.3	.0	.0	.0	.0	.6	.6	.3	.0	.0	1.7	
	NO PCP	2.5	3.9	12.1	21.1	11.8	5.3	5.2	3.4	.0	2.2	66.9	
	TOT %	2.8	3.2	12.1	21.1	11.8	5.9	5.8	3.7	.0	2.2	68.5	
	TOT OBS												178
	TOT PCT	5.9	6.0	15.7	29.6	19.2	8.4	6.9	5.3	.0	2.8	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	.1	.0	.0	.0	.0	.0		.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.3	
1<2	0-3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3	.5	
	4-10	.3	.3	.1	.1	.3	.3	.0	.0	.0		1.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.5	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.5	.1	.1	.3	.3	.0	.5	.0	.3	2.4	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.7	.1	.3	.1	.7	.0		1.8	
	11-21	.0	.0	.0	.0	.3	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.7	.4	.3	.1	.7	.0	.0	2.1	
5<10	0-3	.7	.1	.8	.7	.8	.3	.1	.0	.0	.3	3.7	
	4-10	.8	.9	1.1	1.9	5.4	.8	.1	.5	.0		11.6	
	11-21	.0	.0	.5	3.6	1.0	.2	.6	.0	.0		5.8	
	22+	.0	.0	.0	.5	.0	.0	.0	.0	.0		.5	
	TOT %	1.4	1.1	2.4	6.6	7.2	1.3	.9	.5	.0	.3	21.6	
10+	0-3	.5	1.8	1.6	1.1	1.7	.5	.5	.7	.0	4.7	13.2	
	4-10	1.4	2.2	6.1	11.1	7.0	3.8	3.2	2.2	.0		37.1	
	11-21	.1	.4	.9	11.7	5.9	1.6	.8	1.2	.0		22.6	
	22+	.0	.0	.0	.7	.1	.0	.0	.0	.0		.8	
	TOT %	2.1	4.4	8.7	24.6	14.7	5.8	4.5	4.1	.0	4.7	73.7	
	TOT OBS												380
	TOT PCT	3.8	6.0	11.3	32.2	22.6	7.6	5.5	5.8	.0	5.3	100.0	

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	.0	6.9	10.3	10.3	6.9	.0	.0	3.4	37.9	62.1	29
06E09	.0	.0	.0	10.8	5.4	2.7	2.7	.0	.0	.0	21.6	78.4	37
12E15	.0	.0	.0	10.3	10.3	.0	3.4	.0	.0	.0	24.1	75.9	29
18E21	.0	.0	.0	10.0	10.0	5.0	5.0	.0	5.0	.0	35.0	65.0	20
TOT	0	0	0	11	10	5	5	0	1	1	33	82	115
PCT	.0	.0	.0	9.6	8.7	4.3	4.3	.0	.9	.9	28.7	71.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.0	.0	5.5	1.4	24.7	68.5	73
06E09	.0	.9	1.8	1.8	15.5	80.0	110
12E15	.0	.0	1.3	2.5	17.7	78.5	79
18E21	.0	.0	2.2	2.2	31.3	64.2	134
TOT	0	1	10	8	91	286	396
PCT	.0	.3	2.5	2.0	23.0	72.2	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 <5GYD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	.0	7.1	32.1	60.7	28
06E09	.0	.0	11.1	11.1	77.8	36
12E15	.0	.0	14.3	10.7	75.0	28
18E21	.0	.0	10.5	26.3	63.2	19
TOT	0	0	12	21	78	111
PCT	.0	.0	10.8	18.9	70.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.8	1.6	6.3	.8	.0	12	9.4
80/84	.0	.0	.0	.0	5.5	28.3	40.2	8.7	105	82.7
75/79	.0	.0	.0	.0	.0	1.6	4.7	1.6	10	7.9
TOTAL	0	0	0	1	9	46	58	13	127	100.0
PCT	.0	.0	.0	.8	7.1	36.2	45.7	10.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	1.6	.4	1.2	1.8	2.6	1.2	.0	.0	.0	.8
	5.1	3.2	17.1	25.8	17.7	5.1	4.1	2.8	.0	1.6
	.0	.0	.0	.8	1.6	1.6	1.6	1.6	.0	.8
	6.7	3.7	18.3	28.3	21.9	7.9	5.7	4.3	.0	3.1

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	86	85	84	81	76	73	73	80.8	164
06E09	92	90	88	83	79	76	70	83.0	440
12E15	87	85	84	82	78	76	74	81.5	216
18E21	86	85	84	81	77	75	74	80.7	429
TOT	92	88	86	82	77	75	70	81.7	1249

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	.0	20.7	55.2	24.1	85	29
06E09	.0	2.6	15.4	46.2	33.3	2.6	77	39
12E15	.0	.0	8.3	38.9	41.7	11.1	80	36
18E21	.0	.0	2.6	36.8	57.9	2.6	82	38
TOT	0	1	10	52	66	13	80	142

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TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.6	1	.0	.6
7/8	.0	.0	.6	.0	1	.0	.6
4	.0	.0	.6	.6	2	.0	1.3
3	.0	.0	.6	1.9	4	.0	2.5
2	.0	.0	3.8	1.9	9	.0	5.7
1	.0	.6	3.2	.6	7	.6	3.8
0	.0	1.3	19.0	.6	33	.6	20.3
-1	.0	4.4	11.4	1.3	27	.6	16.5
-2	.0	5.7	13.9	.0	31	.0	19.6
-3	.0	3.8	7.0	.0	17	.0	10.8
-4	.0	4.4	3.8	.0	13	.0	8.2
-5	.6	2.5	2.5	.6	10	.0	6.3
-6	.6	.0	.6	.0	2	.0	1.3
-9/-10	.6	.0	.0	.0	1	.0	.6
TOTAL	3	36	106	13	158	3	155
PCT	1.9	22.8	67.1	8.2	100.0	1.9	98.1

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TABLE 18

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

N

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

NE

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

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.7	3.4	.0	.0	.0	.0	5.1
1-2	3.4	9.3	.0	.0	.0	.0	12.7
3-4	.0	3.4	3.4	.0	.0	.0	6.8
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	5.1	16.1	3.4	.0	.0	.0	24.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.1	3.4	.0	.0	.0	.0	5.5
1-2	.0	10.2	5.1	.0	.0	.0	15.3
3-4	.0	3.4	3.8	.0	.0	.0	7.2
5-6	.0	.0	5.9	.0	.0	.0	5.9
7	.0	.0	3.4	1.7	.0	.0	5.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.1	16.9	18.2	1.7	.0	.0	39.0

PERIOD: (OVER-ALL) 1963-1971

OCTOBER

AREA 0003 SUNDA STRAIT
5.0S 104.7E

TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	.0	.0	.0	.0	.0	1.3
1-2	.0	5.5	1.7	.0	.0	.0	7.2
3-4	.0	.0	6.4	.0	.0	.0	6.4
5-6	.0	.0	2.5	.0	.0	.0	2.5
7	.0	.0	3.4	.0	.0	.0	3.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	5.5	14.0	.0	.0	.0	20.8

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.1	.0	.0	.0	.0	2.1
1-2	.0	2.1	.0	.0	.0	.0	2.1
3-4	.0	1.7	.0	.0	.0	.0	1.7
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.9	.0	.0	.0	.0	5.9

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3
1-2	.0	3.4	.0	.0	.0	.0	3.4
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.7	.0	.0	.0	.0	4.7

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	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	11.3	9.7	.0	.0	.0	.0	21.0	
1-2	3.2	32.3	6.5	.0	.0	.0	41.9	
3-4	.0	8.1	12.9	.0	.0	.0	21.0	
5-6	.0	.0	8.1	.0	.0	.0	8.1	
7	.0	.0	6.5	1.6	.0	.0	8.1	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	14.5	50.0	33.9	1.6	.0	.0	100.0	62

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	9.6	30.9	12.8	2.1	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	54	2
6-7	.0	.0	6.4	4.3	7.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	5
8-9	.0	2.1	3.2	2.1	2.1	3.2	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	8.5	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	1
TOTAL	17	31	21	9	12	3	0	1	0	0	0	0	0	0	0	0	0	0	0	94	3
PCT	18.1	33.0	22.3	9.6	12.8	3.2	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1877-1971
(OVER-ALL) 1854-1971

AREA 0003 SUNDA STRAIT
5.6S 104.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	16.7	7.1	.0	.0	.0	.0		76.2
NE	.0	20.0	.0	.0	.0	.0	.0	20.0	6.7	6.7	.0	.0	.0	.0		66.7
E	8.0	20.0	.0	.0	.0	.0	.0	28.0	16.0	.0	.0	.0	.0	.0		56.0
SE	3.6	.0	.0	.0	.0	.0	.0	3.6	.9	1.8	.0	.0	.0	.0		95.5
S	4.6	.0	.0	.0	.0	.0	.0	4.6	1.7	15.5	.0	.0	.0	.0		80.5
SW	7.4	.0	.0	.0	.0	.0	.0	7.4	.7	5.1	.0	.0	.0	.0		88.2
W	20.8	4.2	.0	.0	.0	.0	.0	25.0	15.6	8.3	.0	.0	.0	.0		59.4
NW	7.5	15.1	.0	.0	.0	.0	.0	22.6	7.5	22.6	.0	.0	.0	.0		54.7
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	11.1	.0	.0	.0	.0		88.9
TOT PCT	7.0	2.9	.0	.0	.0	.0	.0	9.9	5.2	9.3	.0	.0	.0	.0		78.5
TOT OBS:	172															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00E03	6.1	3.0	.0	.0	.0	.0	.0	9.1	9.1	3.0	.0	.0	.0	.0		78.8
06E09	5.1	3.4	.0	.0	.0	.0	.0	8.5	3.4	.0	.0	.0	.0	.0		88.1
12E15	9.1	2.3	.0	.0	.0	.0	.0	11.4	4.5	18.2	.0	.0	.0	.0		70.5
18E21	5.3	2.3	.0	.0	.0	.0	.0	11.6	4.7	16.3	.0	.0	.0	.0		74.4
TOT PCT	6.1	2.5	.0	.0	.0	.0	.0	10.1	5.0	8.9	.0	.0	.0	.0		78.8
TOT OBS	172															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.0	2.7	.5	*	.0	.0		4.3	6.6	3.1	10.0	3.6	8.3	5.7	.0	4.1	2.8
NE	.4	2.0	.3	*	.0	.0		2.7	6.9	3.1	.0	3.4	4.4	2.7	.0	2.2	1.1
E	.9	4.2	1.7	.1	.0	.0		7.0	8.3	8.2	.0	7.8	4.0	5.3	3.3	9.4	5.6
SE	1.2	11.4	8.4	.2	.0	.0		21.3	10.2	23.7	20.0	21.4	20.6	23.2	20.0	17.5	21.9
S	2.3	10.5	5.1	.2	.0	.0		18.1	8.6	14.8	30.0	19.1	19.8	19.8	36.7	17.4	15.7
SW	2.1	8.7	4.5	.2	.0	.0		15.5	8.6	14.2	10.0	16.1	11.9	14.8	8.3	16.6	18.9
W	1.6	7.8	3.8	.4	.0	.0		13.6	9.3	11.1	10.0	15.2	15.9	11.0	21.7	13.4	14.0
NW	1.3	6.7	3.2	.8	.0	.0		12.0	9.7	15.5	20.0	9.4	10.3	11.3	3.3	14.7	12.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.5							5.5	.0	6.4	.0	4.1	4.8	6.1	6.7	4.6	8.4
TOT OBS	202	663	339	24	0	0	1228		8.5	147	5	320	126	179	15	218	178
TOT PCT	16.4	54.0	27.6	2.0	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.6	1.5	.2	.0	.0		4.3	6.6	3.3	4.9	5.3	3.5
NE	1.6	1.0	.1	.0	.0		2.7	6.9	3.0	3.7	2.4	1.7
E	3.3	3.0	.7	.0	.0		7.0	8.3	7.9	6.7	5.2	7.7
SE	5.9	12.2	3.2	.1	.0		21.3	10.2	23.6	21.2	22.9	19.5
S	7.1	9.7	1.4	.0	.0		18.1	8.6	15.2	19.3	21.1	16.7
SW	6.5	7.6	1.4	.0	.0		15.5	8.6	14.1	14.9	14.3	17.4
W	4.9	7.1	1.4	.2	.0		13.6	9.3	11.1	15.4	11.9	13.7
NW	4.6	5.5	1.9	.1	.0		12.0	9.7	13.6	9.6	10.7	13.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.5						5.5	.0	6.3	4.3	6.2	6.3
TOT OBS	516	583	125	4	0	1228		8.5	192	446	194	396
TOT PCT	42.0	47.5	10.2	.3	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1877-1971
(OVER-ALL) 1854-1971

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	6.3	14.1	54.2	24.0	1.6	.0	.0	8.0	100.0	192
06&09	4.3	13.0	55.4	26.5	.9	.0	.0	8.2	100.0	446
12&15	6.2	7.2	51.0	34.0	1.5	.0	.0	9.3	100.0	194
18&21	6.3	8.8	53.8	27.5	3.5	.0	.0	8.8	100.0	396
TOT	58	134	663	339	24	0	0	8.5		1228
PCT	5.5	10.9	54.0	27.6	2.0	.0	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	2.0	2.0		7.2
NE	.0	.0	.3	1.1		7.6
E	.0	1.1	.0	2.6		6.7
SE	.3	2.6	8.5	2.6		5.7
S	6.3	2.8	12.5	8.5		5.5
SW	4.8	4.8	8.5	2.8		4.6
W	.0	3.4	6.5	5.4		6.0
NW	.0	.0	2.6	4.5		7.2
VAR	.0	.0	.0	.0		.0
CALM	.0	1.1	.0	2.3		6.6
TOT OBS	10	14	36	28	88	5.7
TOT PCT	11.4	15.9	40.9	31.8	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	1.1	.9	.0	.0	.0	.0	.0	2.0	
NE	.0	.0	.0	.3	.9	.0	.0	.0	.0	.0	.3	
E	.0	.0	.0	.9	.6	.0	.0	.0	.0	.0	2.3	
SE	.0	.0	.0	.0	3.7	.6	.0	.0	.0	.0	9.7	
S	.0	.0	.0	2.3	4.0	4.0	.0	.0	.0	.0	19.9	
SW	.0	.0	.0	1.4	.9	1.1	.0	.0	.0	.0	17.6	
W	.0	.0	.0	.9	4.0	1.1	.0	.0	.0	.0	9.4	
NW	.0	.0	.0	1.1	1.1	.0	.0	.0	.0	.0	4.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	2.3	
TOT OBS	0	0	0	7	15	6	0	0	0	0	60	88
TOT PCT	.0	.0	.0	8.0	17.0	6.8	.0	.0	.0	.0	68.2	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) • OR >10	• OR >5	• OR >2	• OR >1	• OR >1/2	• OR >1/4	• OR >50YD	• OR >0
• OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
• OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
• OR >3500	.0	.0	.0	.0	.0	.0	.0	.0
• OR >2000	4.8	5.4	6.5	6.5	6.5	6.5	6.5	6.5
• OR >1000	15.1	20.4	23.7	23.7	23.7	23.7	23.7	23.7
• OR >600	18.3	26.9	32.3	32.3	32.3	32.3	32.3	32.3
• OR >300	18.3	26.9	32.3	32.3	32.3	32.3	32.3	32.3
• OR >150	18.3	26.9	32.3	32.3	32.3	32.3	32.3	32.3
• OR > 0	18.3	26.9	32.3	32.3	32.3	32.3	32.3	32.3
TOTAL	17	25	30	30	30	30	30	30

TOTAL NUMBER OF OBS: 93 PCT FREQ NH <5/8: 67.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
3.1	15.3	21.4	15.3	13.3	7.1	4.1	4.1	16.3	.0	98

PERIOD: (PRIMARY) 1877-1971
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.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	.6	1.2	.0	.0	.0	1.7	
	NO PCP	.0	.0	.0	.9	1.2	.3	.0	.0	.0	.0	2.3	
	TOT %	.0	.0	.0	.9	1.2	.9	1.2	.0	.0	.0	4.1	
5<10	PCP	.0	.4	1.0	.6	.3	.4	1.7	1.7	.0	.0	6.4	
	NO PCP	3.6	.7	.3	4.5	4.2	3.8	3.6	2.6	.0	1.7	25.0	
	TOT %	3.6	1.2	1.3	5.1	4.5	4.2	5.4	4.4	.0	1.7	31.4	
10+	PCP	.0	.0	.0	.0	.9	.3	.6	.0	.0	.0	[illegible]	
	NO PCP	2.5	1.0	2.3	10.2	18.8	14.4	6.8	3.3	.0	3.5	[illegible]	
	TOT %	2.5	1.0	2.3	10.2	19.6	14.7	7.4	3.3	.0	3.8	64.3	
	TOT OBS												172
	TOT PCT	6.1	2.2	3.6	16.1	25.3	19.8	14.0	7.7	.0	9.2	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	
1<2	0-3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	.6	
	4-10	.0	.1	.1	.0	.0	.0	.0	.0	.0		.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.1	.0	.3	.0	.0	.0	.0	.3	.9	
2<5	0-3	.0	.0	.0	.0	.4	.1	.3	.3	.0	.0	1.1	
	4-10	.0	.0	.0	.9	.3	.4	1.0	.6	.0		3.1	
	11-21	.0	.0	.0	.3	.3	.0	.1	.1	.0		.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	1.1	1.0	.6	1.4	1.0	.0	.0	5.1	
5<10	0-3	.6	.1	.0	.1	1.0	.6	.3	.1	.0	.9	3.7	
	4-10	1.1	.4	.3	2.1	1.3	1.1	2.5	2.3	.0		11.1	
	11-21	.4	.1	.4	1.6	.8	1.6	1.7	1.4	.0		8.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	2.2	.6	.6	3.9	3.1	3.2	4.5	3.9	.0	.9	22.9	
10+	0-3	1.0	.6	.7	1.3	1.7	1.9	.3	.6	.0	5.7	13.7	
	4-10	2.4	.9	1.2	8.3	12.7	7.6	5.9	4.9	.0		44.0	
	11-21	.0	.0	.6	3.4	3.1	3.5	1.6	.9	.0		13.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	3.4	1.5	2.5	13.0	17.6	13.0	7.9	6.4	.0	5.7	70.9	
	TOT OBS												350
	TOT PCT	5.6	2.2	3.3	18.1	21.9	16.8	13.8	11.2	.0	7.1	100.0	

PERIOD: (PRIMARY) 1877-1971
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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	4.0	16.0	4.0	.0	.0	.0	.0	24.0	76.0	25
06&09	.0	.0	.0	.0	23.1	7.7	.0	.0	.0	.0	30.8	69.2	26
12&15	.0	.0	.0	11.5	7.7	7.7	.0	.0	.0	.0	26.9	73.1	26
18&21	.0	.0	.0	20.0	20.0	5.0	.0	.0	.0	.0	45.0	55.0	20
TOT	0	0	0	8	16	6	0	0	0	0	30	67	97
PCT	.0	.0	.0	8.2	16.5	6.2	.0	.0	.0	.0	30.9	69.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	1.6	3.2	20.6	74.6	63
06&09	.0	.0	.0	3.8	21.7	74.5	106
12&15	.0	.0	1.3	9.3	20.0	69.3	75
18&21	.0	.9	.9	5.3	26.3	66.7	114
TOT	0	1	3	19	81	234	358
PCT	.0	.3	.8	5.3	22.6	70.9	100.0

TABLE 12

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

HOUR (GMT)	<150 <500YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	4.3	21.7	73.9	23
06&09	.0	.0	3.8	26.9	69.2	26
12&15	.0	.0	19.2	7.7	73.1	26
18&21	.0	.0	22.2	27.8	50.0	18
TOT	0	0	11	19	63	93
PCT	.0	.0	11.8	20.4	67.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	4.8	3.6	1.9	.0	11	10.5
80/84	.0	.0	.0	.0	3.8	32.4	38.1	3.8	82	78.1
75/79	.0	.0	.0	.0	.0	.0	3.8	7.6	12	11.4
TOTAL	0	0	0	0	4	38	46	12	105	100.0
PCT	.0	.0	.0	.0	8.6	36.2	43.8	11.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	1.7	4.0	1.9	1.0	1.0	.0	1.0
	3.6	.7	.5	10.7	22.4	18.8	10.2	6.4	.0	4.8
	.7	1.0	1.2	.0	1.0	1.4	3.8	1.4	.0	1.0
	4.3	1.7	1.7	12.4	27.4	22.1	15.0	8.8	.0	6.7

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	30%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	88	87	84	81	77	74	72	80.7	187
06&09	92	91	88	83	78	74	72	82.8	445
12&15	89	86	84	82	77	75	75	81.4	192
18&21	89	85	83	81	77	74	72	80.5	387
TOT	92	89	86	82	77	74	72	81.5	1211

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
00&03	.0	.0	4.0	40.0	32.0	24.0	83	25
06&09	.0	.0	17.1	34.3	40.0	8.6	78	35
12&15	.0	.0	3.8	42.3	53.8	.0	80	26
18&21	.0	.0	4.2	29.2	54.2	12.5	83	24
TOT	0	0	9	40	49	12	80	110

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PERIOD: (PRIMARY) 1877-1971
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TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	N FOG	NO FOG
6	.0	.0	.0	.6	.0	1	.0	.6
5	.0	.0	.6	.0	.0	1	.0	.6
4	.0	.0	.0	.6	.6	2	.0	1.3
3	.0	.0	.6	1.9	.6	5	.0	3.2
2	.0	.0	3.2	1.3	.0	7	.0	4.4
1	.0	.0	3.8	1.3	.0	8	.0	5.1
0	.0	2.5	18.4	1.3	.0	35	.0	22.2
-1	.0	2.5	10.1	1.9	.0	23	.0	14.6
-2	.0	5.1	10.8	.0	.0	25	.0	15.8
-3	.0	6.3	5.7	.0	.0	19	.0	12.0
-4	.0	6.3	5.1	.0	.0	18	.0	11.4
-5	.6	3.8	.6	.0	.0	8	.0	5.1
-6	.6	1.3	.0	.0	.0	3	.0	1.9
-7/-8	.0	1.9	.0	.0	.0	3	.0	1.9
TOTAL	2	47	93	14	2	158	0	158
PCT	1.3	29.7	58.9	9.9	1.3	100.0		100.0

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.2	.0	.0	.0	.0	2.2
1-2	.0	1.7	.0	.6	.0	.0	1.7
3-4	.0	.6	.0	.0	.0	.0	.6
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.9	.0	.0	.0	.0	3.9

NE

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

E

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

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.2	.6	.0	.0	.0	.0	2.8
1-2	.0	4.4	.0	.0	.0	.0	4.4
3-4	.0	.6	3.3	.0	.0	.0	3.9
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.2	5.6	3.3	.0	.0	.0	11.1

PERIOD: (OVER-ALL) 1963-1971 NOVEMBER AREA 0009 SUNDA STRAIT

TABLE 18 (CONT) 5.6S 104.7E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.2	1.7	.0	.0	.0	.0	3.9	.0	2.2	.0	.0	.0	.0	2.2
1-2	1.7	18.9	2.2	.0	.0	.0	22.8	.6	11.1	2.2	.0	.0	.0	13.9
3-4	.0	3.9	5.6	.0	.0	.0	9.4	.0	5.0	4.4	.0	.0	.0	9.4
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	.0	.0	.0	4.4
7	.0	.0	2.2	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.9	24.4	10.0	.0	.0	.0	38.3	.6	18.3	11.1	.0	.0	.0	30.0

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	2.2	.0	.0	.0	.0	.0	2.2	
1-2	.0	3.3	.0	.0	.0	.0	3.3	.0	4.4	.0	.0	.0	.0	4.4	
3-4	.0	6.1	.0	.0	.0	.0	6.1	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	9.4	.0	.0	.0	.0	9.4	2.2	4.4	.0	.0	.0	.0	6.7	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.5	6.5	.0	.0	.0	.0	13.0	
1-2	4.3	43.5	4.3	.0	.0	.0	52.2	
3-4	.0	15.2	13.0	.0	.0	.0	28.3	
5-6	.0	.0	4.3	.0	.0	.0	4.3	
7	.0	.0	2.2	.0	.0	.0	2.2	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								46
TOT PCT	10.9	65.2	23.9	.0	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1971 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	8.2	26.0	20.5	5.5	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	45	2
6-7	.0	5.5	5.5	1.4	2.7	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	4
8-9	.0	.0	2.7	5.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	4
10-11	.0	.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	3
12-13	.0	.0	1.4	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	4
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	4.1	.0	1.4	.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	3
TOTAL	9	23	25	10	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	73	3
PCT	12.3	31.5	34.2	13.7	6.8	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1879-1971
(OVER-ALL) 1854-1971

AREA 0003 SUNDA STRAIT
5.6S 104.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	7.5	7.5	.0	.0	.0	.0	.0	15.1	.0	5.7	7.5	.0	.0	.0	.0	71.7
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	30.8	.0	.0	.0	.0	.0	69.2
E	.0	.0	14.3	.0	.0	.0	.0	14.3	.0	.0	.0	.0	.0	.0	.0	85.7
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	16.0	.0	.0	.0	.0	.0	84.0
S	5.4	2.7	2.7	.0	.0	.0	.0	10.8	.0	10.8	5.4	.0	.0	.0	.0	73.0
SW	13.0	5.2	1.3	.0	.0	.0	.0	19.5	.6	13.0	.0	.0	.0	.0	.0	72.1
W	10.4	5.0	.0	.0	.0	.0	.0	15.4	9.0	4.5	.0	.0	.0	.0	.0	73.1
NW	2.6	7.0	.0	.0	.0	.0	.0	9.6	.9	7.0	.0	.0	.0	.0	.0	82.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	16.7	.0	.0	.0	.0	.0	.0	16.7	.0	.0	.0	.0	.0	.0	.0	83.3
TOT PCT	7.7	4.4	1.1	.0	.0	.0	.0	13.3	2.8	8.8	1.1	.0	.0	.0	.0	75.7
TOT OBS:	181															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00-03	10.8	2.7	.0	.0	.0	.0	.0	13.5	5.4	5.4	.0	.0	.0	.0	.0	78.4
06-09	6.3	2.1	.0	.0	.0	.0	.0	8.3	2.1	2.1	.0	.0	.0	.0	.0	89.6
12-15	3.9	7.8	.0	.0	.0	.0	.0	11.8	.0	11.8	.0	.0	.0	.0	.0	76.5
18-21	10.0	8.0	4.0	.0	.0	.0	.0	22.0	4.0	14.0	4.0	.0	.0	.0	.0	58.0
TOT PCT	7.5	5.4	1.1	.0	.0	.0	.0	14.0	2.7	8.6	1.1	.0	.0	.0	.0	75.3
TOT OBS:	186															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.2	3.7	1.1	*	.0	.0		6.1	7.0	4.9	.0	6.8	7.4	5.0	.0	6.2	6.7
NE	.7	1.8	.5	.1	.0	.0		3.0	6.9	2.8	.0	4.8	1.6	2.7	.0	2.7	2.5
E	.5	2.9	.2	.0	.0	.0		3.6	6.6	3.1	.0	5.0	3.2	2.3	20.0	2.8	4.5
SE	2.2	5.7	2.4	.2	.0	.0		10.5	7.7	12.2	14.3	8.3	11.6	11.9	.0	11.0	9.5
S	1.4	5.5	1.4	.1	.0	.0		8.3	6.9	8.8	28.6	6.3	5.5	11.3	.0	9.5	8.2
SW	2.2	9.0	3.5	.2	.0	.0		14.8	8.1	14.7	.0	14.3	16.1	17.4	30.0	15.8	10.8
W	2.5	13.9	6.1	1.0	.2	.0		23.8	9.5	25.3	57.1	21.8	24.5	22.7	40.0	23.9	24.3
NW	2.8	11.0	8.9	1.9	.2	.0		24.7	10.9	23.9	.0	24.5	26.8	22.6	10.0	24.6	28.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.0							5.0	.0	4.5	.0	8.3	3.2	4.1	.0	3.5	5.0
TOT OBS	232	669	301	44	5	0	1251		8.4	179	7	300	155	195	5	231	179
TOT PCT	18.5	53.5	24.1	3.5	.4	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.5	2.4	.2	.0	.0		6.1	7.0	4.7	7.0	4.9	6.4
NE	2.0	.8	.2	.0	.0		3.0	6.9	2.7	3.7	2.6	2.6
E	2.1	1.5	.1	.0	.0		3.6	6.6	3.0	4.4	2.8	3.5
SE	5.7	3.9	.9	.0	.0		10.5	7.7	12.2	9.5	11.6	10.4
S	5.2	2.7	.4	.0	.0		8.3	6.9	9.5	6.0	11.0	9.0
SW	6.8	7.0	1.0	*	.0		14.8	8.1	14.1	14.9	17.8	13.6
W	8.8	12.3	2.4	.3	.1		23.8	9.5	26.5	22.7	23.1	24.1
NW	7.9	11.3	5.1	.4	.0		24.7	10.9	23.0	23.2	22.3	26.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.0						5.0	.0	4.3	6.6	4.0	4.1
TOT OBS	587	524	129	10	1	1251		8.4	186	495	200	410
TOT PCT	46.9	41.9	10.3	.8	.1		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1879-1971
(OVER-ALL) 1854-1971

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	4.3	14.5	50.0	28.0	3.2	.0	.0	8.5	100.0	186
06&09	6.6	14.7	51.9	23.3	2.9	.7	.0	8.2	100.0	455
12&15	4.0	16.5	55.5	20.5	3.5	.0	.0	7.7	100.0	200
18&21	4.1	10.2	55.9	24.9	4.4	.5	.0	9.0	100.0	410
TOT	63	189	669	301	44	5	0	8.4		1251
PCT	5.0	13.5	53.5	24.1	3.5	.4	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	2.2	1.9		6.9
NE	1.1	1.1	2.2	.3		4.4
E	.0	1.1	1.1	1.1		6.0
SE	2.2	3.6	4.7	1.1		4.3
S	2.2	2.8	6.1	1.7		4.9
SW	.0	1.4	8.6	7.2		6.7
W	1.1	1.1	15.0	8.9		6.7
NW	.0	2.2	6.7	5.6		6.5
VAR	.0	.0	.0	.0		.0
CALM	.0	1.1	2.2	2.2		6.0
TOT OBS	6	13	44	27	90	6.0
TOT PCT	6.7	14.4	48.9	30.0	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.8	2.2	.0	.0	.0	.0	.0	1.1	
NE	.0	.0	.0	.3	1.1	.0	.0	.0	.0	.0	3.3	
E	.0	.0	.0	1.1	1.1	.0	.0	.0	.0	.0	1.1	
SE	.0	.0	.0	1.1	2.2	.0	.0	.0	.0	.0	8.3	
S	.0	.0	.0	1.1	1.1	.8	.0	.0	.0	.0	9.7	
SW	.0	.0	.0	2.2	3.6	1.4	1.1	.0	.0	.0	8.9	
W	.0	.0	.0	4.2	6.1	.8	1.7	.0	.0	.0	13.3	
NW	.0	.0	2.2	.3	.3	2.5	.6	.0	.0	.0	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	5.6	
TOT OBS	0	0	2	10	16	5	3	0	0	0	54	90
TOT PCT	.0	.0	2.2	11.1	17.8	5.6	3.3	.0	.0	.0	60.0	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	1.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3
* OR >2000	3.3	8.9	8.9	8.9	8.9	8.9	8.9	8.9
* OR >1000	17.8	26.7	26.7	26.7	26.7	26.7	26.7	26.7
* OR >600	27.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8
* OR >300	30.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
* OR >150	30.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
* OR > 0	30.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
TOTAL	27	36	36	36	36	36	36	36

TOTAL NUMBER OF OBS: 90

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
1.9	7.7	22.1	17.3	11.5	8.7	14.4	6.7	9.6	.0	104

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	
	TOT %	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.6	.0	.0	.0	1.1	1.9	3.7	1.0	.0	.0	8.3	
5<10	NO PCP	2.6	.7	.0	1.1	1.9	4.7	9.9	7.2	.0	.0	28.2	
	TOT %	3.2	.7	.0	1.1	3.0	6.6	13.7	8.1	.0	.0	36.5	
	PCP	.6	.0	.6	.0	.0	2.2	.6	.6	.0	.6	5.0	
10+	NO PCP	3.0	2.9	3.3	5.8	7.2	12.4	13.5	7.0	.0	2.8	58.0	
	TOT %	3.6	2.9	3.9	5.8	7.2	14.6	14.1	7.6	.0	3.3	63.0	
	TOT OBS												181
	TOT PCT	7.3	3.6	3.9	6.9	10.2	21.3	27.8	15.7	.0	3.3	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.3	.0	.0	.0	.0	.0	.0	.3	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.0	.0	.0	.0	.0	.0	.3	.0	.0	.5	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.3	.0	.0	.1	.1	.0	.0	.0	.0		.5	
	11-21	.0	.0	.0	.0	.0	.0	.3	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.0	.0	.1	.1	.0	.3	.0	.0	.0	.8	
	0-3	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
2<5	4-10	.0	.0	.0	.0	.0	.0	.0	.5	.0		.5	
	11-21	.0	.0	.0	.0	.0	.0	.4	.9	.0		1.3	
	22+	.0	.0	.0	.0	.0	.1	.3	.1	.0		.5	
	TOT %	.0	.0	.0	.0	.0	.1	.9	1.5	.0	.0	2.5	
	0-3	.3	.0	.0	.3	.1	1.1	.6	.4	.0	.0	2.8	
5<10	4-10	1.2	.6	.3	1.0	1.5	1.9	5.4	4.4	.0		16.2	
	11-21	.3	.0	.0	.0	.3	.9	1.8	2.7	.0		5.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	1.7	.6	.3	1.3	1.9	3.9	7.8	7.4	.0	.0	24.9	
	0-3	.9	.6	.3	.4	1.1	1.3	1.5	1.3	.0	4.8	12.2	
10+	4-10	2.0	1.2	3.2	3.5	4.7	10.0	10.9	6.7	.0		42.1	
	11-21	.9	.4	.0	1.3	.9	3.7	5.4	4.1	.0		16.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.3	.0		.3	
	TOT %	3.7	2.3	3.4	5.2	6.7	15.0	17.8	12.4	.0	4.8	71.3	
	TOT OBS												394
	TOT PCT	6.0	2.9	3.7	6.6	8.8	19.0	26.7	21.6	.0	4.8	100.0	

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	4.3	13.0	13.0	8.7	.0	.0	.0	.0	39.1	60.9	23
06E09	.0	.0	3.7	7.4	14.8	.0	3.7	.0	.0	.0	29.6	70.4	27
12E15	.0	.0	.0	7.4	18.5	7.4	.0	.0	.0	.0	33.3	66.7	27
18E21	.0	.0	.0	13.6	18.2	4.5	9.1	.0	.0	.0	45.5	54.5	22
TOT	0	0	2	10	16	5	3	0	0	0	36	63	99
PCT	.0	.0	2.0	10.1	16.2	5.1	3.0	.0	.0	.0	36.4	63.6	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
00E03	.0	.0	.0	1.4	30.0	68.6	70
06E09	.0	.0	.8	2.5	16.4	80.3	122
12E15	.0	.0	1.2	2.4	27.1	69.4	85
18E21	.0	1.6	.8	3.3	31.1	63.1	122
TOT	0	2	3	10	102	282	399
PCT	.0	.5	.8	2.5	25.6	70.7	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	4.8	19.0	23.8	57.1	21
06E09	.0	4.5	13.6	22.7	63.6	22
12E15	.0	.0	7.7	26.9	65.4	26
18E21	.0	.0	14.3	33.3	52.4	21
TOT	0	2	12	24	54	90
PCT	.0	2.2	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
85/89	.0	.0	.0	.0	.8	6.4	.0	.0	9	7.2
80/84	.0	.0	.0	.0	3.2	28.0	43.2	7.2	102	81.6
75/79	.0	.0	.0	.0	.0	.8	4.8	5.6	14	11.2
TOTAL	0	0	0	0	5	44	60	16	125	100.0
PCT	.0	.0	.0	.0	4.0	35.2	48.0	12.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	1.6	.0	.8	.8	.0	.8	1.4	1.8	.0	.0
80/84	6.8	3.4	1.6	6.8	11.6	17.0	17.2	14.0	.0	3.2
75/79	.8	.8	.8	.0	1.0	3.2	3.2	.6	.0	.8
TOTAL	9.2	4.2	3.2	7.6	12.6	21.0	21.8	16.4	.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
00E03	88	86	83	81	77	75	75	80.6	182
06E09	94	90	87	82	79	75	73	82.7	437
12E15	90	87	85	82	78	77	71	81.5	200
18E21	87	85	83	80	76	75	72	80.2	412
TOT	94	89	86	81	77	75	71	81.4	1231

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	.0	28.0	52.0	20.0	83	25
06E09	.0	.0	14.3	45.7	37.1	2.9	77	35
12E15	.0	.0	.0	35.3	52.9	11.8	82	34
18E21	.0	.0	.0	27.8	55.6	16.7	83	36
TOT	0	0	5	45	64	16	81	130

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TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
11/13	.0	.0	.6	.0	.0	1	.0	.6
7/8	.0	.0	.6	.0	.6	2	.0	1.3
4	.0	.0	1.9	.0	.0	3	.0	1.9
3	.0	.0	.0	.6	.6	2	.0	1.3
2	.0	.0	3.2	3.2	.0	10	.0	6.4
1	.0	.0	4.5	.6	.0	8	.0	5.1
0	.0	1.9	15.3	.0	.0	27	.6	16.6
-1	.0	1.3	16.6	1.9	.0	31	.0	19.7
-2	.0	3.2	14.0	.6	.0	28	.6	17.2
-3	.0	8.3	3.2	.0	.0	18	.0	11.5
-4	.0	3.8	1.3	.0	.0	5	.0	5.1
-5	.6	3.2	1.3	.0	.0	8	.0	5.1
-6	.6	4.5	.0	.0	.0	8	.0	5.1
-7/-8	.0	.6	.6	.0	.0	2	.0	1.3
-9/-10	.6	.0	.0	.0	.0	1	.0	.6
TOTAL	3	42	99	11	2	157	2	155
PCT	1.9	26.8	63.1	7.0	1.3	100.0	1.3	98.7

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	1.7	1.7	1.7	.0	.0	.0	5.2
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	1.7	1.7	.0	.0	.0	5.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.7	.0	.0	.0	.0	.0	1.7
1-2	.0	1.7	.0	.0	.0	.0	1.7
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	1.7	.0	.0	.0	.0	3.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.7	.0	.0	.0	.0	1.7
1-2	.0	1.7	.0	.0	.0	.0	1.7
3-4	.0	1.7	.0	.0	.0	.0	1.7
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.2	.0	.0	.0	.0	5.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.7	.0	.0	.0	.0	1.7
1-2	.0	8.6	3.9	.0	.0	.0	12.5
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	10.3	3.9	.0	.0	.0	14.2

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TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.7	1.7	.0	.0	.0	.0	3.4
1-2	1.7	6.0	1.3	.0	.0	.0	9.1
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.4	7.8	1.3	.0	.0	.0	12.5

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	13.4	.0	.0	.0	.0	13.4
3-4	.0	1.7	1.7	.0	.0	.0	3.4
5-6	.0	.0	3.4	.0	.0	.0	3.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	15.1	5.2	.0	.0	.0	20.3

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.7	.0	.0	.0	.0	1.7
1-2	1.3	7.3	1.3	.0	.0	.0	9.9
3-4	.0	4.7	5.2	.0	.0	.0	9.9
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	1.3	.0	.0	.0	.0	1.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	15.1	6.5	.0	.0	.0	22.8

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.7	.0	.0	.0	.0	.0	1.7	
1-2	3.9	2.6	2.2	.0	.0	.0	8.6	
3-4	.0	.4	.0	.0	.0	.0	.4	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.4	.0	.0	.0	.0	.4	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.6	3.4	2.2	.0	.0	.0	11.2	94.8

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	6.9	.0	.0	.0	.0	17.2	
1-2	6.6	43.1	10.3	.0	.0	.0	62.1	
3-4	.0	8.6	6.9	.0	.0	.0	15.5	
5-6	.0	.0	3.4	.0	.0	.0	3.4	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	1.7	.0	.0	.0	.0	1.7	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	19.0	60.3	20.7	.0	.0	.0	100.0	58

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TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	6.0	30.1	16.9	2.4	2.4	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	49	3
6-7	.0	2.4	7.2	4.8	1.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	4
8-9	.0	1.2	4.8	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	4
10-11	.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	2
12-13	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	3.6	4.8	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	2
TOTAL	8	35	28	6	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	83	3
PCT	9.6	42.2	33.7	7.2	4.8	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	4.3	2.8	2.0	.0	.0	.0	.0	8.8	3.5	4.8	1.8	.0	3.6	.0	.0	78.7
NE	1.4	3.7	.C	.0	.0	.0	.0	5.1	3.2	7.8	.8	.0	1.7	.0	.0	81.6
E	1.4	2.9	2.3	.0	.0	.0	.0	6.6	2.1	5.6	.5	.0	.7	.0	.0	85.0
SE	3.8	.6	1.3	.0	.0	.0	.0	5.7	2.6	9.0	.5	.0	.9	.0	.0	82.5
S	4.7	2.0	.2	.0	.0	.0	.0	7.0	1.9	3.1	1.5	.0	1.2	.0	.0	83.6
SW	6.5	3.6	1.2	.0	.0	.0	.0	10.8	2.0	5.5	.5	.0	1.4	.0	.0	80.4
W	8.3	6.4	2.7	.0	.0	.0	.0	17.3	10.7	5.0	.2	.0	.7	.0	.0	67.5
NW	8.5	4.5	1.0	.0	.0	.0	.0	13.9	4.5	4.3	2.1	.0	.0	.0	.0	74.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.8	2.2	1.7	.0	.0	.0	.0	6.7	2.1	6.5	.0	.0	2.9	.0	.0	82.3
TOT PCT	5.0	3.1	.8	.0	.0	.0	.0	8.8	2.9	6.3	.8	.0	1.2	.0	.0	81.0
TOT OBS:	2205															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03	6.5	3.5	1.6	.0	.0	.0	.0	11.4	4.3	2.6	.6	.0	1.0	.0	.0	80.5
06&09	2.8	2.1	.6	.0	.0	.0	.0	5.5	1.7	.2	.3	.0	.9	.0	.0	91.6
12&15	3.6	2.4	.3	.0	.0	.0	.0	6.3	2.2	9.3	1.1	.C	1.5	.0	.0	80.4
18&21	8.1	4.9	.8	.0	.0	.0	.0	13.7	3.0	12.9	1.7	.0	1.3	.0	.0	69.9
TOT PCT	5.2	3.2	.9	.0	.0	.0	.0	9.2	2.8	6.3	.9	.0	1.2	.0	.0	80.6
TOT OBS:	2390															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.2	3.3	.8	.1	*	.0		5.4	6.6	5.1	4.9	5.4	7.2	5.5	7.0	5.2	4.4
NE	1.1	3.9	.8	*	.0	.0		5.9	6.8	4.7	9.5	7.3	7.5	6.9	6.6	4.2	4.0
E	1.7	6.5	2.3	.3	*	.0		10.8	7.6	12.4	14.1	12.7	9.2	9.9	9.3	9.2	10.2
SE	2.2	12.0	9.1	1.3	*	.0		24.6	9.2	28.0	21.7	22.9	22.7	24.5	23.8	24.3	25.9
S	1.7	6.6	3.2	.3	.0	.0		11.7	8.0	11.0	10.6	9.2	11.9	13.4	15.2	13.6	12.4
SW	1.6	5.9	2.0	.1	.0	.0		9.7	7.6	8.3	8.4	9.1	9.2	10.8	9.1	10.7	10.0
W	1.4	7.0	3.1	.6	*	.0		12.1	8.7	11.0	20.5	12.1	13.6	11.9	12.8	12.2	12.1
NW	1.4	6.8	4.0	.9	.1	*		13.2	9.1	14.7	9.2	13.9	13.4	10.3	11.2	12.8	14.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.6							4.6	.0	4.8	1.0	7.4	5.3	6.8	5.1	7.7	6.8
TOT OBS							15195		8.4	2184	89	3741	1782	2277	101	2728	2293
TOT PCT	19.1	52.0	25.2	3.5	.1	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.2	1.9	.2	*	*		5.4	6.6	5.0	6.0	5.5	4.9
NE	3.4	2.3	.2	.0	.0		5.9	6.8	4.9	7.4	6.9	4.1
E	5.1	4.8	.9	*	.0		10.8	7.6	12.5	11.5	9.8	9.7
SE	7.6	12.5	4.3	.2	*		24.6	9.2	27.8	22.8	24.5	25.1
S	5.1	5.4	1.2	*	.0		11.7	8.0	11.0	10.1	13.5	13.0
SW	4.8	4.2	.6	*	.0		9.7	7.6	8.3	9.1	10.8	10.4
W	4.8	5.9	1.3	.1	*		12.1	8.7	11.3	12.5	12.1	12.2
NW	4.8	6.1	2.0	.2	*		13.2	9.1	14.5	13.7	10.3	13.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	6.6						6.6	.0	4.6	6.7	6.7	7.3
TOT OBS						15195		8.4	2273	5523	2378	5021
TOT PCT	45.4	43.1	10.7	.6	.1		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	4.6	13.0	51.7	26.7	3.7	.2	.0	8.7	100.0	2273
06&09	6.7	14.0	51.7	24.3	3.1	.1	*	8.2	100.0	5523
12&15	6.7	12.3	51.6	26.0	3.4	.0	.0	8.5	100.0	2378
18&21	7.3	10.5	52.8	25.2	3.9	.2	.0	8.6	100.0	5021
TOT								8.4		15195
PCT	6.6	12.5	52.0	25.2	3.5	.1	*		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.5	.8	2.2	1.3		4.8
NE	1.5	1.3	1.9	1.0		4.7
E	3.1	3.9	4.1	1.7		4.8
SE	5.7	6.5	8.6	2.8		4.6
S	3.3	2.6	5.6	1.6		4.5
SW	2.2	2.2	5.3	2.5		5.2
W	.8	1.4	6.0	4.0		6.3
NW	.2	1.2	4.4	4.4		6.4
VAR	.0	.0	.0	.0		.0
CALM	1.1	1.2	2.1	1.2		4.7
TOT OBS					1105	5.0
TOT PCT	18.4	21.1	40.1	20.4	100.0	

TABLE 6

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

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.0	.4	1.0	.3	.2	.1	.0	.0	2.8	
.0	.0	.0	.2	.8	.4	.2	.0	.0	.0	4.2	
.1	.0	.1	.7	.8	.9	.2	.0	.0	.0	10.1	
*	.0	.0	1.4	2.2	.9	.3	.0	.2	.2	18.3	
.0	.1	.1	.7	1.0	.C	.2	.0	.1	.1	10.2	
.0	.0	.2	.7	1.6	.8	.3	.0	.0	.0	8.4	
.1	.0	.3	1.2	2.3	1.5	.5	.0	.0	.0	6.4	
.0	.0	.3	1.0	1.8	.9	.4	.0	.0	.0	5.7	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.1	.2	.8	.3	.0	.0	.0	.0	4.2	
.1	.1	1.0	6.5	12.2	6.6	2.1	.1	.3	.4	70.3	1105

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >0.0VD	* OR >0
* OR >6500	.6	.7	.7	.7	.7	.7	.7	.7
* OR >5000	.6	.8	.8	.8	.8	.8	.8	.8
* OR >3500	2.2	2.9	3.1	3.1	3.1	3.1	3.1	3.1
* OR >2000	6.8	8.8	9.7	9.8	9.8	9.8	9.8	9.8
* OR >1000	15.6	20.3	21.8	21.9	22.0	22.0	22.0	22.0
* OR >600	20.5	26.5	28.5	28.5	28.6	28.6	28.7	28.7
* OR >300	21.2	27.5	29.5	29.5	29.6	29.6	29.7	29.7
* OR >150	21.2	27.5	29.5	29.6	29.7	29.7	29.8	29.8
* OR > 0	21.2	27.5	29.5	29.6	29.7	29.7	29.9	29.9

TOTAL NUMBER OF OBS: 1146

PCT FREQ NH <5/8: 70.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
5.1	14.4	22.4	16.4	11.4	7.3	8.0	5.1	9.8	.1	1242

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	*	*	.1	.1	.1	.0	.0	*	.3	
	NO PCP	*	.0	*	.0	.0	.0	.0	*	.0	.0	.1	
	TOT %	*	.0	.1	*	.1	.1	.1	*	.0	*	.4	
1/2<1	PCP	*	.0	*	*	*	.0	.0	.0	.0	.0	.1	
	NO PCP	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	.1	.0	*	*	*	.0	.0	.0	.0	.0	.2	
1<2	PCP	.0	.0	.0	.1	.1	*	*	.1	.0	.0	.4	
	NO PCP	.1	.2	*	.1	.1	.1	.1	.1	.0	.1	.8	
	TOT %	.1	.2	*	.2	.2	.1	.1	.2	.0	.1	1.2	
2<5	PCP	.1	*	.0	.1	.1	.1	.3	.3	.0	.0	1.0	
	NO PCP	.1	.1	.2	.4	.2	.2	.1	.1	.0	*	1.4	
	TOT %	.1	.1	.2	.5	.3	.4	.4	.3	.0	*	2.3	
5<10	PCP	.4	.2	.3	.5	.4	.4	1.5	.8	.0	.2	5.2	
	NO PCP	2.2	2.7	2.9	3.5	2.9	2.9	3.9	2.6	.0	.6	23.4	
	TOT %	2.6	2.9	3.2	4.1	3.3	3.8	4.5	3.4	.0	.8	28.6	
10+	PCP	.2	.1	.2	.1	.2	.4	.3	.3	.0	.1	1.8	
	NO PCP	3.4	4.3	8.4	15.8	8.4	8.0	7.5	6.1	.0	3.4	65.4	
	TOT %	3.6	4.4	8.6	15.9	8.6	8.4	7.8	6.4	.0	3.5	67.3	
	TOT OBS												2203
	TOT PCT	6.5	7.6	12.2	20.7	12.4	12.8	12.9	10.4	.0	4.5	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	.0	.0	*	*	.1	*	*	.0	.0		.2	
	11-21	*	.0	*	*	.0	.0	*	*	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	*	.1	.1	*	.1	*	.0	*	.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	*	.0	*	*	*	*	*	.0	.0		.1	
	11-21	*	.0	.0	.0	.0	.0	.0	*	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.0	*	*	*	*	*	*	.0	*	.2	
1<2	0-3	.0	*	.0	.0	*	*	.0	*	.0	.1	.2	
	4-10	.1	.1	.1	.1	.1	.1	.1	.1	.0		.7	
	11-21	.0	*	*	*	.0	.0	*	.1	.0		.2	
	22+	.0	.0	.0	.0	.0	*	.0	*	.0		*	
	TOT %	.1	.1	.1	.2	.1	.1	.1	.2	.0	.1	1.1	
2<5	0-3	*	*	*	*	.1	*	.1	*	.0	.1	.4	
	4-10	.1	*	.1	.3	.1	.2	.3	.2	.0		1.3	
	11-21	*	*	.0	.1	.1	*	.2	.2	.0		.7	
	22+	.0	0	.0	*	.0	*	.1	.1	.0		.2	
	TOT %	.1	.1	.1	.5	.2	.3	.6	.6	.0	.1	2.6	
5<10	0-3	.3	.2	.3	.1	.3	.3	.4	.2	.0	.5	2.6	
	4-10	1.0	1.2	1.1	1.7	1.0	1.4	1.6	1.7	.0		11.2	
	11-21	.3	.2	.5	1.3	.5	.7	.9	1.0	.0		5.3	
	22+	.0	.0	*	.1	*	*	*	.1	.0		.3	
	TOT %	1.5	1.6	1.9	3.2	2.5	2.4	3.0	2.9	.0	.5	19.4	
10+	0-3	.8	1.0	1.0	1.5	1.3	1.3	1.1	1.0	.0	5.2	14.0	
	4-10	2.5	2.7	5.7	10.5	6.4	5.2	5.8	5.7	.0		44.5	
	11-21	.3	.4	1.3	6.9	2.4	1.6	1.9	2.2	.0		17.0	
	22+	*	*	.1	.4	*	.1	.1	.1	.0		.9	
	TOT %	3.6	4.2	8.1	19.4	10.1	8.2	8.8	9.0	.0	5.2	76.4	
	TOT OBS												4652
	TOT PCT	5.4	5.9	10.3	23.4	13.0	11.0	12.5	12.7	.0	5.8	100.0	

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.4	.0	1.2	6.9	14.0	7.2	4.4	.0	.0	.3	34.4	65.6	345
06E09	.0	.0	1.5	4.0	12.9	4.5	.5	.0	.0	.0	23.4	76.6	301
12E15	.0	.0	.3	5.7	7.8	6.7	2.2	.0	.0	.4	23.0	77.0	302
18E21	.0	.3	.7	9.4	10.4	7.9	1.6	.4	1.3	.9	32.9	67.1	264
TOT													1212
PCT	.1	.1	.9	6.3	11.5	6.5	2.2	.1	.3	.4	28.5	71.5	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
00E03	.5	.1	1.4	2.6	20.9	74.6	922
06E09	.2	.2	.6	2.1	16.2	80.9	1348
12E15	.5	.1	1.2	3.4	19.3	75.5	952
18E21	.3	.3	1.2	2.5	23.8	71.9	1357
TOT							4779
PCT	.3	.2	1.1	2.6	20.1	75.7	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.6	1.9	11.7	24.4	63.9	328
06E09	.0	1.6	6.6	18.4	75.0	287
12E15	.0	.7	9.7	15.6	74.8	287
18E21	.0	1.1	12.6	22.6	64.8	264
TOT						1146
PCT	.1	1.4	10.1	20.3	69.6	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	.3	.0	.0	.0	.1	.0	.0	.0		.1
90/94	.0	.0	.0	.0	.3	.1	.0	.0		.4
85/89	.0	.0	.0	.1	2.3	4.5	1.4	.2		8.5
80/84	.0	.0	.0	.2	3.4	28.9	38.1	5.9		76.6
75/79	.0	.0	.0	.0	.1	1.0	7.9	5.4		14.4
70/74	.0	.0	.0	.0	.0	.0	.1	.0		.1
TOTAL									1483	100.0
PCT	.0	.0	.0	.3	6.2	34.5	47.4	11.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
.1	.0	.1	.0	*	.1	.1	.0	.0	.0
.6	.8	1.3	1.7	1.0	1.1	.8	.7	.0	.6
5.1	6.8	9.9	15.8	10.1	9.7	8.4	7.0	.0	3.7
.9	.5	1.3	3.0	1.6	1.8	2.7	2.0	.0	.5
.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
6.8	8.1	12.6	20.5	12.8	12.7	12.0	9.6	.0	4.8

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	97	86	84	81	77	75	70	81.0	2227
06E09	96	91	88	83	79	76	70	83.2	5363
12E15	92	86	85	82	79	77	71	81.9	2347
18E21	91	85	84	81	77	73	72	80.8	4946
TOT	97	89	86	82	78	76	70	81.9	14883

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	2.4	28.0	53.6	16.0	83	370
06E09	.0	.5	18.5	44.6	31.6	4.9	77	386
12E15	.0	.7	2.5	39.2	47.8	9.8	81	368
18E21	.0	.0	1.2	20.4	56.6	15.8	83	435
TOT	0	5	93	534	744	183	81	1559

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TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
11/13	.0	.0	.1	.1	.0	.1	3	.0	.2
7/8	.0	*	.2	.1	.2	.0	10	.0	.5
6	.0	*	*	.1	.3	.0	10	.0	.5
5	.0	.0	.2	.1	.3	.0	13	.0	.6
4	.0	.0	.5	.7	.3	*	25	.0	1.5
3	.0	.1	.5	.8	.2	.0	30	.0	1.6
2	.0	.1	3.5	1.8	.1	.0	105	.0	5.4
1	.0	.3	4.3	1.3	.0	.0	114	.1	5.7
0	.1	1.5	16.1	1.9	.0	.0	373	.3	18.9
-1	*	2.6	13.9	1.0	.0	.0	341	.1	17.4
-2	.1	5.1	14.4	.5	.0	.0	396	.1	19.9
-3	*	4.6	5.2	.3	.0	.0	195	.0	10.0
-4	.2	4.6	3.3	.2	.0	.0	161	.1	8.2
-5	.2	3.3	1.4	.1	.0	.0	97	.0	5.0
-6	.3	1.4	.3	.0	.0	.0	37	.0	1.9
-7/-8	.2	.8	.2	.0	.0	.0	24	.0	1.2
-9/-10	.4	.2	.0	.0	.0	.0	11	.0	.6
-11/-13	*	.1	.0	.0	.0	.0	2	.0	.1
TOTAL							1952		
PCT	1.6	24.7	63.9	8.4	1.3	.1	100.0	.8	99.2

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TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9
1-2	.2	2.5	.5	.0	.0	.0	3.2
3-4	.0	.5	.3	.0	.0	.0	.8
5-6	.0	.0	.1	.1	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.9	.9	.1	.0	.0	5.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.0	.1	.0	.0	.0	1.6
1-2	.4	2.1	.6	.0	.0	.0	3.1
3-4	.0	.6	.3	.0	.0	.0	.9
5-6	.0	.0	.0	*	.0	.0	*
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	3.7	1.0	*	.0	.0	5.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.2	.1	.0	.0	.0	1.8
1-2	.6	5.4	.9	.0	.0	.0	6.9
3-4	.0	2.0	1.2	.0	.0	.0	3.2
5-6	.0	.1	.6	.2	.0	.0	.8
7	.0	.0	.1	.2	.0	.0	.4
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	8.8	2.8	.6	.0	.0	13.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	1.6	.0	.0	.0	.0	2.9
1-2	.3	7.6	2.4	.0	.0	.0	10.3
3-4	.0	2.6	3.3	.0	.0	.0	5.9
5-6	.0	.4	2.5	.5	.0	.0	3.4
7	.0	.0	.7	.3	.0	.0	.9
8-9	.0	.0	.1	.1	.0	.0	.2
10-11	.0	.0	.2	*	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	12.3	9.2	.8	.0	.0	23.9

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TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	1.8	.0	.0	.0	.0	2.8
1-2	.6	5.6	1.1	.0	.0	.0	7.3
3-4	.0	1.0	2.0	.0	.0	.0	3.0
5-6	.0	.0	.6	.0	.0	.0	.6
7	.0	.2	.6	.0	.0	.0	.8
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	8.7	4.2	.1	.0	.0	14.6

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.4	.0	.0	.0	.0	1.7
1-2	.3	5.1	1.3	.0	.0	.0	6.7
3-4	.0	1.3	1.7	.0	.0	.0	3.0
5-6	.0	.0	1.0	.0	.0	.0	1.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	7.8	4.0	.0	.0	.0	12.4

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.1	.0	.0	.0	.0	1.2
1-2	.1	3.4	.7	.0	.0	.0	4.2
3-4	.0	1.8	2.2	.0	.0	.0	4.0
5-6	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.1	.0	.2	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	6.4	3.4	.2	.0	.0	10.1

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.7	.8	.0	.0	.0	.0	1.4	
1-2	.3	2.6	.8	.0	.0	.0	3.7	
3-4	.2	.7	1.4	.0	.0	.0	2.3	
5-6	.0	.3	.6	.0	.0	.0	.9	
7	.0	.0	.3	.1	.0	.0	.4	
8-9	.0	*	.0	.0	.0	.0	*	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.1	4.4	3.1	.1	.0	.0	8.8	93.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	10.9	9.7	.2	.0	.0	.0	20.9	
1-2	3.1	34.3	8.1	.0	.0	.0	45.5	
3-4	.2	10.3	12.2	.0	.0	.0	22.6	
5-6	.0	.9	5.6	.8	.0	.0	7.2	
7	.0	.2	1.8	.4	.0	.0	2.6	
8-9	.0	.1	.1	.5	.0	.0	.8	
10-11	.0	.0	.2	.1	.0	.0	.3	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	14.2	55.5	28.2	2.0	.0	.0	100.0	686

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	7.8	26.7	14.9	5.3	1.2	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	554	2
6-7	.1	2.1	6.9	4.8	2.5	1.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	174	4
8-9	.0	.6	2.1	2.3	1.1	.7	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	74	5
10-11	.0	.6	.6	.5	.5	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	5
12-13	.0	.0	.8	.5	.3	.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	6
>13	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	6
INDET	7.5	2.3	1.8	.8	.9	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	135	2
TOTAL PCT	15.4	32.2	27.1	14.4	6.6	3.0	1.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	989 100.0	3

PERIOD: (PRIMARY) 1877-1973
(OVER-ALL) 1854-1973

TABLE 20

AREA 0003 SUNDA STRAIT
5.6S 104.8E

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
95+	.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	.1	.2	.0	3	*
89/90	.2	.1	.2	.3	.1	.3	.1	.1	.1	.3	.2	.1	23	.2
87/88	1.9	1.6	2.0	3.1	2.8	1.6	.6	.5	.7	1.1	1.0	.9	216	1.5
85/86	7.2	9.7	16.3	22.6	25.4	15.4	8.7	5.3	5.2	8.1	9.8	8.1	1693	11.8
83/84	33.2	35.6	40.7	49.1	50.7	49.4	40.6	29.0	27.5	37.5	38.3	36.3	5550	39.1
81/82	46.2	43.2	33.7	22.7	19.0	28.1	41.0	47.0	49.1	39.8	39.9	45.6	5378	37.8
79/80	9.1	8.4	5.9	1.8	1.6	4.2	7.6	13.9	11.7	9.6	8.4	7.3	1058	7.4
77/78	2.5	.8	.3	.3	.2	.6	1.0	3.0	4.3	3.0	1.7	1.0	220	1.5
75/76	.2	.3	.0	.1	.1	.3	.2	.7	.7	.4	.4	.6	46	.3
73/74	.1	.4	.1	.0	.0	.2	.0	.3	.3	.2	.3	.0	21	.1
71/72	.0	.0	.1	.0	.0	.0	.1	.2	.3	.1	.0	.1	10	.1
69/70	.0	.0	.0	.0	.0	.0	.2	.0	.1	.0	.0	.0	3	*
67/68	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
65/66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
63/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	1102	1064	1263	1160	1218	1195	1277	1275	1162	1179	1145	1171	14211	100.0
MEAN	82.2	82.4	83.0	83.5	83.6	83.1	82.5	81.8	81.8	82.3	82.4	82.4	82.5	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1011	1009	1010	1008	1010	1009	1010	1008	1010	230
FEB	1010	1012	1010	1009	1009	1011	1009	1010	1010	167
MAR	1010	1011	1010	1009	1009	1009	1010	1009	1010	294
APR	1010	1010	1009	1008	1009	1009	1009	1008	1009	264
MAY	1010	1011	1009	1010	1009	1011	1009	1008	1009	284
JUN	1011	1011	1010	1009	1009	1010	1010	1009	1010	228
JUL	1011	1010	1010	1009	1010	1011	1011	1010	1010	317
AUG	1011	1011	1010	1009	1010	1010	1010	1009	1010	309
SEP	1011	1011	1011	1010	1010	1010	1011	1011	1011	253
OCT	1011	1012	1010	1010	1010	1010	1011	1010	1010	222
NOV	1011	1007	1010	1008	1010	1010	1010	1009	1010	262
DEC	1010	1008	1009	1007	1009	1009	1010	1008	1009	230
ANN	1011	1010	1010	1009	1009	1010	1010	1009	1010	3060
OBS	470	64	980	236	507	93	433	277		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	1003	1004	1007	1008	1010	1011	1013	1013	1014
FEB	1005	1006	1006	1008	1010	1011	1011	1013	1014
MAR	1004	1005	1006	1009	1010	1011	1012	1012	1013
APR	1005	1005	1006	1008	1009	1010	1012	1012	1013
MAY	1005	1005	1007	1008	1009	1010	1013	1014	1015
JUN	1006	1006	1007	1008	1010	1011	1013	1014	1015
JUL	1006	1006	1007	1009	1011	1011	1013	1014	1016
AUG	1005	1006	1007	1009	1010	1011	1013	1014	1015
SEP	1005	1007	1008	1009	1011	1012	1014	1014	1015
OCT	1006	1006	1007	1009	1010	1011	1013	1013	1014
NOV	1004	1005	1006	1009	1010	1011	1013	1013	1014
DEC	1004	1004	1006	1008	1009	1011	1013	1013	1014

PERIOD: (PRIMARY) 1916-1973
(OVER-ALL) 1855-1973

AREA 0004 NORTHWEST JAVA SEA
3.6S 104, E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	3.6	10.7	2.7	.0	.0	.0	.0	17.0	.0	5.4	3.6	.0	.0	.0	.0	75.9
NE	10.5	.0	.0	.0	.0	.0	.0	10.5	.0	31.6	.0	.0	.0	.0	.0	68.4
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.0	50.0	.0	.0	.0	.0	.0	50.0	.0	.0	.0	.0	.0	.0	.0	50.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	27.3	.0	.0	.0	.0	.0	72.7
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	.0	.0	.0	.0	.0	95.7
W	6.5	11.4	1.6	.0	.0	.0	.0	19.5	3.3	9.8	.0	.0	.0	.0	.0	70.7
NW	4.8	10.3	2.4	.0	.0	.0	.0	17.5	1.4	5.5	2.7	.0	.0	.0	.0	72.9
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	20.0	.0	.0	.0	.0	.0	80.0
TOT PCT	4.3	9.3	1.9	.0	.0	.0	.0	15.5	1.2	8.1	1.9	.0	.0	.0	.0	74.5
TOT OBS:	161															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.0	6.3	6.3	.0	.0	.0	.0	12.5	6.3	3.1	6.3	.0	.0	.0	.0	71.9
06&09	.0	9.3	.0	.0	.0	.0	.0	9.3	.0	.0	.0	.0	.0	.0	.0	90.7
12&15	10.9	.0	2.2	.0	.0	.0	.0	13.0	.0	17.4	.0	.0	.0	.0	.0	69.6
18&21	7.3	16.4	1.8	.0	.0	.0	.0	25.5	.0	14.5	1.8	.0	.0	.0	.0	61.8
TOT PCT	5.1	8.5	2.3	.0	.0	.0	.0	15.9	1.1	9.7	1.7	.0	.0	.0	.0	72.7
TOT OBS:	176															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.1	9.9	4.4	.2	.0	.0		15.6	8.6	13.3	.0	11.7	15.0	18.5	16.7	16.7	18.8
NE	1.9	1.6	.0	.0	.0	.0		3.6	4.7	1.2	.0	1.6	4.2	8.0	.0	5.0	2.5
E	.8	.8	.0	.0	.0	.0		1.7	3.9	.0	.0	.0	4.2	3.0	.0	2.4	1.2
SE	.2	1.0	.0	.0	.0	.0		1.2	4.6	.4	.0	.0	4.2	3.0	.0	.5	.0
S	.5	1.4	.4	.0	.0	.0		2.2	6.4	2.1	.0	1.6	4.2	3.0	.0	1.9	1.2
SW	1.3	4.3	.8	.0	.0	.0		6.4	6.9	5.1	.0	5.7	6.7	8.5	16.7	4.8	8.0
W	2.3	12.4	4.8	.6	.0	.0		20.2	8.5	22.3	62.5	23.4	19.2	12.8	33.3	20.0	21.6
NW	1.6	26.0	14.8	.4	.0	.0		42.9	9.7	49.4	37.5	50.8	35.8	35.3	33.3	42.1	42.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.0							6.0	.0	6.0	.0	5.2	6.7	8.0	.0	6.7	3.7
TOT OBS	84	306	136	6	0	0	532		8.1	83	4	96	60	100	3	105	81
TOT PCT	15.8	57.5	25.6	1.1	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	6.8	8.0	.8	.1	.0		15.6	8.6	12.6	13.0	18.4	17.6
NE	2.9	.9	.0	.0	.0		3.8	4.7	1.1	2.6	7.8	3.9
E	1.5	.2	.0	.0	.0		1.7	3.9	.0	1.6	2.9	1.9
SE	1.1	.1	.0	.0	.0		1.2	4.6	.6	1.6	2.9	.3
S	1.4	.8	.0	.0	.0		2.2	6.4	2.0	2.6	2.9	1.6
SW	3.5	2.7	.2	.0	.0		6.4	6.9	4.9	6.1	8.7	6.2
W	8.6	10.1	1.4	.0	.0		20.2	8.5	24.1	21.8	13.3	20.7
NW	11.7	28.0	3.1	.1	.0		42.9	9.7	48.9	45.0	33.2	42.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	6.0						6.0	.0	5.7	5.8	7.8	5.4
TOT OBS	232	270	29	1	0	532		8.1	87	156	103	186
TOT PCT	43.6	50.8	5.5	.2	.0		100.0		100.0	100.0	100.0	100.0

JANUARY

PERIOD: (PRIMARY) 1916-1973
(OVER-ALL) 1855-1973

AREA 0004 NORTHWEST JAVA SEA
3.6S 106.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	5.7	4.6	60.9	27.6	1.1	.0	.0	8.5	100.0	87
06&09	5.8	12.2	57.7	23.7	.6	.0	.0	7.6	100.0	156
12&15	7.8	13.6	56.3	21.4	1.0	.0	.0	7.3	100.0	103
18&21	5.4	8.1	56.5	28.5	1.6	.0	.0	8.7	100.0	186
TOT	32	52	305	136	6	0	0	8.1		532
PCT	6.0	9.8	57.5	25.6	1.1	.0	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.4	2.8	7.0	6.0		5.9
NE	.0	1.4	.4	.0		4.2
E	.0	.0	.0	.0		.0
SE	.0	.0	1.4	.0		6.0
S	.0	.0	1.1	.0		7.0
SW	1.4	.0	2.1	1.1		5.3
W	1.4	2.8	5.3	6.7		6.0
NW	1.4	2.8	26.4	15.8		6.5
VAR	.0	.0	.0	.0		.0
CALM	1.4	.0	8.5	1.4		5.8
TOT OBS	5	7	37	22	71	6.1
TOT PCT	7.0	9.9	52.1	31.0	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	1.4	1.4	2.5	1.8	.0	.0	.0	.0	10.2	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
SE	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	
S	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	
SW	.0	.0	.7	.0	1.4	.4	.4	.0	.0	.0	1.8	
W	.0	.0	.7	1.4	2.1	1.1	.0	.0	.0	.0	10.9	
NW	.0	.0	.0	2.8	9.5	2.5	1.4	.0	.0	.0	30.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	9.9	
TOT OBS	0	0	2	4	12	5	2	0	0	0	46	71
TOT PCT	.0	.0	2.8	5.6	16.9	7.0	2.8	.0	.0	.0	64.8	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	1.4	2.7	2.7	2.7	2.7	2.7	2.7	2.7
* OR >2000	8.2	9.6	9.6	9.6	9.6	9.6	9.6	9.6
* OR >1000	23.3	26.0	26.0	26.0	26.0	26.0	26.0	26.0
* OR >600	24.7	28.8	30.1	31.5	31.5	31.5	31.5	31.5
* OR >300	24.7	31.5	32.9	34.2	34.2	34.2	34.2	34.2
* OR >150	24.7	31.5	32.9	34.2	34.2	34.2	34.2	34.2
* OR > 0	24.7	31.5	32.9	34.2	34.2	34.2	34.2	34.2
TOTAL	18	23	24	25	25	25	25	25

TOTAL NUMBER OF OBS: 73 PCT FREQ NH <5/8: 65.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
3.9	14.3	11.7	24.7	10.4	9.1	11.7	6.5	7.8	.0	77

PERIOD: (PRIMARY) 1916-1973
(OVER-ALL) 1855-1973

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	NO PCP	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	
	TOT %	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	
	PCP	.3	.0	.0	.0	.0	.0	.6	.9	.0	.0	1.9	
2<5	NO PCP	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6	
	TOT %	.3	.0	.0	.0	.0	.0	.6	1.6	.0	.0	2.5	
	PCP	1.6	.3	.0	.0	.0	.0	3.1	5.0	.0	.0	9.9	
5<10	NO PCP	7.8	1.2	2.5	.0	.5	.9	3.0	12.7	.0	.6	28.6	
	TOT %	9.3	1.6	2.5	.0	.5	.9	6.1	17.7	.0	.6	38.5	
	PCP	1.1	.0	.0	.6	.0	.0	.0	2.0	.0	.0	3.7	
10+	NO PCP	6.2	1.4	.0	.6	1.2	3.1	13.4	24.1	.0	5.6	54.7	
	TOT %	7.3	1.4	.0	1.2	1.2	3.1	13.4	24.1	.0	5.6	58.4	
	TOT OBS												161
	TOT PCT	17.4	3.0	2.5	1.2	1.7	3.6	19.1	45.3	.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
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.3	.0	.0	.0	.0	.0	.3	.0	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.0	.0	.0	.0	.0	.3	.0	.0	.0	.6	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	
2<5	4-10	.2	.0	.0	.0	.0	.0	.8	.9	.0		1.9	
	11-21	.0	.0	.0	.0	.0	.0	.0	.3	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.0	.0	.0	.0	.0	.8	1.3	.0	.3	2.5	
	0-3	.3	.3	.6	.0	.0	.0	.0	.0	.0	.3	1.6	
5<10	4-10	3.1	.6	.6	.0	.2	.6	1.4	7.0	.0		13.6	
	11-21	1.4	.0	.0	.0	.0	.2	1.5	2.3	.0		5.4	
	22+	.2	.0	.0	.0	.0	.0	.5	.3	.0		.9	
	TOT %	5.0	.9	1.3	.0	.2	.7	3.4	9.6	.0	.3	21.5	
	0-3	1.0	1.1	.3	.2	.5	1.6	2.4	2.1	.0	6.9	16.1	
10+	4-10	9.5	.9	.6	.8	.8	1.4	9.6	18.1	.0		41.6	
	11-21	3.2	.3	.0	.0	.0	.9	1.4	11.8	.0		17.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	13.6	2.3	.9	.9	1.3	3.9	13.4	32.0	.0	6.9	75.4	
	TOT OBS												317
	TOT PCT	19.1	3.2	2.2	.9	1.5	4.7	17.9	42.9	.0	7.6	100.0	

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PERIOD: (PRIMARY) 1916-1973
(OVER-ALL) 1855-1973

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	.0	10.5	10.5	10.5	5.3	.0	.0	.0	36.8	63.2	19
06E09	.0	.0	.0	5.3	21.1	5.3	.0	.0	.0	.0	31.6	68.4	19
12E15	.0	.0	4.3	4.3	17.4	.0	.0	.0	.0	.0	26.1	73.9	23
18E21	.0	.0	7.1	.0	14.3	14.3	7.1	.0	.0	.0	42.9	57.1	14
TOT	0	0	2	4	12	5	2	0	0	0	25	50	75
PCT	.0	.0	2.7	5.3	16.0	6.7	2.7	.0	.0	.0	33.3	66.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.0	.0	.0	4.0	26.0	70.0	50
06E09	.0	.0	.0	1.3	16.3	82.5	80
12E15	.0	.0	1.2	2.5	14.8	81.5	81
18E21	.0	.0	.8	2.5	28.1	68.6	121
TOT	0	0	2	8	72	250	332
PCT	.0	.0	.6	2.4	21.7	75.3	100.0

TABLE 12

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

HOUR (GMT)	<150 <500YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	.0	10.5	26.3	63.2	19
06E09	.0	.0	5.3	26.3	68.4	19
12E15	.0	4.3	8.7	17.4	73.9	23
18E21	.0	8.3	8.3	41.7	50.0	12
TOT	0	2	6	19	48	73
PCT	.0	2.7	8.2	26.0	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
85/89	.0	.0	.0	.0	1.6	1.6	2.4	.0	7	5.6
80/84	.0	.0	.0	.0	.8	22.6	38.7	9.7	89	71.8
75/79	.0	.0	.0	.0	.0	.8	10.5	11.3	28	22.6
TOTAL	0	0	0	0	3	31	64	26	124	100.0
PCT	.0	.0	.0	.0	2.4	25.0	51.6	21.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.8	.8	.0	.0	.4	2.8	.0	.8
14.9	2.4	2.4	.8	.8	2.8	8.9	31.5	.0	7.3
5.4	.6	.0	.0	.6	.2	6.0	9.7	.0	.0
20.4	3.0	3.2	1.6	1.4	3.0	15.3	44.0	.0	8.1

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	88	85	83	80	76	75	75	80.3	89
06E09	89	87	86	82	79	76	76	82.2	156
12E15	86	85	84	81	78	76	76	81.1	111
18E21	83	82	82	80	74	73	72	79.9	190
TOT	89	87	85	81	77	75	72	80.9	546

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	.0	8.3	75.0	16.7	85	24
06E09	.0	.0	8.6	42.9	42.9	5.7	79	35
12E15	.0	.0	2.7	27.0	48.6	21.6	83	37
18E21	.0	.0	.0	14.3	50.0	35.7	87	42
TOT	0	0	4	33	72	29	84	138

PERIOD: (PRIMARY) 1916-1973
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TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	# FOG	WO FOG
5	.0	.0	.0	1.5	.8	3	.0	2.3
4	.0	.0	.0	.8	.0	1	.0	.8
3	.0	.0	.0	.8	.0	1	.0	.8
2	.0	.0	4.5	.0	.0	6	.0	4.5
1	.0	.8	4.5	1.5	.0	9	.0	6.8
0	.0	5.3	15.9	.0	.0	28	.8	20.5
-1	.0	5.3	9.8	1.5	.0	22	.0	16.7
-2	.0	12.1	16.7	.0	.0	38	.0	28.8
-3	.0	4.5	3.8	.0	.0	11	.0	8.3
-4	.8	4.5	.8	.0	.0	8	.0	6.1
-5	.0	3.0	.0	.0	.0	4	.0	3.0
-6	.0	.0	.8	.0	.0	1	.0	.8
TOTAL	1	47	75	8	1	132	1	131
PCT	.8	35.6	56.8	6.1	.8	100.0	.8	99.2

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	5.9	.0	.0	.0	.0	5.9
1-2	.0	7.4	.0	.0	.0	.0	7.4
3-4	.0	.0	4.4	.0	.0	.0	4.4
5-6	.0	.0	2.9	.0	.0	.0	2.9
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	13.2	7.4	.0	.0	.0	20.6

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.9	.0	.0	.0	.0	.0	2.9
1-2	.0	.7	.0	.0	.0	.0	.7
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.9	.7	.0	.0	.0	.0	3.7

E

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

SE

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

PERIOD: (OVER-ALL) 1963-1973 JANUARY AREA 0004 NORTHWEST JAVA SEA

TABLE 18 (CONT) 3.6S 106.5E

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.2	.0	.0	.0	.0	2.2
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.2	.0	.0	.0	.0	2.2

SW

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

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	4.4	.0	.0	.0	.0	4.4
3-4	.0	2.9	.0	.0	.0	.0	2.9
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.4	.0	.0	.0	.0	7.4

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	19.1	8.8	.0	.0	.0	27.9	
3-4	.0	.0	13.2	.0	.0	.0	13.2	
5-6	.0	.0	5.9	.0	.0	.0	5.9	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	19.1	27.9	.0	.0	.0	47.1	95.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	19.4	8.3	.0	.0	.0	.0	27.8	
1-2	2.8	33.3	8.3	.0	.0	.0	44.4	
3-4	.0	2.8	16.7	.0	.0	.0	19.4	
5-6	.0	.0	8.3	.0	.0	.0	8.3	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	22.2	44.4	33.3	.0	.0	.0	100.0	36

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	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	14.8	29.6	27.8	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	2
6-7	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
8-9	.0	.0	1.9	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	14.8	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	1
TOTAL	16	16	18	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54	2
PCT	29.6	29.6	33.3	5.6	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1957-1973

AREA 0004 NORTHWEST JAVA SEA
3.6S 106.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	1.1	5.5	.0	.0	.0	.0	.0	6.6	.0	4.4	2.2	.0	.0		.0	38.0
NE	5.0	.0	.0	.0	.0	.0	.0	5.0	.0	17.5	20.0	.0	.0		.0	62.5
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	44.4	.0	.0		.0	55.6
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
SW	6.3	.0	.0	.0	.0	.0	.0	6.3	.0	.0	.0	.0	.0		.0	93.8
W	14.3	4.4	.0	.0	.0	.0	.0	18.7	.0	13.2	.0	.0	.0		.0	76.9
NW	6.4	11.9	.0	.0	.0	.0	.0	18.3	.0	7.8	1.8	.0	1.8		.0	74.0
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	20.0	.0	.0	.0		.0	80.0
TOT PCT	5.3	6.6	.0	.0	.0	.0	.0	11.9	.0	7.9	3.3	.0	.7		.0	79.5
TOT OBS:	151															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	11.1	7.4	.0	.0	.0	.0	.0	18.5	.0	3.7	.0	.0	.0		.0	81.5
06&09	.0	5.0	.0	.0	.0	.0	.0	5.0	.0	.0	5.0	.0	.0		.0	90.0
12&15	2.4	2.4	.0	.0	.0	.0	.0	4.9	.0	14.6	4.9	.0	2.4		.0	75.6
18&21	7.8	9.8	.0	.0	.0	.0	.0	17.6	.0	11.8	2.0	.0	.0		.0	74.5
TOT PCT	5.0	6.3	.0	.0	.0	.0	.0	11.3	.0	8.2	3.1	.0	.6		.0	79.9
TOT OBS:	159															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.7	16.5	4.2	.3	.0	.0		23.7	8.0	23.2	25.0	16.4	21.8	25.5	40.0	28.6	21.7
NE	.9	3.0	.7	.0	.0	.0		4.6	6.8	.4	6.3	2.1	7.3	5.9	.0	6.1	4.3
E	1.9	.8	.0	.0	.0	.0		2.7	3.0	1.8	21.9	.0	6.4	3.2	.0	1.9	1.4
SE	.4	.8	.0	.0	.0	.0		1.3	5.3	.0	3.1	.0	2.7	2.7	.0	1.0	.7
S	1.0	1.8	.0	.0	.0	.0		2.8	4.9	.0	.0	1.4	1.8	3.8	20.0	5.6	.7
SW	1.5	3.0	.8	.0	.0	.0		5.3	6.7	8.9	.0	5.0	4.5	4.3	.0	4.9	6.5
W	2.1	7.6	4.0	.0	.0	.0		13.7	8.2	11.6	12.5	20.0	17.3	13.7	10.0	11.2	10.1
NW	2.6	26.0	7.9	.2	.0	.0		36.7	8.3	50.4	31.3	47.9	29.1	24.7	10.0	33.0	44.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.4							9.4	.0	3.6	.0	7.1	9.1	16.1	20.0	7.8	10.1
TOT OBS	103	273	81	2	0	0	459		7.0	56	8	70	55	93	5	103	69
TOT PCT	22.4	59.5	17.6	.4	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	9.9	12.7	1.1	.0	.0		23.7	8.0	23.4	18.8	26.3	25.9
NE	2.5	2.1	.0	.0	.0		4.6	6.8	1.2	4.4	5.6	5.4
E	2.6	.1	.0	.0	.0		2.7	3.0	4.3	2.0	3.1	1.7
SE	.8	.4	.0	.0	.0		1.3	5.3	.4	1.2	2.6	.9
S	2.1	.7	.0	.0	.0		2.8	4.9	.0	1.6	4.6	3.6
SW	2.6	2.7	.0	.0	.0		5.3	6.7	7.8	4.8	4.1	5.5
W	5.8	7.2	.7	.0	.0		13.7	8.2	11.7	18.8	13.5	10.8
NW	14.5	20.4	1.7	.0	.0		36.7	8.3	48.0	39.6	24.0	37.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	9.4						9.4	.0	3.1	8.0	16.3	8.7
TOT OBS	230	213	16	0	0	459		7.0	64	125	98	172
TOT PCT	50.1	46.4	3.5	.0	.0		100.0		100.0	100.0	100.0	100.0

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

AREA 0004 NORTHWEST JAVA SEA
3.6S 106.6E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.1	15.6	60.9	20.3	.0	.0	.0	7.7	100.0	64
06&09	8.0	16.8	60.0	15.2	.0	.0	.0	6.6	100.0	125
12&15	16.3	14.3	56.1	12.2	1.0	.0	.0	6.1	100.0	98
18&21	8.7	8.7	60.5	21.5	.6	.0	.0	7.6	100.0	172
TOT	43	60	273	81	2	0	0	7.0		459
PCT	9.4	13.1	59.5	17.6	.4	.0	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.1	4.2	11.7	11.0		6.4
NE	.0	3.4	1.9	.0		4.8
E	.0	.0	1.1	.0		6.0
SE	.0	.0	.4	.0		5.0
S	.0	1.1	.0	.6		4.6
SW	.0	.4	1.5	.0		6.4
W	2.7	10.6	2.7	1.5		3.8
NW	.8	7.6	17.0	13.3		6.5
VAR	.0	.0	.0	.0		.0
CALM	1.5	.0	4.5	.0		5.2
TOT OBS	4	18	27	17	66	5.8
TOT PCT	6.1	27.3	40.9	25.8	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	3.0	3.0	1.1	.0	.0	.0	.0	20.8	
NE	.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0	3.8	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	
W	.0	.0	.0	.0	2.7	.0	.0	.0	.0	.0	14.8	
NW	.0	.0	.0	4.5	4.9	3.4	3.0	.0	.0	.0	22.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	1.5	.0	1.5	.0	.0	.0	3.0	
TOT OBS	0	0	0	5	8	4	3	0	0	0	46	66
TOT PCT	.0	.0	.0	7.6	12.1	6.1	4.5	.0	.0	.0	69.7	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) • OR >10	• OR >5	• OR >2	• OR >1	• OR >1/2	• OR >1/4	• OR >50YD	• OR >0
• OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
• OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
• OR >3500	1.5	4.4	4.4	4.4	4.4	4.4	4.4	4.4
• OR >2000	7.4	10.3	10.3	10.3	10.3	10.3	10.3	10.3
• OR >1000	19.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1
• OR >600	25.0	29.4	29.4	29.4	29.4	29.4	29.4	29.4
• OR >300	25.0	29.4	29.4	29.4	29.4	29.4	29.4	29.4
• OR >150	25.0	29.4	29.4	29.4	29.4	29.4	29.4	29.4
• OR > 0	25.0	29.4	29.4	29.4	29.4	29.4	29.4	29.4
TOTAL	17	20	20	20	20	20	20	20

TOTAL NUMBER OF OBS: 68

PCT FREQ NH <5/8: 70.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
1.4	16.4	20.5	21.9	11.0	8.2	6.8	6.8	6.8	.0	73

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

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	1.3	.7	.0	.0	2.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	1.3	.7	.0	.0	2.0	
5<10	PCP	2.0	.3	.0	.0	.0	.3	.8	4.6	.0	.0	7.9	
	NO PCP	7.6	3.3	.0	1.0	1.7	1.4	2.3	9.3	.0	.7	27.2	
	TOT %	9.6	3.6	.0	1.0	1.7	1.8	3.1	13.9	.0	.7	35.1	
10+	PCP	.0	.0	.0	.0	.0	.0	.7	1.3	.0	.0	2.0	
	NO PCP	20.7	3.0	1.2	.5	1.5	1.2	9.9	20.6	.0	2.6	60.9	
	TOT %	20.7	3.0	1.2	.5	1.5	1.2	10.6	21.7	.0	2.6	62.9	
	TOT OBS												151
	TOT PCT	30.3	6.6	1.2	1.5	3.1	2.4	15.1	36.3	.0	3.3	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.4	.7	.0		1.1	
	11-21	.2	.0	.0	.0	.0	.0	.4	.6	.0		1.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.0	.0	.0	.0	.0	.7	1.3	.0	.0	2.2	
5<10	0-3	.7	.7	.0	.4	.4	.0	.0	.7	.0	.7	3.7	
	4-10	4.1	1.1	.0	.2	.6	.7	1.5	6.3	.0		14.4	
	11-21	.6	.2	.0	.0	.0	.1	.6	1.1	.0		2.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	5.4	2.0	.0	.6	.9	.8	2.1	8.1	.0	.7	20.7	
10+	0-3	2.1	.6	2.4	.0	.0	1.1	1.3	2.8	.0	8.9	19.2	
	4-10	13.2	2.1	.3	1.0	1.8	1.6	5.1	20.0	.0		45.0	
	11-21	4.1	.7	.0	.0	.0	.6	2.7	4.5	.0		12.5	
	22+	.3	.0	.0	.0	.0	.0	.0	.1	.0		.4	
	TOT %	19.6	3.5	2.7	1.0	1.8	3.2	9.0	27.4	.0	8.9	77.1	
	TOT OBS												271
	TOT PCT	25.2	5.5	2.7	1.6	2.7	4.1	11.9	36.8	.0	9.6	100.0	

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

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	.0	11.8	23.5	5.9	.0	.0	.0	.0	41.2	58.8	17
06E09	.0	.0	.0	.0	16.7	.0	.0	.0	.0	.0	16.7	83.3	18
12E15	.0	.0	.0	5.3	5.3	10.5	10.5	.0	.0	.0	31.6	68.4	19
18E21	.0	.0	.0	11.1	.0	5.6	5.6	.0	.0	.0	22.2	77.8	18
TOT	0	0	0	5	8	4	3	0	0	0	20	52	72
PCT	.0	.0	.0	6.9	11.1	5.6	4.2	.0	.0	.0	27.8	72.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.0	.0	.0	.0	14.3	85.7	42
06E09	.0	.0	.0	.0	22.4	77.6	67
12E15	.0	.0	.0	2.9	22.1	75.0	68
18E21	.0	.0	.0	3.9	23.5	72.5	102
TOT	0	0	0	6	60	213	279
PCT	.0	.0	.0	2.2	21.5	76.3	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	.0	11.8	29.4	58.8	17
06E09	.0	.0	.0	17.6	82.4	17
12E15	.0	.0	5.6	27.8	66.7	18
18E21	.0	.0	12.5	12.5	75.0	16
TOT	0	0	5	15	48	68
PCT	.0	.0	7.4	22.1	70.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.8	.8	.0	.0	2	1.6
85/89	.0	.0	.0	.0	.8	4.1	1.6	.0	8	6.6
80/84	.0	.0	.0	.0	.8	23.0	41.8	11.5	94	77.0
75/79	.0	.0	.0	.0	.0	.8	6.6	7.4	18	14.8
TOTAL	0	0	0	0	3	35	61	23	122	100.0
PCT	.0	.0	.0	.0	2.5	28.7	50.0	18.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.8	.0	.0	.0	.0	.0	.6	.2	.0	.0
	.6	.8	.6	.2	.0	.0	.8	3.5	.0	.0
	25.2	6.1	.0	1.6	1.6	2.7	9.0	26.6	.0	4.1
	3.9	.0	.0	.0	.6	.2	1.5	5.5	.0	.0
	30.5	7.0	.6	1.8	2.3	2.9	15.0	35.9	.0	4.1

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	88	87	84	81	78	74	74	80.7	63
06E09	92	90	87	82	78	77	76	82.4	124
12E15	85	84	84	82	78	76	76	81.4	98
18E21	83	82	82	81	77	75	73	80.4	167
TOT	92	87	85	81	78	75	73	81.2	452

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	.0	26.3	47.4	26.3	84	19
06E09	.0	.0	8.3	52.3	33.3	5.6	79	36
12E15	.0	.0	.0	33.3	51.5	15.2	83	33
18E21	.0	.0	.0	14.3	57.1	28.6	86	42
TOT	0	0	3	41	62	24	83	130

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TABLE 17

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

AIR-SEA TAP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	.8	1	.0	.8
7/8	.0	.0	.0	.0	.8	1	.0	.8
4	.0	.0	.8	.8	.0	2	.0	1.5
3	.0	.0	.0	.8	.0	1	.8	.0
2	.0	.0	6.0	.8	.0	9	.0	6.8
1	.0	.0	9.0	1.5	.0	14	.0	10.5
0	.0	3.8	19.5	7.3	.0	34	.8	24.8
-1	.0	4.5	13.5	.0	.0	24	.0	18.0
-2	.0	4.5	11.3	.0	.0	21	.0	15.8
-3	.0	6.0	3.8	.0	.0	13	.0	9.8
-4	.0	3.8	.8	.0	.0	6	.0	4.5
-5	.0	1.5	2.3	.0	.0	5	.0	3.8
-7/-8	.0	.8	.0	.0	.0	1	.0	.8
-9/-10	.8	.0	.0	.0	.0	1	.0	.8
TOTAL	1	33	89	8	2	133	2	131
PCT	.8	24.8	66.9	6.0	1.5	100.0	1.5	98.5

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.6	2.6	.0	.0	.0	.0	5.1
1-2	.0	13.5	2.6	.0	.0	.0	16.0
3-4	.0	.0	4.5	.0	.0	.0	4.5
5-6	.0	.0	1.9	1.9	.0	.0	3.8
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	16.0	9.0	1.9	.0	.0	29.5

NE

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

E

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

SE

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

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TABLE 18 (CONT) 3.0S 106.6E

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

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

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	2.6	2.6	.0	.0	.0	.0	5.1	
1-2	2.6	7.1	7.1	.0	.0	.0	16.7	.0	17.3	3.2	.0	.0	.0	20.5	
3-4	.0	4.5	.0	.0	.0	.0	4.5	.0	.6	5.8	.0	.0	.0	6.4	
5-6	.0	.0	.0	.0	.0	.0	0	.0	.0	5.8	.6	.0	.0	6.4	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	.0	.0	.0	2.6	
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	2.6	11.5	7.1	.0	.0	.0	21.2	2.6	20.5	17.3	.6	.0	.0	41.0	97.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	9.8	7.3	.0	.0	.0	.0	17.1	
1-2	2.4	39.0	12.2	.0	.0	.0	53.7	
3-4	.0	4.9	12.2	.0	.0	.0	17.1	
5-6	.0	.0	7.3	2.4	.0	.0	9.8	
7	.0	.0	2.4	.0	.0	.0	2.4	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	12.2	51.2	34.1	2.4	.0	.0	100.0	41

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	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	13.6	37.3	8.5	5.1	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	39	2
6-7	.0	3.4	5.1	1.7	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	4
8-9	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
10-11	.0	.0	1.7	.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	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	5.1	8.5	5.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	2
TOTAL	11	29	13	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59	2
PCT	18.6	49.2	22.0	6.8	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1860-1973

AREA 0004 NORTHWEST JAVA SEA
3.6S 106.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
N	4.8	10.6	.0	.0	.0	.0	.0	15.3	.0	15.3	3.2	.0	.0	.0	.0	67.2
NE	.0	4.9	.0	.0	.0	.0	.0	4.9	4.9	15.9	14.6	.0	.0	.0	.0	59.8
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	31.3	.0	.0	.0	.0	.0	68.8
SE	11.1	.0	.0	.0	.0	.0	.0	11.1	.0	27.8	.0	.0	.0	.0	.0	72.2
S	22.0	.0	.0	.0	.0	.0	.0	22.0	.0	22.0	.0	.0	.0	.0	.0	62.0
SW	8.9	8.1	.0	.0	.0	.0	.0	16.9	1.6	4.0	.0	.0	.0	.0	.0	78.2
W	1.9	7.5	.0	.0	.0	.0	.0	9.3	5.6	.0	.0	.0	.0	.0	.0	85.0
NW	7.1	6.6	.0	.0	.0	.0	.0	13.7	1.9	4.7	.9	.0	.0	.0	.0	81.6
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	5.9	.0	.0	.0	.0	.0	94.1
TOT PCT	5.8	6.2	.0	.0	.0	.0	.0	12.0	1.8	10.2	2.7	.0	.0	.0	.0	75.6
TOT OBS:	225															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
00&03	2.0	8.2	.0	.0	.0	.0	.0	10.2	2.0	.0	2.0	.0	.0	.0	.0	85.7
06&09	4.7	4.7	3.1	.0	.0	.0	.0	12.5	1.4	1.6	1.6	.0	.0	.0	.0	82.8
12&15	6.2	3.1	.0	.0	.0	.0	.0	9.2	1.5	16.9	1.5	.0	.0	.0	.0	72.3
18&21	13.0	11.7	.0	.0	.0	.0	.0	24.7	1.3	19.5	3.9	.0	.0	.0	.0	55.8
TOT PCT	7.1	7.1	.8	.0	.0	.0	.0	14.9	1.6	10.6	2.4	.0	.0	.0	.0	72.5
TOT OBS:	255															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.8	11.2	2.5	.0	.0	.0		16.5	7.2	17.7	20.0	10.4	14.0	15.9	40.0	23.0	17.4
NE	2.1	4.6	.3	.1	.0	.0		7.0	5.6	3.7	20.0	3.5	5.1	10.8	.0	10.0	8.1
E	1.6	1.6	.0	.1	.0	.0		3.3	4.7	.6	.0	5.7	2.2	5.5	10.0	2.0	1.7
SE	.6	1.9	.0	.0	.0	.0		2.6	5.4	2.2	.0	.7	5.1	3.8	10.0	2.2	2.3
S	1.9	2.3	.2	.0	.0	.0		4.4	4.9	2.2	.0	2.0	5.9	5.9	.0	6.5	4.7
SW	1.9	7.7	1.1	.0	.0	.0		10.7	6.7	14.3	20.0	10.7	12.5	8.5	20.0	10.0	8.1
W	2.7	13.1	1.4	.0	.0	.0		17.4	6.4	20.5	20.0	24.8	14.7	10.2	.0	16.1	16.9
NW	3.6	20.0	9.2	.0	.0	.0		28.8	7.5	29.8	20.0	35.4	31.6	23.3	20.0	21.2	33.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.4							9.4	.0	9.0	.0	6.7	8.8	16.1	.0	8.9	7.0
TOT OBS	164	386	67	1	0	0	618		6.1	89	5	135	68	118	5	112	86
TOT PCT	26.5	62.5	10.8	.2	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	7.7	8.5	.3	.0	.0		16.5	7.2	17.8	11.6	16.9	20.6
NE	5.3	1.5	.2	.1	.0		7.0	5.6	4.5	4.1	10.4	9.2
E	2.8	.5	.0	.1	.0		3.3	4.7	.5	4.6	5.7	1.9
SE	1.9	.7	.0	.0	.0		2.6	5.4	2.1	2.2	4.1	2.3
S	3.3	1.1	.0	.0	.0		4.4	4.9	2.1	3.3	5.7	5.7
SW	5.9	4.5	.2	.0	.0		10.7	6.7	14.6	11.3	8.9	9.2
W	11.3	5.6	.5	.0	.0		17.4	6.4	20.5	21.4	9.8	16.4
NW	13.9	14.0	.9	.0	.0		28.8	7.5	29.3	34.1	23.2	26.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	9.4						9.4	.0	8.5	7.4	15.4	8.1
TOT OBS	279	225	13	1	0	618		6.1	94	203	123	198
TOT PCT	61.3	36.4	2.1	.2	.0		100.0		100.0	100.0	100.0	100.0

MARCH

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1860-1973

AREA 0004 NORTHWEST JAVA SEA
3.6S 106.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	8.5	20.2	56.4	14.9	.0	.0	.0	6.8	100.0	94
06&09	7.4	22.2	61.6	8.9	.0	.0	.0	5.6	100.0	203
12&15	15.4	17.9	60.2	6.5	.0	.0	.0	5.0	100.0	12[illegible]
18&21	8.1	10.1	67.7	13.6	.5	.0	.0	6.9	100.0	198
TOT	58	106	386	67	1	0	0	6.1		618
PCT	9.4	17.2	62.5	10.8	.2	.0	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.9	5.3	6.1	6.1		5.2
NE	1.3	2.4	3.7	.5		4.7
E	.0	1.9	.0	.0		3.0
SE	.0	.0	2.1	.0		6.5
S	.0	2.1	1.3	.0		4.5
SW	1.1	1.1	7.2	5.3		6.5
W	.0	2.1	7.2	2.1		6.0
NW	1.1	5.3	10.6	8.2		5.9
VAR	.0	.0	.0	.0		.0
CALM	2.1	.0	8.5	1.1		5.3
TOT OBS	9	19	44	22	94	5.6
TOT PCT	9.6	20.2	46.8	23.4	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	9000+	NM <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.8	1.1	2.7	.8	.0	.8	.0	.0	15.4	
NE	.0	.0	.0	.0	2.7	.3	.0	.0	.0	.0	5.1	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	
SE	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	1.1	
S	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	2.7	
SW	.0	.0	.0	2.4	2.1	2.4	.0	.3	.0	.0	7.4	
W	.0	.0	.0	1.1	.8	.8	.0	.8	.0	.0	8.0	
NW	.0	.0	1.3	2.1	4.8	1.1	.0	.3	.0	.0	16.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	1.1	.0	1.1	.0	.0	.0	9.6	
TOT OBS	0	0	2	7	13	6	1	2	0	0	63	94
TOT PCT	.0	.0	2.1	7.4	13.8	6.4	1.1	2.1	.0	.0	67.0	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
* OR >3500	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
* OR >2000	8.2	9.3	9.3	9.3	9.3	9.3	9.3	9.3
* OR >1000	19.6	22.7	22.7	22.7	22.7	22.7	22.7	22.7
* OR >600	23.7	28.9	29.9	29.9	29.9	29.9	29.9	29.9
* OR >300	24.7	29.9	32.0	32.0	32.0	32.0	32.0	32.0
* OR >150	24.7	29.9	32.0	32.0	32.0	32.0	32.0	32.0
* OR > 0	24.7	29.9	32.0	32.0	32.0	32.0	32.0	32.0
TOTAL	24	29	31	31	31	31	31	31

TOTAL NUMBER OF OBS: 97 PCT FREQ NM <5/8: 68.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
1.0	9.8	30.4	17.6	8.8	7.8	7.8	4.9	11.8	.0	102

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1860-1973

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.6	.0	.0	.0	.0	.4	.0	.8	.0	.0	1.8	
2<5	NO PCP	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.6	.4	.0	.0	.0	.4	.0	.8	.0	.0	2.2	
	PCP	2.2	.4	.0	.0	.9	1.8	.7	1.6	.0	.0	7.6	
5<10	NO PCP	6.0	3.6	2.0	.4	1.3	5.4	5.4	7.3	.0	2.2	33.8	
	TOT %	8.2	4.0	2.0	.4	2.2	7.2	6.1	8.9	.0	2.2	41.3	
	PCP	.4	.0	.0	.4	.2	.1	.4	.9	.0	.0	2.7	
10+	NO PCP	11.8	4.7	1.6	3.1	3.0	6.0	5.3	13.0	.0	5.3	53.8	
	TOT %	12.2	4.7	1.6	3.6	3.3	6.1	5.8	13.9	.0	5.3	56.4	
	TOT OBS												225
	TOT PCT	21.0	9.1	3.6	4.0	5.6	13.8	11.9	23.6	.0	7.6	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.3	.3	.0		.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.3	.0	.0	.0	.0	.0	.3	.0	.3	.8	
2<5	4-10	.1	.0	.0	.0	.0	.3	.1	.3	.0		.8	
	11-21	.2	.0	.0	.0	.0	.0	.0	.3	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.3	.0	.0	.0	.3	.1	.9	.0	.3	2.2	
	0-3	1.2	.7	.5	.0	.5	.3	.3	.5	.0	1.4	5.5	
5<10	4-10	5.8	1.9	.7	.3	.8	3.5	3.6	4.5	.0		19.1	
	11-21	.4	.0	.0	.0	.0	1.0	.1	1.5	.0		3.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	5.9	2.6	1.2	.3	1.4	4.7	4.0	6.6	.0	1.4	27.6	
	0-3	1.2	1.1	.7	.4	1.9	1.5	1.2	1.2	.0	7.7	16.9	
10+	4-10	9.4	3.6	1.2	1.8	2.0	6.2	7.7	16.1	.0		48.1	
	11-21	1.2	.3	.0	.0	.3	.4	.7	2.0	.0		4.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	11.9	5.1	1.9	2.2	4.2	8.1	9.6	19.3	.0	7.7	69.9	
	TOT OBS												366
	TOT PCT	17.7	7.9	3.1	2.5	5.6	13.1	13.7	27.0	.0	9.3	100.0	

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1860-1973

AREA 0004 NORTHWEST JAVA SEA
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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	3.4	10.3	10.3	10.3	3.4	3.4	.0	.0	41.4	58.6	29
06&09	.0	.0	.0	15.0	15.0	5.0	.0	5.0	.0	.0	40.0	60.0	20
12&15	.0	.0	.0	.0	14.3	7.1	.0	.0	.0	.0	21.4	78.6	28
18&21	.0	.0	4.3	4.3	13.0	.0	.0	.0	.0	.0	21.7	78.3	23
TOT	0	0	2	7	13	6	1	2	0	0	31	69	100
PCT	.0	.0	2.0	7.0	13.0	6.0	1.0	2.0	.0	.0	31.0	69.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	6.1	19.7	74.2	66
06&09	.0	.0	.0	.0	33.6	66.4	107
12&15	.0	.0	.0	1.1	27.7	71.3	94
18&21	.0	.8	.0	2.3	35.2	61.7	128
TOT	0	1	0	8	120	266	395
PCT	.0	.3	.0	2.0	30.4	67.3	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	3.4	17.2	27.6	55.2	29
06&09	.0	.0	15.8	26.3	57.9	19
12&15	.0	.0	.0	22.2	77.8	27
18&21	.0	4.5	9.1	13.6	77.3	22
TOT	0	2	10	22	65	97
PCT	.0	2.1	10.3	22.7	67.0	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	.4	.0	.0	.0	1	.6
85/89	.0	.0	.0	.0	1.2	1.8	1.8	1.2	10	6.1
80/84	.0	.0	.0	.0	.0	20.6	53.9	10.3	140	84.8
75/79	.0	.0	.0	.0	.0	.6	1.8	6.1	14	8.5
TOTAL	0	0	0	0	3	38	95	29	165	100.0
PCT	.0	.0	.0	.0	1.8	23.0	57.6	17.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.6	.0	.0	.0	.0	.0	.0	.0	.0
1.2	.0	.6	.0	.?	.5	.5	.8	.0	2.4
20.2	8.2	2.9	2.7	5.9	9.2	8.5	20.6	.0	6.7
.8	.0	.0	.0	.5	2.7	2.9	1.7	.0	.0
22.1	8.8	3.5	2.7	6.4	12.6	11.8	23.0	.0	9.1

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	90	86	84	81	78	76	76	81.1	97
06&09	92	90	38	83	79	77	76	83.2	214
12&15	86	85	85	82	79	77	77	81.9	126
18&21	84	83	83	81	77	76	76	80.7	208
TOT	92	89	86	82	78	76	76	81.8	645

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-89	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	.0	23.5	61.8	14.7	84	34
06&09	.0	.0	10.0	30.0	50.0	10.0	81	50
12&15	.0	.0	.0	29.2	50.0	20.8	84	48
18&21	.0	.0	.0	10.0	65.0	25.0	87	60
TOT	0	0	5	43	109	35	84	192

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1860-1973

TABLE 17

AREA 0004 NORTHWEST JAVA SEA
3.6S 106.5E

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	N FOG	NO FOG
5	.0	.0	.5	.5	.5	3	.0	1.6
4	.0	.0	1.0	.5	.0	3	.0	1.6
3	.0	.0	1.6	.5	.0	4	.0	2.1
2	.0	.0	2.6	1.0	.0	7	.0	3.6
1	.0	.0	7.3	2.6	.0	19	.5	9.4
0	.0	2.1	10.4	2.6	.0	29	1.6	13.5
-1	.0	3.1	13.0	1.6	.0	34	.0	17.7
-2	.0	3.6	14.6	.0	.0	35	.5	17.7
-3	.0	5.2	8.3	.0	.0	26	.5	13.0
-4	.5	5.2	4.2	.0	.0	19	.0	9.9
-5	.5	3.1	.5	.0	.0	8	.0	4.2
-6	.0	1.0	1.0	.0	.0	4	.0	2.1
-7/-8		.0	.5	.0	.0	1	.0	.5
TOTAL	2	45	126	18	1	192	6	186
PCT	1.0	23.4	65.6	9.4	.5	100.0	3.1	96.9

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.9	7.7	.0	.0	.0	.0	10.6
1-2	.0	9.1	1.4	.0	.0	.0	10.6
3-4	.0	1.4	4.8	.0	.0	.0	6.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.9	18.3	6.3	.0	.0	.0	27.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	1.9	.0	.0	.0	.0	2.9
1-2	.0	.5	.0	.0	.0	.0	.5
3-4	.0	.5	.5	.0	.0	.0	1.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	2.9	.5	.0	.0	.0	4.3

E

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

SE

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

PERIOD: (OVER-ALL) 1963-1973

MARCH

TABLE 18 (CONT)

AREA 0004 NORTHWEST JAVA SEA
3.4S 106.5E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	1.9	2.4	.0	.0	.0	.0	4.3
1-2	.0	1.4	.0	.0	.0	.0	1.4	.0	10.1	.0	.0	.0	.0	10.1
3-4	.0	.0	.0	.0	.0	.0	.0	.0	4.8	.0	.0	.0	.0	4.8
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.4	.0	.0	.0	.0	1.4	1.9	17.3	.0	.0	.0	.0	19.2

	W							WW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.4	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	1.9	.0	.0	.0	.0	1.9	1.9	15.4	.5	.0	.0	.0	17.8	
3-4	.0	4.8	.0	.0	.0	.0	4.8	.0	1.9	4.3	.0	.0	.0	6.3	
5-6	.0	1.9	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.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	10.1	.0	.0	.0	.0	10.1	1.9	17.3	4.8	.0	.0	.0	24.0	88.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	18.9	13.2	.0	.0	.0	.0	32.1	
1-2	1.9	39.6	1.9	.0	.0	.0	43.4	
3-4	.0	13.2	9.4	.0	.0	.0	22.6	
5-6	.0	1.9	.0	.0	.0	.0	1.9	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	20.8	67.9	11.3	.0	.0	.0	100.0	53

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	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	16.5	31.6	15.2	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	51	2
6-7	.0	1.3	7.6	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	17.7	5.1	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	1
TOTAL	27	30	19	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	79	2
PCT	34.2	38.0	24.1	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1888-1971
(OVER-ALL) 1857-1971

AREA 0004 NORTHWEST JAVA SEA
3.6S 106.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	7.7	.0	.0	.0	.0	.0	7.7	.0	7.7	15.4	.0	.0		.0	69.2
NE	4.8	4.8	4.8	.0	.0	.0	.0	14.3	.0	14.3	.0	.0	.0		.0	71.4
E	4.3	4.3	.0	.0	.0	.0	.0	8.7	3.3	7.6	.0	.0	.0		.0	80.4
SE	.0	5.0	.0	.0	.0	.0	3.3	8.3	.8	4.2	.0	.0	.0		.0	86.7
S	3.6	5.4	.0	.0	.0	.0	.0	9.0	.0	3.6	.0	.0	.0		.0	87.4
SW	.0	.0	.0	.0	.0	.0	.0	.0	1.7	13.8	3.4	.0	.0		.0	81.0
W	.0	5.7	.0	.0	.0	.0	.0	5.7	5.7	.0	3.8	.0	.0		.0	84.9
NW	15.4	3.8	.0	.0	.0	.0	.0	19.2	15.4	.0	.0	.0	.0		.0	65.4
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	10.0	.0	.0	.0		.0	90.0
TOT PCT	2.5	4.4	.6	.0	.0	.0	.6	8.2	1.9	6.9	1.9	.0	.0		.0	81.1
TOT OBS:	159															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.8	5.6	.0	.0	.0	.0	.0	8.3	5.6	.0	.0	.0	.0		.0	86.1
06&09	4.3	4.3	.0	.0	.0	.0	2.2	10.9	4.3	4.3	.0	.0	.0		.0	80.4
12&15	.0	2.1	2.1	.0	.0	.0	.0	4.3	.0	6.4	2.1	.0	.0		.0	87.2
18&21	3.7	9.3	.0	.0	.0	.0	.0	13.0	.0	14.8	5.6	.0	.0		.0	66.7
TOT PCT	2.7	5.5	.5	.0	.0	.0	.5	9.3	2.2	7.1	2.2	.0	.0		.0	79.2
TOT OBS:	183															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.1	3.0	.9	.0	.0	.0		5.1	7.2	8.6	.0	6.5	3.3	4.4	.0	4.0	4.2
NE	1.3	5.9	.9	.0	.0	.0		8.0	6.9	7.1	11.1	7.3	3.3	7.7	10.0	12.6	8.5
E	4.5	10.8	1.6	.2	.0	.0		17.1	6.2	10.7	16.7	16.3	18.3	17.0	20.0	17.5	23.2
SE	2.7	12.6	1.4	.1	.0	.0		16.9	6.6	14.3	22.2	13.7	19.2	23.1	.0	19.3	14.1
S	1.9	7.1	1.8	.1	.0	.0		10.8	7.1	10.0	5.6	8.3	12.5	12.1	30.0	12.6	9.2
SW	2.9	7.2	1.8	.2	.0	.0		12.1	7.0	11.1	.0	13.3	15.8	13.2	20.0	9.2	10.6
W	1.1	7.0	1.0	.2	.0	.0		9.3	7.8	12.1	25.0	11.5	8.3	4.1	7.5	7.5	10.6
NW	1.5	6.2	.9	.0	.0	.0		8.6	6.8	14.6	8.3	11.5	2.4	3.0	2.5	6.9	12.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	11.9							11.9	.0	11.4	11.1	11.5	16.7	19.4	10.0	10.3	7.0
TOT OBS	154	315	55	4	0	0	528		6.0	70	9	130	60	91	10	87	71
TOT PCT	29.2	59.7	10.4	.8	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.4	2.7	.0	.0	.0		5.1	7.2	7.6	5.5	4.0	4.1
NE	4.5	3.1	.4	.0	.0		8.0	6.9	7.6	6.1	7.9	10.8
E	11.2	5.4	.6	.0	.0		17.1	6.2	11.4	17.0	17.3	20.1
SE	10.2	6.1	.6	.0	.0		16.9	6.6	15.2	15.4	20.8	16.9
S	6.1	4.5	.3	.0	.0		10.8	7.1	9.5	9.6	13.9	11.1
SW	6.5	5.4	.3	.0	.0		12.1	7.0	9.8	14.1	13.9	9.8
W	4.2	4.5	.6	.0	.0		9.3	7.8	13.6	10.5	4.5	8.9
NW	4.9	3.3	.4	.0	.0		8.6	6.8	13.9	8.7	3.0	9.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	11.9						11.9	.0	11.4	13.2	14.9	8.9
TOT OBS	327	185	16	0	0	528		6.0	79	190	101	158
TOT PCT	61.9	35.0	3.0	.0	.0		100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1888-1971
(OVER-ALL) 1857-1971

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	11.4	16.5	62.0	8.9	1.3	.0	.0	5.9	100.0	79
06&09	13.2	17.9	57.4	11.1	.5	.0	.0	6.1	100.0	190
12&15	14.9	16.8	57.4	10.9	.0	.0	.0	5.6	100.0	101
18&21	8.9	17.1	62.7	10.1	1.3	.0	.0	6.3	100.0	158
TOT	63	91	315	55	4	0	0	6.0		528
PCT	11.9	17.2	59.7	10.4	.8	.0	.0		100.0	

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	4.7	1.4		6.6
NE	1.4	6.8	2.7	1.4		4.1
E	7.1	1.4	6.4	1.4		4.2
SE	6.4	1.4	9.1	.0		4.0
S	.0	3.7	4.7	6.8		6.1
SW	.0	3.0	5.4	3.0		5.5
W	2.0	.0	5.1	3.7		5.8
NW	2.0	1.4	1.7	.0		3.3
VAR	.0	.0	.0	.0		.0
CALM	4.1	.0	4.1	.0		3.8
TOT OBS	17	13	31	13	74	4.8
TOT PCT	23.0	17.6	41.9	17.6	100.0	

TABLE 6

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

WIND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	2.7	.0	.0	.0	.0	.0	1.4	
NE	.0	.0	.0	1.4	2.7	.0	.0	.0	.0	.0	8.1	
E	.0	.0	.0	1.4	2.7	.0	.0	.0	.0	.0	12.2	
SE	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	16.6	
S	.0	.0	.0	.0	4.1	1.4	1.0	.0	.0	1.4	7.4	
SW	.0	.0	.0	1.4	3.0	1.4	.0	.0	.0	.0	5.7	
W	.0	.0	1.4	.0	4.7	.0	.0	.0	.0	.0	4.7	
NW	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	4.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	2.7	.0	.0	.0	.0	.0	5.4	
TOT OBS	0	0	1	3	17	2	1	0	0	1	49	74
TOT PCT	.0	.0	1.4	4.1	23.0	2.7	1.4	.0	.0	1.4	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) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
* OR >5000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
* OR >3500	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
* OR >2000	5.3	6.6	6.6	6.6	6.6	6.6	6.6	6.6
* OR >1000	23.7	27.6	28.9	28.9	28.9	28.9	28.9	28.9
* OR >600	26.3	31.6	32.9	32.9	32.9	32.9	32.9	32.9
* OR >300	27.6	32.9	34.2	34.2	34.2	34.2	34.2	34.2
* OR >150	27.6	32.9	34.2	34.2	34.2	34.2	34.2	34.2
* OR > 0	27.6	32.9	34.2	34.2	34.2	34.2	34.2	34.2
TOTAL	21	25	26	26	26	26	26	26

TOTAL NUMBER OF OBS: 76 PCT FREQ NH <5/8: 65.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
2.5	12.7	27.8	11.4	11.4	8.9	5.1	5.1	15.2	.0	79

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.5	.2	.0	.0	.6	
2<5	NO PCP	.0	.6	.0	.0	.0	.2	.5	.0	.0	.0	1.3	
	TOT %	.0	.6	.0	.0	.0	.2	.9	.2	.0	.0	1.9	
	PCP	.0	.0	1.3	1.6	1.6	.0	.0	.6	.0	.0	5.0	
5<10	NO PCP	4.1	4.4	7.2	6.3	6.6	3.5	1.9	.6	.0	.0	29.6	
	TOT %	4.1	4.4	8.5	7.9	8.2	3.5	1.9	1.3	.0	.0	34.6	
	PCP	.6	1.9	.0	.0	.0	.0	.0	.0	.0	.0	2.5	
10+	NO PCP	3.5	6.3	11.0	11.0	9.3	5.5	5.5	2.7	.0	6.3	61.0	
	TOT %	4.1	8.2	11.0	11.0	9.3	5.5	5.5	2.7	.0	6.3	63.5	
	TOT OBS												159
	TOT PCT	8.2	13.2	14.5	18.9	17.5	9.1	8.3	4.1	.0	6.3	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	
1/2<1	4-10	.0	.0	.0	.0	.0	.4	.0	.0	.0		.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.8	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	
2<5	4-10	.0	.4	.0	.0	.0	.1	.6	.1	.0		1.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.4	.0	.0	.0	.1	.6	.1	.0	.4	1.5	
	0-3	.4	.0	.0	.4	.9	.2	.2	.2	.0	.4	2.7	
5<10	4-10	2.1	2.3	1.7	4.5	2.7	1.9	.6	.9	.0		16.7	
	11-21	.4	.4	.8	.2	1.3	.0	.4	.0	.0		3.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	2.8	2.7	2.5	5.1	4.9	2.1	1.1	1.1	.0	.4	22.7	
	0-2	1.1	1.7	3.2	1.5	1.3	2.7	.9	1.1	.0	11.0	24.6	
10+	4-10	1.9	3.6	8.0	10.6	7.9	4.6	4.6	3.3	.0		44.7	
	11-21	.0	.8	.4	1.7	.8	1.7	.0	.4	.0		5.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	3.0	6.3	11.6	13.8	9.9	9.0	5.6	4.8	.0	11.0	75.0	
	TOT OBS												264
	TOT PCT	5.9	9.3	14.0	18.9	14.9	11.9	7.3	6.1	.0	11.7	100.0	

PERIOD: (PRIMARY) 1888-1971
(OVER-ALL) 1857-1971

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	.0	.0	41.2	.0	.0	.0	.0	.0	41.2	58.8	17
06E09	.0	.0	.0	4.8	19.0	4.8	4.8	.0	.0	.0	33.3	66.7	21
12E15	.0	.0	.0	4.3	13.0	4.3	4.3	.0	.0	.0	26.1	73.9	23
18E21	.0	.0	5.9	5.9	17.6	.0	.0	.0	.0	5.9	35.3	64.7	17
TOT	0	0	1	3	17	2	2	0	0	1	26	52	78
PCT	.0	.0	1.3	3.8	21.8	2.6	2.6	.0	.0	1.3	33.3	66.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.0	2.2	.0	4.3	21.7	71.7	46
06E09	.0	.0	.0	.0	26.7	73.3	75
12E15	.0	.0	.0	2.7	21.6	75.7	74
18E21	.0	1.1	.0	.0	31.2	67.7	93
TOT	0	2	0	4	75	207	288
PCT	.0	.7	.0	1.4	26.0	71.9	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	.0	6.3	37.5	56.3	16
06E09	.0	.0	4.8	28.6	66.7	21
12E15	.0	.0	4.7	21.7	69.6	23
18E21	.0	6.3	12.5	25.0	62.5	16
TOT	0	1	6	21	49	76
PCT	.0	1.3	7.9	27.6	64.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.9	.9	.0	.0	.0	2	1.7
85/89	.0	.0	.0	.0	2.6	7.8	4.3	.9	18	15.7
80/84	.0	.0	.0	.0	.9	28.7	42.6	7.8	92	80.0
75/79	.0	.0	.0	.0	.0	.0	2.6	.0	3	2.6
TOTAL	0	0	0	1	5	42	57	10	115	100.0
PCT	.0	.0	.0	.9	4.3	36.5	49.6	8.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.9	.0	.0	.0	.9	.0	.0	.0	.0	.0
2.2	1.3	1.7	3.9	.4	1.7	.4	1.3	.0	2.6
6.5	11.3	9.6	18.3	14.3	6.1	6.7	2.8	.0	4.3
.0	.9	.9	.0	.0	.2	.7	.0	.0	.0
9.6	13.5	12.2	22.2	15.7	8.0	7.8	4.1	.0	7.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	92	91	87	83	79	77	77	82.9	80
06E09	94	93	90	84	80	78	77	84.5	196
12E15	90	88	86	83	80	78	78	83.1	104
18E21	87	86	84	82	78	76	74	82.1	159
TOT	94	91	88	83	79	77	74	83.3	539

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	.0	57.1	33.3	9.5	81	21
06E09	.0	2.8	13.9	30.6	47.2	5.6	78	36
12E15	.0	.0	2.8	44.4	47.2	5.6	80	36
18E21	.0	.0	2.4	19.5	65.9	12.2	83	41
TOT	0	1	7	47	68	11	81	134

PERIOD: (PRIMARY) 1888-1971
(OVER-ALL) 1857-1971

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TABLE 17

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

AIR-SEA TMP DIF	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.7	.0	1	.0	.7
6	.0	.0	.7	2.0	.0	4	.0	2.6
4	.0	.0	2.0	.7	.0	4	.0	2.6
3	.0	.0	1.3	.0	.0	2	.0	1.3
2	.0	1.3	3.3	.7	.7	9	.0	6.0
1	.0	3.3	2.0	.0	.0	8	.0	5.3
0	.0	13.2	4.0	.0	.0	26	.7	16.6
-1	.0	13.2	2.0	.0	.0	23	.0	15.2
-2	.7	17.9	.0	.0	.0	28	.7	17.9
-3	2.6	6.6	.0	.0	.0	14	.7	8.6
-4	4.0	7.9	.0	.0	.0	18	.7	11.3
-5	.0	4.0	.0	.0	.0	6	.0	4.0
-6	.7	2.6	.0	.0	.0	5	.0	3.3
-7/-8	1.3	.7	.0	.0	.0	3	.0	2.0
TOTAL	14	107	23	6	1	151	4	147
PCT	9.3	70.9	15.2	4.0	.7	100.0	2.6	97.4

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

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

N

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

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.3	.0	.0	.0	.0	2.3
1-2	.0	9.1	2.3	.0	.0	.0	11.4
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	11.4	2.3	.0	.0	.0	13.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.3	.0	.0	.0	.0	2.3
1-2	.0	8.5	2.3	.0	.0	.0	10.8
3-4	.0	4.5	.0	.0	.0	.0	4.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	15.3	2.3	.0	.0	.0	17.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.3	.0	.0	.0	.0	2.3
1-2	2.3	10.2	2.3	.0	.0	.0	14.8
3-4	.0	2.3	.0	.0	.0	.0	2.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.3	14.8	2.3	.0	.0	.0	19.3

PERIOD: (OVER-ALL) 1963-1971

APRIL

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TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	.0	.0	.0	2.3
1-2	2.3	8.5	.0	.0	.0	.0	10.8	2.3	2.3	2.3	.0	.0	.0	6.8
3-4	.0	2.3	.0	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	.0	.0	2.3
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	2.3	10.8	.0	.0	.0	.0	13.1	2.3	4.5	4.5	.0	.0	.0	11.4

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	5.7	.0	.0	.0	.0	5.7	.0	1.1	.0	.0	.0	.0	1.1	
1-2	.0	4.0	.0	.0	.0	.0	4.0	.0	2.8	2.3	.0	.0	.0	5.1	
3-4	.0	.0	2.3	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	9.7	2.3	.0	.0	.0	11.9	.0	4.0	2.3	.0	.0	.0	6.3	95.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.5	15.2	.0	.0	.0	.0	21.7	
1-2	8.7	45.7	10.9	.0	.0	.0	65.2	
3-4	.0	8.7	2.2	.0	.0	.0	10.9	
5-6	.0	.0	2.2	.0	.0	.0	2.2	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	15.2	69.6	15.2	.0	.0	.0	100.0	46

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	21.5	47.7	9.2	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	53	2
6-7	.0	1.5	1.5	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	3
8-9	.0	1.5	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.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	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	9.2	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	0
TOTAL	29	33	9	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	2
PCT	30.8	50.8	13.8	4.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1907-1972
(OVER-ALL) 1858-1972

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	40.0	.0	.0	.0	.0	.0	.0	40.0	.0	33.3	.0	.0	.0	.0		40.0
NE	2.4	2.4	.0	.0	.0	.0	.0	4.8	.0	2.4	.0	.0	.0	.0		95.2
E	2.7	5.9	.0	.0	.0	.0	.0	8.7	3.2	6.4	.0	.0	.0	.0		83.6
SE	1.4	.7	.0	.0	.0	.0	.0	2.2	3.6	10.1	.0	.0	.0	.0		84.1
S	2.9	.0	3.8	.0	.0	.0	.0	6.7	.0	7.7	.0	.0	.0	.0		85.6
SW	6.1	24.5	.0	.0	.0	.0	.0	30.6	16.3	.0	.0	.0	.0	.0		53.1
W	38.5	.0	.0	.0	.0	.0	.0	38.5	.0	15.4	.0	.0	.0	.0		46.2
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.1	.0	.0	.0	.0		88.9
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	8.3	.0	.0	.0	.0		91.7
TOT PCT	4.6	4.0	.6	.0	.0	.0	.0	9.2	2.9	7.5	.0	.0	.0	.0		81.5
TOT OBS:	173															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	7.3	4.9	.0	.0	.0	.0	.0	12.2	2.4	.0	.0	.0	.0	.0		85.4
06&09	5.7	5.7	.0	.0	.0	.0	.0	11.4	5.7	.0	.0	.0	.0	.0		82.9
12&15	4.9	2.4	2.4	.0	.0	.0	.0	9.8	2.4	12.2	.0	.0	.0	.0		78.0
18&21	6.3	3.2	.0	.0	.0	.0	.0	9.5	1.6	12.7	.0	.0	.0	.0		77.8
TOT PCT	6.1	3.9	.6	.0	.0	.0	.0	10.6	2.8	7.2	.0	.0	.0	.0		80.6
TOT OBS:	180															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.7	2.3	.2	.0	.0	.0		3.1	6.1	4.3	.0	3.1	2.8	2.6	8.9	2.7	2.6
NE	2.0	6.7	.8	.0	.0	.0		9.6	5.8	11.4	.0	5.0	3.7	5.4	10.7	16.9	15.6
E	3.0	19.7	3.3	.0	.0	.0		26.0	7.2	26.2	45.0	25.2	28.7	27.7	25.0	23.9	24.7
SE	2.1	18.2	4.5	.0	.0	.0		24.8	7.7	18.5	25.0	27.7	33.3	29.2	25.0	22.8	18.2
S	2.1	8.4	1.1	.0	.0	.0		11.6	6.4	16.0	30.0	13.3	14.8	10.2	17.9	6.2	7.8
SW	1.9	4.4	1.4	.0	.0	.0		7.7	6.6	6.8	.0	12.3	8.3	4.5	3.6	6.5	6.5
W	.7	2.3	.7	.0	.0	.0		3.7	7.3	5.6	.0	3.8	.0	2.4	7.1	3.2	5.8
NW	.9	1.6	.1	.2	.0	.0		2.8	7.1	3.7	.0	1.9	.9	2.4	1.8	4.8	3.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.6							10.6	.0	7.4	.0	7.7	7.4	15.7	.0	12.9	15.6
TOT OBS	129	342	65	1	0	0	537		6.3	81	5	130	54	83	14	93	77
TOT PCT	24.0	63.7	12.1	.2	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.9	1.2	.0	.0	.0		3.1	6.1	4.1	3.0	3.4	2.6
NE	6.8	2.7	.0	.0	.0		9.6	5.8	10.8	4.6	6.2	16.3
E	12.0	13.7	.3	.0	.0		26.0	7.2	27.3	26.2	27.3	24.3
SE	11.5	12.5	.8	.0	.0		24.8	7.7	18.9	29.3	28.6	20.7
S	6.9	4.7	.0	.0	.0		11.6	6.4	16.9	13.7	11.3	6.9
SW	4.8	2.7	.2	.0	.0		7.7	6.6	6.4	11.1	4.4	6.5
W	1.7	2.0	.0	.0	.0		3.7	7.3	5.2	2.7	3.1	4.4
NW	1.7	.9	.0	.2	.0		2.8	7.1	3.5	1.6	2.3	4.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	10.6						10.6	.0	7.0	7.6	13.4	14.1
TOT OBS	311	218	7	1	0	537		6.3	86	184	97	170
TOT PCT	57.9	40.6	1.3	.2	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1907-1972
(OVER-ALL) 1858-1972

AREA 0004 NORTHWEST JAVA SEA
3.6S 106.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	7.0	16.3	65.1	10.5	1.2	.0	.0	6.7	100.0	86
06&09	7.6	13.6	66.3	12.5	.0	.0	.0	6.4	100.0	184
12&15	13.4	9.3	62.9	14.4	.0	.0	.0	6.1	100.0	97
18&21	14.1	14.1	60.6	11.2	.0	.0	.0	6.0	100.0	170
TOT	57	72	342	65	1	0	0	6.3		537
PCT	10.6	13.4	63.7	12.1	.2	.0	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	1.0	.0	1.3		5.8
NE	.7	2.0	4.3	.3		5.1
E	6.7	8.7	10.0	3.3		4.4
SE	6.0	8.7	12.7	1.7		4.7
S	1.3	6.0	8.3	.0		4.8
SW	.0	2.7	4.7	2.7		6.1
W	.0	.0	.0	1.3		8.0
NW	.0	.3	.0	.0		3.0
VAR	.0	.0	.0	.0		.0
CALM	1.3	1.3	1.3	1.3		5.0
TOT OBS	12	23	31	9	75	4.9
TOT PCT	16.0	30.7	41.3	12.0	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	1.0	
NE	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	6.7	
E	.0	.0	.0	1.3	4.3	.0	.0	.0	.0	.0	23.0	
SE	.0	.0	.0	1.3	4.3	1.3	.0	.0	.0	.0	22.0	
S	.0	.0	.0	1.0	2.7	1.0	.0	.0	.0	.0	11.0	
SW	.0	.0	.0	.3	2.7	.3	.0	.0	.0	.0	6.7	
W	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	2.7	.0	.0	.0	.0	.0	.0	2.7	
TOT OBS	0	0	0	5	13	2	0	0	0	0	55	75
TOT PCT	.0	.0	.0	6.7	17.3	2.7	.0	.0	.0	.0	73.3	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) • OR >10	• OR >5	• OR >2	• OR >1	• OR >1/2	• OR >1/4	• OR >ZERO	• OR >0
• OR >8500	.0	.0	.0	.0	.0	.0	.0	.0
• OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
• OR >3500	.0	.0	.0	.0	.0	.0	.0	.0
• OR >2000	1.3	2.6	2.6	2.6	2.6	2.6	2.6	2.6
• OR >1000	13.2	17.1	19.7	19.7	19.7	19.7	19.7	19.7
• OR >600	18.4	25.0	27.6	27.6	27.6	27.6	27.6	27.6
• OR >300	18.4	25.0	27.6	27.6	27.6	27.6	27.6	27.6
• OR >150	18.4	25.0	27.6	27.6	27.6	27.6	27.6	27.6
• OR > 0	18.4	25.0	27.6	27.6	27.6	27.6	27.6	27.6
TOTAL	14	19	21	21	21	21	21	21

TOTAL NUMBER OF OBS: 76 PCT FREQ NH <5/8: 72.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
3.3	8.9	30.0	17.8	10.0	8.9	9.6	8.9	6.7	.0	90

PERIOD: (PRIMARY) 1907-1972
(OVER-ALL) 1858-1972

TABLE 8

AREA 0004 NORTHWEST JAVA SEA
3.6S 106.3E

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	1.2	
	TOT %	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	1.2	
2<5	PCP	.6	.0	.0	.0	.0	.0	1.2	.0	.0	.0	1.7	
	NO PCP	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.6	
	TOT %	.6	.6	.0	.0	.0	.0	1.2	.0	.0	.0	2.3	
5<10	PCP	.3	.6	2.7	.4	1.0	1.6	.3	.0	.0	.0	6.9	
	NO PCP	.7	4.0	7.5	4.0	5.5	1.2	.6	.1	.0	2.9	26.6	
	TOT %	1.0	4.6	10.3	4.5	6.5	2.7	.9	.1	.0	2.9	33.5	
10+	PCP	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.6	
	NO PCP	.6	6.4	21.4	14.9	8.5	3.8	1.7	1.2	.0	4.0	62.4	
	TOT %	.6	6.4	21.4	14.9	8.5	4.3	1.7	1.2	.0	4.0	63.0	
	TOT OBS												173
	TOT PCT	2.2	12.1	31.6	19.9	15.0	7.1	3.8	1.3	.0	6.9	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.3	.0	.0	.0	.0	.0		.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.3	.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	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.3	.2	.5	.0	.0	.0	.0	.0		1.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.3	.2	.5	.0	.0	.0	.0	.0	.0	1.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.3	.3	.0	.0	.0	.0	.0	.0	.0		.7	
	11-21	.0	.0	.0	.0	.0	.0	.7	.0	.0		.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.3	.0	.0	.0	.0	.7	.0	.0	.0	1.4	
5<10	0-3	.0	.2	.3	.3	.8	.2	.2	.0	.0	1.7	3.7	
	4-10	.6	2.0	6.0	3.1	3.2	.7	.8	.1	.0		16.6	
	11-21	.0	.5	.3	.0	.4	.9	.0	.0	.0		2.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.6	2.7	6.9	3.5	4.5	1.8	1.0	.1	.0	1.7	22.7	
10+	0-3	.5	1.7	3.7	1.4	2.2	1.1	.3	.5	.0	7.5	19.0	
	4-10	.7	5.1	16.0	16.0	5.7	1.9	.8	.8	.0		47.1	
	11-21	.0	.5	2.5	4.2	.5	.8	.0	.0	.0		8.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	1.2	7.3	22.2	21.6	8.4	3.9	1.2	1.4	.0	7.5	74.6	
	TOT OBS												295
	TOT PCT	2.1	10.7	29.2	25.9	12.9	5.7	2.9	1.4	.0	9.2	100.0	

PERIOD: (PRIMARY) 1907-1972
(OVER-ALL) 1958-1972

AREA CODE NORTHWEST JAVA SEA
3.0S 106.5E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	4.0	20.0	.0	.0	.0	.0	.0	24.0	76.0	25
06&09	.0	.0	.0	6.7	6.7	13.3	.0	.0	.0	.0	26.7	73.3	15
12&15	.0	.0	.0	11.1	16.7	.0	.0	.0	.0	.0	27.8	72.2	18
18&21	.0	.0	.0	7.7	15.4	.0	.0	.0	.0	.0	23.1	76.9	26
TOT	0	0	0	6	13	2	0	0	0	0	21	63	84
PCT	.0	.0	.0	7.1	15.5	2.4	.0	.0	.0	.0	25.0	75.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	1.9	5.7	20.8	71.7	53
06&09	1.5	.0	.0	.0	26.2	72.3	65
12&15	.0	.0	1.4	1.4	20.5	76.7	73
18&21	.0	.0	.9	.9	25.2	73.0	111
TOT	1	0	3	5	71	222	302
PCT	.3	.0	1.0	1.7	23.5	73.5	100.0

TABLE 12

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

HOUR (GMT)	<150 <500YD	<600 <1	<1000 <3	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	13.6	13.6	72.7	22
06&09	.0	.0	6.7	20.0	73.3	15
12&15	.0	.0	12.5	18.8	68.8	16
18&21	.0	.0	8.7	17.4	73.9	23
TOT	0	0	8	13	55	76
PCT	.0	.0	10.5	17.1	72.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40- 9	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.0	.8	.0	.0	1	.8
85/89	.0	.0	.0	.0	2.9	9.2	5.4	.0	22	16.9
80/84	.0	.0	.0	.0	2.3	30.0	33.6	9.2	98	75.4
75/79	.0	.0	.0	.0	.0	.0	1.5	5.4	9	6.9
TOTAL	0	0	0	0	4	52	53	19	130	100.0
PCT	.0	.0	.0	.0	4.6	40.0	40.8	14.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.8	.0	.0	.0	.0	.0	.0	.0	.0
.4	1.2	7.5	1.9	5.5	.2	.0	.0	.0	2.3
1.7	11.2	21.9	15.4	9.2	5.0	4.6	1.7	.0	4.0
.4	.8	1.0	2.5	1.5	.8	.0	.0	.0	.0
2.5	13.8	30.4	19.8	14.2	6.0	4.6	1.7	.0	6.9

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	86	85	85	83	79	77	77	82.9	87
06&09	99	92	90	84	79	77	77	84.7	178
12&15	89	85	85	83	80	78	78	82.9	93
18&21	90	88	54	83	80	77	75	82.3	167
TOT	95	90	87	83	79	77	75	83.3	525

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	2.8	41.7	44.4	11.1	81	36
06&09	.0	.0	12.5	41.7	37.5	8.3	79	24
12&15	.0	.0	3.7	44.4	40.7	11.1	80	27
18&21	.0	.0	2.0	36.0	40.0	22.0	83	50
TOT	0	0	6	55	56	20	81	137

PERIOD: (PRIMARY) 1907-1972
(OVER-ALL) 1854-1972

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TABLE 17

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

AIR-SEA TMP DIF	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.7	1	.0	.7
6	.0	.7	.7	.0	2	.0	1.3
5	.0	.7	.7	.0	2	.0	1.3
4	.0	4.7	1.3	.0	9	.0	6.0
3	.0	3.4	4.0	.7	12	.0	8.1
2	1.3	14.8	6.0	.0	33	.0	22.1
1	.0	8.1	2.7	.0	16	.0	10.7
0	.0	17.4	.7	.0	27	.0	18.1
-1	2.0	8.7	1.3	.0	18	.0	12.1
-2	4.7	5.4	.0	.0	15	.0	10.1
-3	1.3	4.7	.0	.0	9	.0	6.0
-4	1.3	.0	.0	.0	2	.0	1.3
-5/-8	1.3	.7	.0	.0	3	.0	2.0
TOTAL	18	103	26	2	149	0	149
PCT	12.1	69.1	17.4	1.3	100.0		100.0

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

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

N

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

NE

1-3	4-10	11-21	22-33	34-47	48+	PCT
2.0	2.0	.0	.0	.0	.0	4.0
2.0	.5	.0	.0	.0	.0	2.5
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
4.0	2.5	.0	.0	.0	.0	6.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	4.0	2.0	.0	.0	.0	.0	6.0
1-2	.0	10.5	.0	.0	.0	.0	10.5
3-4	.0	7.5	2.0	.0	.0	.0	9.5
5-6	.0	2.0	.0	.0	.0	.0	2.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.0	22.0	2.0	.0	.0	.0	28.0

SE

1-3	4-10	11-21	22-33	34-47	48+	PCT
.0	8.0	.0	.0	.0	.0	8.0
.5	13.5	.0	.0	.0	.0	14.0
.0	.5	6.0	.0	.0	.0	6.5
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.5	22.0	6.0	.0	.0	.0	28.5

PERIOD: (OVER-ALL) 1963-1972

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TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.0	4.0	.0	.0	.0	.0	6.0
1-2	3.5	5.5	.0	.0	.0	.0	9.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	5.5	9.5	.0	.0	.0	.0	15.0

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.0	.0	.0	.0	.0	2.0
1-2	2.0	.0	2.0	.0	.0	.0	4.0
3-4	.0	.0	2.0	.0	.0	.0	2.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.0	2.0	4.0	.0	.0	.0	8.0

W

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

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.5	.0	.0	.0	.0	.5	
1-2	.0	2.0	.0	.0	.0	.0	2.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	2.5	.0	.0	.0	.0	2.5	90.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	19.6	19.6	.0	.0	.0	.0	39.2	
1-2	7.8	31.4	2.0	.0	.0	.0	41.2	
3-4	.0	7.8	9.8	.0	.0	.0	17.6	
5-6	.0	2.0	.0	.0	.0	.0	2.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	27.5	60.8	11.8	.0	.0	.0	100.0	51

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	22.4	39.5	11.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	56	2
6-7	.0	.0	7.9	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	15.8	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	0
TOTAL	29	30	16	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	76	1
PCT	38.2	39.5	21.1	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1912-1971
(OVER-ALL) 1856-1971

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
N	.0	22.0	.0	.0	.0	.0	.0	22.0	.0	.0	.0	.0	.0	.0		78.0
NE	10.8	10.8	.0	.0	.0	.0	.0	21.6	.0	.0	16.2	.0	.0	.0		62.2
E	.0	1.8	.0	.0	.0	.0	.0	1.8	1.3	3.5	2.6	.0	.0	.0		90.8
SE	5.9	2.6	.3	.0	.0	.0	.0	8.8	4.2	6.5	2.0	.0	.0	.0		81.0
S	13.2	.0	10.4	.0	.0	.0	.0	16.0	3.8	3.8	9.4	.0	.0	.0		70.8
SW	.0	.0	.0	.0	.0	.0	.0	.0	12.9	12.9	.0	.0	.0	.0		74.2
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
NW	.0	41.2	.0	.0	.0	.0	.0	41.2	.0	.0	.0	.0	.0	.0		58.8
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	4.6	4.1	1.5	.0	.0	.0	.0	9.1	3.0	4.6	3.6	.0	.0	.0		81.2
TOT OBS:	197															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
00003	4.4	6.9	2.2	.0	.0	.0	.0	13.6	4.4	2.2	2.2	.0	.0	.0		77.8
06009	7.7	.0	1.9	.0	.0	.0	.0	9.7	.0	3.8	1.9	.0	.0	.0		88.5
12015	4.5	4.5	2.3	.0	.0	.0	.0	9.1	6.8	6.8	2.3	.0	.0	.0		77.3
18021	3.1	4.7	.0	.0	.0	.0	.0	7.8	1.6	6.3	6.3	.0	.0	.0		79.7
TOT PCT	4.9	4.4	1.5	.0	.0	.0	.0	9.8	2.9	4.9	3.4	.0	.0	.0		81.0
TOT OBS:	205															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.7	2.0	.3	.0	.0	.0		3.0	6.6	2.2	.0	2.7	1.6	6.3	.0	3.4	2.0
NE	1.3	4.3	.8	.0	.0	.0		6.4	6.8	4.9	3.8	3.6	4.8	5.7	.0	10.3	10.0
E	2.7	19.5	5.1	.0	.0	.0		27.3	7.7	25.3	38.5	26.4	34.7	23.9	18.8	23.8	32.7
SE	2.7	28.4	7.5	.1	.0	.0		38.5	8.1	43.8	34.6	36.7	36.3	40.3	43.8	38.7	34.7
S	1.7	7.9	1.3	.1	.0	.0		11.1	7.4	10.5	7.7	12.6	13.3	12.5	12.5	9.4	8.7
SW	.6	4.0	.5	.0	.0	.0		5.2	6.9	6.8	.0	8.1	2.8	3.4	6.3	4.3	5.3
W	.1	1.3	.4	.0	.0	.0		1.8	8.5	1.2	.0	4.1	.0	.0	6.3	2.4	1.3
NW	.2	1.2	.2	.0	.0	.0		1.6	7.9	1.5	15.4	2.3	.0	2.3	.0	1.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.2							5.2	.0	3.7	.0	3.6	6.5	5.7	12.5	6.7	5.3
TOT OBS	82	372	67	1	0	0	542		7.3	81	13	111	62	88	8	104	75
TOT PCT	15.1	68.6	16.1	.2	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.4	1.6	.0	.0	.0		3.0	6.6	1.9	2.3	5.7	2.8
NE	3.4	3.0	.0	.0	.0		6.4	6.8	4.8	4.0	5.2	10.2
E	12.3	14.3	.6	.0	.0		27.3	7.7	27.1	29.3	23.4	27.5
SE	15.3	21.8	1.3	.1	.0		38.5	8.1	42.6	36.6	40.6	37.0
S	5.2	5.7	.1	.1	.0		11.1	7.4	10.1	12.9	12.5	9.1
SW	2.8	2.4	.0	.0	.0		5.2	6.9	5.9	6.2	3.6	4.7
W	.8	.6	.3	.0	.0		1.9	8.5	1.1	2.6	.5	2.0
NW	.6	1.0	.1	.0	.0		1.6	7.9	3.5	1.4	2.1	.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.2						5.2	.0	3.2	4.6	6.3	6.1
TOT OBS	25	274	13	1	0	542		7.3	94	173	96	179
TOT PCT	46.9	50.6	2.4	.2	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.2	9.6	67.0	19.1	1.1	.0	.0	7.9	100.0	94
06&09	4.6	9.2	70.5	15.6	.0	.0	.0	7.4	100.0	173
12&15	6.3	11.5	69.8	12.5	.0	.0	.0	6.7	100.0	96
18&21	6.1	10.1	67.0	16.8	.0	.0	.0	7.3	100.0	179
TOT	38	54	372	87	1	0	0	7.3		542
PCT	5.2	10.0	68.6	16.1	.2	.0	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.1	1.1	2.6	1.1		5.0
NE	.0	.9	1.1	1.1		6.3
E	9.9	8.2	4.3	3.1		3.5
SE	8.2	10.2	18.8	6.3		4.7
S	.0	1.1	3.1	6.3		6.7
SW	1.1	.0	1.1	2.6		5.8
W	.0	.0	1.1	.0		7.0
NW	.0	.0	.9	1.1		7.2
VAR	.0	.0	.0	.0		.0
CALM	.0	2.3	1.1	.0		3.6
TOT OBS	18	21	30	19	88	4.8
TOT PCT	20.5	23.9	34.1	21.6	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1	
NE	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	2.0	
E	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	23.0	
SE	.0	.0	.0	4.5	1.1	2.3	.3	.0	.0	.0	35.2	
S	.0	.0	.0	3.1	2.3	1.1	.9	.0	.0	.0	3.1	
SW	.0	.0	.0	2.6	1.1	.0	.0	.0	.0	.0	1.1	
W	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	
NW	.0	1.1	.3	.0	.0	.0	.0	.0	.0	.0	.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	
TOT OBS	0	1	1	12	4	3	1	1	0	0	65	88
TOT PCT	.0	1.1	1.1	13.6	4.5	3.4	1.1	1.1	.0	.0	73.9	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	1.1	1.1	1.1	1.1	1.1
* OR >3500	.0	1.1	1.1	2.2	2.2	2.2	2.2	2.2
* OR >2000	4.3	5.4	5.4	6.5	6.5	6.5	6.5	6.5
* OR >1000	8.7	9.8	9.8	10.9	10.9	10.9	10.9	10.9
* OR >600	18.5	22.8	22.8	25.0	25.0	25.0	25.0	25.0
* OR >300	19.6	23.9	23.9	26.1	26.1	26.1	26.1	26.1
* OR >150	19.6	23.9	25.0	27.2	27.2	27.2	27.2	27.2
* OR > 0	19.6	23.9	25.0	27.2	27.2	27.2	27.2	27.2
TOTAL	18	22	23	25	25	25	25	25

TOTAL NUMBER OF OBS: 92 PCT FREQ NH <5/8: 72.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
9.1	16.2	19.2	16.2	12.1	6.1	3.0	5.1	13.1 .0	99

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.5	
	NO PCP	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.5	
	TOT %	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	1.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5	
	NO PCP	.5	.0	.3	.3	.0	.0	.0	.0	.0	.0	1.0	
	TOT %	.5	.0	.3	.3	.0	.0	.0	.5	.0	.0	1.5	
5<10	PCP	.8	.5	.0	3.4	.6	.0	.0	.3	.0	.0	5.6	
	NO PCP	.8	2.3	7.9	11.2	6.3	1.5	.0	.5	.0	1.0	31.5	
	TOT %	1.5	2.8	7.9	14.6	7.0	1.5	.0	.8	.0	1.0	37.1	
10+	PCP	.4	.0	.5	.0	1.5	.0	.0	.1	.0	.0	2.5	
	NO PCP	2.8	1.4	20.3	23.5	4.9	2.4	.8	.6	.0	1.0	57.9	
	TOT %	3.2	1.4	20.8	23.5	6.5	2.4	.8	.9	.0	1.0	60.4	
	TOT OBS												197
	TOT PCT	5.2	4.7	28.9	38.8	13.5	3.9	.8	2.2	.0	2.0	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.5	1.5	.0	.0	.0	.0	.0		2.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.5	1.5	.0	.0	.0	.0	.0	.0	2.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.3	.0	.3	.0	.0	.0	.0	.0		.7	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.7	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.3	.0	.0	.0	.0	.0	.0	.3	.0		.7	
	11-21	.0	.0	.2	.2	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.0	.2	.2	.0	.0	.0	.3	.0	.0	1.0	
5<10	0-3	.0	.0	.2	.8	.7	.0	.0	.0	.0	1.0	2.6	
	4-10	1.0	1.8	3.4	6.0	3.5	1.0	.0	.5	.0		17.0	
	11-21	.0	.0	1.6	2.9	.5	.0	.0	.0	.0		5.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	1.0	1.8	5.2	9.7	4.7	1.0	.0	.5	.0	1.0	24.8	
10+	0-3	.2	.7	2.0	1.6	.7	.7	.0	.1	.0	3.3	9.2	
	4-10	2.0	1.9	16.1	23.0	4.5	2.7	.3	.5	.0		51.0	
	11-21	.5	.3	3.3	5.9	.7	.3	.2	.2	.0		11.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	2.7	2.9	21.4	30.5	6.0	3.7	.5	.7	.0	3.3	71.6	
	TOT OBS												306
	TOT PCT	4.0	5.0	27.3	42.2	10.8	4.7	.5	1.6	.0	4.2	100.0	

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	4.0	.0	4.0	4.0	4.0	4.0	.0	.0	.0	20.0	80.0	25
06&09	.0	.0	.0	11.5	3.8	3.8	.0	3.8	.0	.0	23.1	76.9	26
12&15	.0	.0	4.2	25.0	4.2	4.2	.0	.0	.0	.0	37.5	62.5	24
18&21	.0	.0	.0	18.8	4.5	4.5	.0	.0	.0	.0	22.7	77.3	22
TOT	0	1	1	13	4	4	1	1	0	0	25	72	97
PCT	.0	1.0	1.0	13.4	4.1	4.1	1.0	1.0	.0	.0	25.8	74.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	3.3	.0	1.6	1.6	21.3	72.1	61
06&09	.0	.0	1.3	.0	25.3	73.4	79
12&15	1.5	.0	.0	1.5	17.6	79.4	68
18&21	2.8	.0	.0	.9	31.8	64.5	107
TOT	6	0	2	3	79	225	315
PCT	1.9	.0	.6	1.0	25.1	71.4	100.0

TABLE 12

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

HOUR (GMT)	<150 <500YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	4.0	8.0	12.0	80.0	25
06&09	.0	.0	17.4	8.7	73.9	23
12&15	.0	4.3	30.4	8.7	60.9	23
18&21	.0	.0	19.0	9.5	71.4	21
TOT	0	2	17	9	66	92
PCT	.0	2.2	18.5	9.8	71.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	3.9	9.7	1.9	.6	25	16.1
80/84	.0	.0	.0	.0	3.9	26.5	34.2	9.0	114	73.5
75/79	.0	.0	.0	.0	.0	.6	5.2	4.5	16	10.3
TOTAL	0	0	0	0	12	57	64	22	155	100.0
PCT	.0	.0	.0	.0	7.7	36.8	41.3	14.2		

TABLE 1

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	3.7	7.6	3.5	.0	.0	.0	0	1.3
	4.7	4.7	21.5	30.8	7.7	2.1	.6	.8	.0	.6
	1.9	.6	.6	2.7	3.1	.6	.0	1.3	.0	.0
	6.0	5.3	25.8	41.1	14.4	2.7	.6	2.1	.0	1.9

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	88	86	85	82	7.	75	75	82.1	93
06&09	90	89	88	84	80	77	76	83.8	165
12&15	87	85	84	82	78	75	75	81.8	99
18&21	85	84	84	82	79	77	75	81.5	183
TOT	90	88	86	82	79	76	75	82.5	540

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	2.9	32.4	44.1	20.6	82	34
06&09	.0	.0	20.0	52.5	20.0	7.5	76	40
12&15	.0	.0	2.8	27.8	55.6	13.9	83	36
18&21	.0	.0	3.7	35.2	46.3	14.8	81	54
TOT	0	0	12	61	68	23	80	164

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TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
5	.0	.6	.6	.6	3	.0	1.7
4	.0	.0	.6	1.2	3	.0	1.7
3	.0	.0	.6	.0	1	.0	.6
2	.0	.0	3.5	4.1	13	.0	7.6
1	.0	.0	7.6	2.9	18	.0	10.5
0	.0	.0	16.3	9.5	34	3.5	16.3
-1	.0	.6	11.0	2.3	24	.6	13.4
-2	.0	1.7	9.3	1.2	21	.0	12.2
-3	.0	.0	4.1	.0	7	.0	4.1
-4	.0	3.5	8.1	.0	20	.0	11.6
-5	1.2	1.2	6.4	.0	15	.0	8.7
-6	.0	.0	1.2	.0	2	.0	1.2
-7/-8	.0	2.3	1.2	.0	6	.0	3.5
-9/-10	.6	1.2	.0	.0	3	.0	1.7
-11/-13	.6	.6	.0	.0	2	.0	1.2
TOTAL	4	20	121	27	172	7	165
PCT	2.3	11.6	70.3	15.7	100.0	4.1	95.9

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.6	.0	.0	.0	.0	1.6
1-2	.0	4.2	2.1	.0	.0	.0	6.3
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.7	2.1	.0	.0	.0	7.8

NE

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

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.1	6.3	.0	.0	.0	.0	8.3
1-2	.0	7.6	2.1	.0	.0	.0	9.9
3-4	2.1	1.6	.0	.0	.0	.0	3.6
5-6	.0	.0	3.1	.0	.0	.0	3.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.2	15.6	5.2	.0	.0	.0	25.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.1	2.1	.0	.0	.0	.0	4.2
1-2	2.1	18.8	2.1	.0	.0	.0	22.9
3-4	.0	6.8	6.8	.0	.0	.0	13.6
5-6	.0	.0	5.2	.0	.0	.0	5.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.2	27.1	14.1	.0	.0	.0	45.3

PERIOD: (OVER-ALL) 1963-1971

JUNE

AREA 0004 NORTHWEST JAVA SEA
3.6S 106.6E

TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.6	.0	.0	.0	.0	3.6	.0	4.7	.0	.0	.0	.0	4.7
3-4	.0	2.1	1.6	.0	.0	.0	3.6	.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	5.7	1.6	.0	.0	.0	7.3	.0	4.7	.0	.0	.0	.0	4.7

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.5	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	2.1	.0	.0	.0	.0	2.1	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	2.6	.0	.0	.0	.0	2.6	93.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	10.4	10.4	.0	.0	.0	.0	20.8	
1-2	2.1	41.7	6.3	.0	.0	.0	50.0	
3-4	2.1	10.4	8.3	.0	.0	.0	20.8	
5-6	.0	.0	8.3	.0	.0	.0	8.3	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								48
TOT PCT	14.6	62.5	22.9	.0	.0	.0	100.0	

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	7.2	34.8	30.4	5.8	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	55	3
6-7	.0	.0	4.3	1.4	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	5
8-9	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
10-11	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	8.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	0
TOTAL	11	24	24	6	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	69	3
PCT	15.9	34.8	34.8	8.7	5.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1905-1972
(OVER-ALL) 1857-1972

AREA 0004 NORTHWEST JAVA SEA
3.7S 106.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	FRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	27.3	.0	36.4	.0	.0	.0	.0	63.6	.0	.0	18.2	.0	.0		.0	18.2
NE	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.0	11.5	.0	.0		.0	86.5
E	.0	1.9	.0	.0	.0	.0	.0	1.9	2.2	5.6	6.3	.0	.0		.0	84.1
SE	.0	2.4	.0	.0	.0	.0	.0	2.4	.0	2.4	1.6	.0	.0		.0	93.6
S	11.9	.0	.0	.0	.0	.0	.0	11.9	.0	7.1	.0	.0	.0		.0	88.1
SW	26.8	.0	.0	.0	.0	.0	.0	26.8	19.5	12.2	.0	.0	.0		.0	53.7
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NW	20.0	.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0		.0	80.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	2.7	1.6	.5	.0	.0	.0	.0	4.8	2.1	4.3	4.3	.0	.0		.0	85.6
TOT OBS:	187															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	FRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	4.7	4.7	.0	.0	.0	.0	.0	9.3	7.0	2.3	7.0	.0	.0		.0	76.7
06&09	2.2	2.2	.0	.0	.0	.0	.0	4.3	.0	2.2	.0	.0	.0		.0	93.5
12&15	2.4	2.4	.0	.0	.0	.0	.0	4.9	2.4	.0	.0	.0	.0		.0	92.7
18&21	3.0	.0	1.5	.0	.0	.0	.0	4.5	.0	9.0	7.5	.0	.0		.0	80.6
TOT PCT	3.0	2.0	.5	.0	.0	.0	.0	5.6	2.0	4.1	4.1	.0	.0		.0	85.3
TOT OBS:	197															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.5	.6	.2	.0	.0	.0		1.2	5.8	1.4	.0	2.4	1.1	.0	.0	1.4	.6
NE	.7	3.6	1.0	.0	.0	.0		5.3	7.3	1.0	6.3	3.5	6.5	1.2	.0	12.5	7.7
E	2.3	26.1	10.9	.2	.0	.1		39.5	9.2	39.9	37.5	34.1	28.3	38.2	63.4	39.9	55.1
SE	1.2	24.6	10.4	.9	.0	.0		37.1	9.7	41.2	31.3	35.0	45.7	47.9	36.4	32.2	26.9
S	.6	5.6	.8	.0	.0	.0		7.0	6.8	5.4	6.3	9.3	8.7	7.1	.0	8.4	2.6
SW	.1	2.6	.7	.0	.0	.0		3.5	8.8	7.1	18.8	5.7	4.3	1.8	.0	.7	.0
W	.2	1.5	.2	.0	.0	.0		1.8	7.0	1.4	.0	5.1	.0	1.2	.0	.0	1.3
NW	.6	1.5	.1	.0	.0	.0		2.2	5.5	1.4	.0	2.7	3.3	2.4	.0	1.9	1.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.4							2.4	.0	1.4	.0	2.2	2.2	2.4	.0	2.9	3.8
TOT OBS	46	359	132	6	0	0	543		8.7	74	8	137	46	85	11	104	78
TOT PCT	8.5	66.1	24.3	1.1	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.8	.4	.0	.0	.0		1.2	5.8	1.2	2.0	.0	1.1
NE	2.7	2.5	.1	.0	.0		5.3	7.3	1.5	4.2	1.0	10.4
E	10.9	25.9	2.8	.0	.0		39.5	9.2	39.6	32.7	39.3	45.4
SE	10.3	22.8	4.0	.0	.0		37.1	9.7	40.2	37.7	46.6	29.9
S	4.1	2.9	.0	.0	.0		7.0	6.8	5.5	9.2	6.3	5.9
SW	1.1	2.2	.2	.0	.0		3.5	8.8	8.2	3.3	1.6	.4
W	.9	.9	.0	.0	.0		1.8	7.0	1.2	3.8	1.0	.5
NW	1.6	.6	.0	.0	.0		2.2	5.5	1.2	2.9	2.1	1.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.4						2.4	.0	1.2	2.2	2.1	3.3
TOT OBS	189	316	38	0	0	543		8.7	82	183	96	182
TOT PCT	34.5	58.2	7.0	.0	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1905-1972
(OVER-ALL) 1857-1972

AREA 0004 NORTHWEST JAVA SEA
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.2	3.7	64.6	26.8	3.7	.0	.0	9.8	100.0	82
06&09	2.2	7.7	59.6	30.6	.0	.0	.0	9.0	100.0	183
12&15	2.1	6.3	72.9	17.7	1.0	.0	.0	8.1	100.0	96
18&21	3.3	9.5	69.8	20.3	1.1	.0	.0	8.2	100.0	182
TOT	13	33	359	132	6	0	0	8.7		543
PCT	2.4	6.1	66.1	24.3	1.1	.0	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.8		8.0
NE	1.0	1.3	.3	.0		3.1
E	10.7	10.5	15.1	2.6		4.0
SE	8.7	11.7	15.3	1.8		4.2
S	1.0	2.0	.8	2.8		5.4
SW	.0	1.0	2.3	4.1		6.6
W	.0	.0	2.0	.0		7.0
NW	.0	.0	1.0	.3		6.4
VAR	.0	.0	.0	.0		.0
CALM	2.0	.0	1.0	.0		3.0
TOT OBS	23	26	37	12	98	4.4
TOT PCT	23.5	26.5	37.8	12.2	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	
NE	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	2.3	
E	.0	.0	.0	.0	2.6	4.3	2.0	.0	.0	.0	29.8	
SE	.0	.0	1.0	2.0	1.8	3.6	.0	1.0	.0	.0	28.1	
S	.0	.0	1.3	.0	.8	.8	.0	.0	.0	.0	3.8	
SW	.0	.0	.8	1.0	3.1	.3	.0	.0	.0	.0	2.3	
W	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	1.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	
TOT OBS	0	0	3	3	8	10	2	1	0	0	71	98
TOT PCT	.0	.0	3.1	3.1	8.2	10.2	2.0	1.0	.0	.0	72.4	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
* OR >3500	1.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
* OR >2000	9.7	12.6	12.6	12.6	12.6	12.6	12.6	12.6
* OR >1000	14.6	19.4	20.4	20.4	20.4	20.4	20.4	20.4
* OR >600	17.5	23.3	24.3	24.3	24.3	24.3	24.3	24.3
* OR >300	17.5	25.2	27.2	27.2	27.2	27.2	27.2	27.2
* OR >150	17.5	25.2	27.2	27.2	27.2	27.2	27.2	27.2
* OR > 0	17.5	25.2	27.2	27.2	27.2	27.2	27.2	27.2
TOTAL	16	26	28	28	28	28	28	28

TOTAL NUMBER OF OBS: 103 PCT FREQ NH <5/8: 72.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
6.3	15.2	16.8	19.6	18.8	7.1	9.8	4.5	6.3	.0	112

PERIOD: (PRIMARY) 1905-1972
(OVER-ALL) 1857-1972

AREA 0004 NORTHWEST JAVA SEA
3.7S 105.6E

TABLE A

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.5	.5	.0	.0	.0	.0	.0	.0	1.1	
	TOT %	.0	.0	.5	.5	.0	.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	.3	.3	.4	.7	.0	.0	.0	.0	1.6	
	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.3	.3	.4	.7	.0	.0	.0	.0	1.6	
5<10	PCP	.5	.0	.5	.5	.3	.8	.0	.0	.0	.0	2.7	
	NO PCP	.5	3.7	8.0	7.5	1.9	.8	.5	.0	.0	1.1	24.1	
	TOT %	1.1	3.7	8.6	8.0	2.1	1.6	.5	.0	.0	1.1	26.7	
10+	PCP	.4	.0	.0	.0	.0	.0	.0	.1	.0	.0	.5	
	NO PCP	.0	3.2	33.4	24.5	3.1	3.2	.5	.5	.0	1.6	70.1	
	TOT %	.4	3.2	33.4	24.5	3.1	3.2	.5	.7	.0	1.6	70.6	
	TOT OBS												187
	TOT PCT	1.5	7.0	42.8	33.3	5.6	5.9	1.1	.7	.0	2.7	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.4	.7	.0	.0	.0	.0	.0		1.1	
	11-21	.0	.0	.0	.4	.0	.0	.0	.0	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.4	1.1	.0	.0	.0	.0	.0	.0	1.5	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.4	.4	.0	.0	.0	.0	.0		.7	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.4	.4	.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	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.2	.2	.3	.5	.0	.0	.0		1.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.2	.2	.3	.5	.0	.0	.0	.0	1.1	
5<10	0-3	.5	.2	.2	.2	.0	.0	.0	.0	.0	.7	1.8	
	4-10	.2	2.0	5.3	3.5	1.3	.9	.4	.0	.0		13.5	
	11-2.	.0	.4	.4	2.5	.2	.2	.0	.0	.0		3.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.7	2.5	5.8	6.2	1.5	1.1	.4	.0	.0	.7	18.9	
10+	0-3	.0	.9	2.2	.7	.5	.0	.0	.0	.0	1.5	5.8	
	4-10	.3	3.3	24.6	20.0	1.9	1.1	.4	.5	.0		52.0	
	11-21	.0	.4	9.7	7.4	.9	1.3	.0	.0	.0		19.6	
	22+	.0	.0	.0	.4	.0	.0	.0	.0	.0		.4	
	TOT %	.3	4.5	36.5	28.5	3.4	2.4	.4	.5	.0	1.5	77.8	
	TOT OBS												275
	TOT PCT	1.0	7.1	62.3	36.3	5.1	3.9	.7	.5	.0	2.2	100.0	

JULY

PERIOD: (PRIMARY) 1905-1972
(OVER-ALL) 1857-1972

AREA 0004 NORTHWEST JAVA SEA
3.7S 106.6E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00803	.0	.0	.0	7.4	18.5	14.8	.0	.0	.0	.0	40.7	59.3	27
06809	.0	.0	.0	3.3	6.7	13.3	3.3	.0	.0	.0	26.7	73.3	30
12815	.0	.0	8.3	.0	.0	.0	.0	4.2	.0	.0	12.5	87.5	24
18821	.0	.0	3.3	3.3	3.3	6.7	3.3	.0	.0	.0	20.0	80.0	30
TOT	0	0	3	4	8	10	2	1	0	0	28	83	111
PCT	.0	.0	2.7	3.6	7.2	9.0	1.8	.9	.0	.0	25.2	74.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00803	1.9	1.9	.0	3.8	20.8	71.7	53
06809	1.6	.0	.0	.0	23.0	75.4	61
12815	1.6	.0	.0	.0	17.5	81.0	63
18821	.9	.9	.0	.9	17.0	79.6	108
TOT	4	2	0	3	55	221	285
PCT	1.4	.7	.0	1.1	19.3	77.5	100.0

TABLE 12

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

HOUR (GMT)	<150 <500YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00803	.0	.0	12.0	32.0	56.0	25
06809	.0	.0	3.6	25.0	71.4	28
12815	.0	9.1	9.1	4.5	86.4	22
18821	.0	3.6	7.1	14.3	78.6	28
TOT	0	3	8	20	75	103
PCT	.0	2.9	7.8	19.4	72.8	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	.7	.0	.0	1	.7
85/89	.0	.0	.0	.0	2.1	4.3	.0	.0	9	6.4
80/84	.0	.0	.0	.0	1.4	40.0	40.0	2.9	118	84.3
75/79	.0	.0	.0	.0	.0	.7	5.0	2.1	11	7.9
70/74	.0	.0	.0	.0	.0	.0	.7	.0	1	.7
TOTAL	0	0	0	0	3	64	64	7	140	100.0
PCT	.0	.0	.0	.0	3.6	45.7	45.7	5.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	.5	.2	.0	.0	.0	.0
	.0	.7	2.7	2.3	.0	.7	.0	.0	.0	.0
	.7	6.1	36.8	30.9	3.8	.4	1.4	.7	.0	3.6
	1.3	.0	.0	.7	1.8	3.9	.0	.2	.0	.0
	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0
	2.0	6.8	39.5	33.9	6.1	5.9	1.4	.9	.0	3.6

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00803	88	87	85	82	77	73	73	81.8	81
06809	91	90	87	83	79	76	76	83.0	180
12815	85	84	84	82	79	76	76	81.5	96
18821	87	84	83	82	80	77	77	81.5	188
TOT	91	88	85	82	79	76	73	82.1	545

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00803	.0	.0	3.0	42.4	48.5	6.1	79	33
06809	.0	.0	5.7	60.0	28.6	5.7	78	35
12815	.0	.0	.0	44.8	48.3	6.9	81	29
18821	.0	.0	3.8	32.1	62.3	1.9	80	53
TOT	0	0	5	65	73	7	80	150

PERIOD: (PRIMARY) 1965-1972
(OVER-ALL) 1857-1972

TABLE 17

AREA 0004 NORTHWEST JAVA SEA
3.7S 106.6E

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
6	.0	.0	1.2	.0	.0	2	.0	1.2
5	.0	.0	.0	.6	.6	2	.0	1.2
4	.0	.0	.5	3.0	.0	6	.0	3.6
2	.6	.0	6.7	.0	.0	12	.0	7.3
1	.0	.0	6.7	1.8	.0	14	.6	7.9
0	.0	.0	17.6	1.2	.0	31	1.8	17.0
-1	.0	.6	16.2	1.2	.0	33	1.8	18.2
-2	.0	4.2	13.9	.0	.0	30	.0	18.2
-3	.0	3.0	5.5	.0	.0	14	.0	8.5
-4	.0	3.6	3.6	.0	.0	12	.0	7.3
-5	.0	.0	1.8	.0	.0	3	.0	1.8
-6	.6	.0	.0	.0	.0	1	.0	.6
-7/-8	1.2	1.2	.0	.0	.0	4	.0	2.4
-9/-10	.6	.0	.0	.0	.0	1	.0	.6
TOTAL	5	21	125	13	1	165	7	158
PCT	3.0	12.7	75.8	7.9	.6	100.0	4.2	95.8

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

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

N

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

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5
1-2	.0	.5	1.3	.0	.0	.0	2.3
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.9	1.8	.0	.0	.0	2.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.8	4.5	.0	.0	.0	.0	6.4
1-2	.0	9.5	1.8	.0	.0	.0	11.4
3-4	.0	6.4	15.0	.0	.0	.0	21.4
5-6	.0	.0	3.2	.0	.0	.0	3.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.8	20.5	20.0	.0	.0	.0	42.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	5.9	.0	.0	.0	.0	5.9
1-2	.0	11.8	1.8	.0	.0	.0	13.6
3-4	.0	5.0	3.2	1.8	.0	.0	10.0
5-6	.0	.0	4.1	.0	.0	.0	4.1
7	.0	.0	1.8	.0	.0	.0	1.8
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	22.7	10.9	1.8	.0	.0	>5.5

PERIOD: (OVER-ALL) 1963-1972

JULY

TABLE 18 (CONT)

AREA 0004 NORTHWEST JAVA SEA
3.7S 106.6E

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

S

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

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	6.4	.0	.0	.0	.0	6.4
3-4	.0	.0	1.8	.0	.0	.0	1.8
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.4	1.8	.0	.0	.0	8.2

W

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

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.5	.0	.0	.0	.0	.5	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.5	.0	.0	.0	.0	.5	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	5.3	12.3	.0	.0	.0	.0	17.5	
1-2	1.8	31.6	5.3	.0	.0	.0	38.6	
3-4	.0	14.0	19.3	1.8	.0	.0	35.1	
5-6	.0	.0	7.0	.0	.0	.0	7.0	
7	.0	.0	1.8	.0	.0	.0	1.8	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.0	57.9	33.3	1.8	.0	.0	100.0	57

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	9.1	27.3	22.1	9.1	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	53	3
6-7	.0	.0	7.8	6.5	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	4
8-9	.0	1.3	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	7.8	3.9	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	1
TOTAL	13	25	24	12	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	77	%
PCT	16.9	32.5	31.2	15.6	1.3	1.3	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1906-1972
(OVER-ALL) 1858-1972

AREA 0004 NORTHWEST JAVA SEA
3.6S 106.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	98.0
E	1.0	.7	.0	.0	.0	.0	.0	1.7	.0	1.4	.0	.0	1.4		.0	95.5
SE	2.5	.5	.0	.0	.0	.0	.0	3.0	1.0	2.0	1.0	.0	.0		.0	92.9
S	9.7	.0	.0	.0	.0	.0	.0	9.7	.0	.0	.0	.0	.0		.0	90.3
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	2.0	.5	.0	.0	.0	.0	.0	2.5	.5	1.5	1.0	.0	.5		.0	94.0
TOT OBS:	201															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.0	2.0	.0	.0	.0	.0	.0	4.0	2.0	2.0	.0	.0	2.0		.0	90.0
06&09	4.3	2.1	.0	.0	.0	.0	.0	6.4	.0	.0	.0	.0	.0		.0	93.6
12&15	4.3	2.1	.0	.0	.0	.0	.0	6.4	.0	2.1	2.1	.0	.0		.0	89.4
18&21	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	1.5	.0	1.5		.0	95.5
TOT PCT	2.4	1.4	.0	.0	.0	.0	.0	3.8	.9	1.4	.9	.0	.9		.0	92.4
TOT OBS:	211															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.2	.7	.0	.0	.0	.0		.8	5.6	.0	.0	.8	.0	1.1	.0	1.3	1.0
NE	1.1	4.5	1.0	.0	.0	.0		6.6	7.5	3.9	3.3	2.0	.0	8.5	.0	12.8	10.8
E	1.7	23.2	9.0	.0	.0	.0		34.0	8.7	31.7	23.3	29.3	28.6	35.1	40.0	42.0	35.8
SE	2.5	29.7	15.2	.3	.0	.0		47.8	9.4	54.5	70.0	51.4	65.9	43.1	60.0	34.2	41.5
S	.7	5.4	.6	.0	.0	.0		6.7	6.7	4.9	3.3	8.3	5.6	11.2	.0	4.6	6.7
SW	.0	.7	.7	.2	.0	.0		1.6	12.5	1.4	.0	3.5	.0	1.1	.0	1.7	1.0
W	.2	.4	.2	.0	.0	.0		.8	7.7	2.0	.0	1.6	.0	.0	.0	.8	.0
NW	.2	.5	.0	.0	.0	.0		.5	4.0	.0	.0	1.6	.0	.0	.0	.8	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3							1.3	.0	1.1	.0	1.6	.0	.0	.0	1.7	3.1
TOT OBS	48	399	164	3	0	0	614		8.7	89	15	127	63	94	10	119	97
TOT PCT	7.8	65.0	26.7	.5	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.6	.2	.0	.0	.0		.8	5.6	.5	.5	1.0	1.2
NE	2.8	3.6	.2	.0	.0		6.6	7.5	3.8	1.3	7.7	11.9
E	10.4	23.0	.6	.0	.0		34.0	8.7	30.5	29.1	35.6	39.2
SE	12.8	32.0	3.0	.0	.0		47.8	9.4	50.7	56.2	44.7	37.5
S	3.7	3.0	.0	.0	.0		6.7	6.7	4.6	7.4	10.1	5.6
SW	.3	.8	.5	.0	.0		1.6	12.5	1.2	2.4	1.0	1.4
W	.3	.4	.0	.0	.0		.8	7.7	1.7	1.1	.0	.5
NW	.5	.0	.0	.0	.0		.5	4.0	.0	1.1	.0	.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.3						1.3	.0	1.0	1.1	.0	2.3
TOT OBS	201	387	26	0	0	614		8.7	104	190	104	216
TOT PCT	32.7	63.0	4.2	.0	.0		100.0		100.0	100.0	100.0	100.0

AUGUST

PERIOD: (PRIMARY) 1906-1972
(OVER-ALL) 1858-1972

AREA 0004 NORTHWEST JAVA SEA
3.6S 106.6E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.0	9.6	67.3	22.1	.0	.0	.0	8.2	100.0	104
06&09	1.1	6.8	54.7	37.4	.5	.0	.0	9.5	100.0	190
12&15	.0	3.8	69.2	26.9	.0	.0	.0	8.8	100.0	104
18&21	2.3	6.0	71.3	19.4	.9	.0	.0	8.2	100.0	216
TOT	8	40	399	164	3	0	0	8.7		614
PCT	1.3	6.5	65.0	26.7	.5	.0	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.0		.0
NE	1.4	1.1	1.4	.0		3.5
E	12.4	8.0	16.2	1.9		3.9
SE	12.9	17.6	16.8	3.6		4.0
S	1.9	.8	1.9	.0		4.0
SW	.0	.0	.0	1.1		8.0
W	.0	.0	.0	.0		.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	1.1	.0	.0	.0		1.0
TOT OBS	27	25	33	6	91	3.9
TOT PCT	29.7	27.5	36.3	6.6	100.0	

TABLE 6

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

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.3	.5	.0	.0	.0	.0	.0	3.0	
.0	.0	.0	1.6	1.6	.0	.0	1.1	.0	.0	34.1	
.0	.0	.0	4.7	1.1	.3	2.2	.0	.0	2.2	40.4	
.0	.0	.0	.0	1.1	.8	.0	.0	.0	.0	2.7	
.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	
0	0	0	6	4	1	3	1	0	2	74	91
.0	.0	.0	6.6	4.4	1.1	3.3	1.1	.0	2.2	81.3	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >5OYD	* OR >0
* OR >6500	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
* OR >5000	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
* OR >3500	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
* OR >2000	6.7	7.9	7.9	7.9	7.9	7.9	7.9	7.9
* OR >1000	11.2	12.4	12.4	12.4	12.4	12.4	12.4	12.4
* OR >600	16.9	19.1	19.1	19.1	19.1	19.1	19.1	19.1
* OR >300	16.9	19.1	19.1	19.1	19.1	19.1	19.1	19.1
* OR >150	16.9	19.1	19.1	19.1	19.1	19.1	19.1	19.1
* OR > 0	16.9	19.1	19.1	19.1	19.1	19.1	19.1	19.1
TOTAL	15	17	17	17	17	17	17	17

TOTAL NUMBER OF OBS: 89 PCT FREQ NH <5/8: 80.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
14.0	12.9	22.6	20.4	10.8	5.4	2.2	9.7	2.2	.0	93

PERIOD: (PRIMARY) 1906-1972
(OVER-ALL) 1854-1972

AREA 0004 NORTHWEST JAVA SEA
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.5	
	NO PCP	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.5	
	TOT %	.0	.0	.5	.5	.0	.0	.0	.0	.0	.0	1.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	PCP	.0	.0	.5	.5	.4	.0	.0	.0	.0	.0	1.5	
	NO PCP	.8	3.8	7.8	10.3	.5	.5	.0	.0	.0	1.0	24.6	
	TOT %	.8	3.8	8.4	10.8	.9	.5	.0	.0	.0	1.0	26.1	
10+	PCP	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	3.4	27.6	36.8	3.0	.5	.5	.0	.0	.5	72.4	
	TOT %	.0	3.4	27.6	37.3	3.0	.5	.5	.0	.0	.5	72.9	
	TOT OBS												199
	TOT PCT	.8	7.2	36.6	48.6	3.9	1.0	.5	.0	.0	1.5	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3	
	4-10	.0	.0	.0	.3	.0	.0	.0	.0	.0		.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.6	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.3	.0	.0	.0	.0	.0		.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
5<10	0-3	.3	.9	.2	.2	.0	.0	.0	.0	.0	.6	2.2	
	4-10	.2	1.1	3.2	4.3	.5	.0	.0	.0	.0		9.3	
	11-21	.0	.3	2.2	3.4	.0	.3	.0	.0	.0		6.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.5	2.3	5.5	7.9	.5	.3	.0	.0	.0	.6	17.6	
10+	0-3	.0	.0	.3	2.5	.3	.0	.0	.0	.0	.6	3.7	
	4-10	.2	4.4	23.1	26.0	3.1	.0	.3	.3	.0		57.4	
	11-21	.0	.5	6.3	13.0	.3	.3	.0	.0	.0		20.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	4.9	29.8	41.4	3.7	.3	.3	.3	.0	.6	81.5	
	TOT OBS												324
	TOT PCT	.6	7.2	35.6	49.9	4.2	.6	.3	.3	.0	1.2	100.0	

AUGUST

PERIOD: (PRIMARY) 1906-1972
(OVER-ALL) 1858-1972

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00803	.0	.0	.0	10.7	3.6	.0	3.6	3.6	.0	3.6	25.0	75.0	28
06809	.0	.0	.0	10.5	.0	.0	5.3	.0	.0	.0	15.8	84.2	19
12815	.0	.0	.0	4.5	9.1	4.5	4.5	.0	.0	.0	22.7	77.3	22
18821	.0	.0	.0	.0	4.3	.0	.0	.0	.0	4.3	8.7	91.3	23
TOT	0	0	0	6	4	1	3	1	0	2	17	75	92
PCT	.0	.0	.0	6.5	4.3	1.1	3.3	1.1	.0	2.2	18.5	81.5	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
00803	.0	.0	1.5	1.5	15.2	81.8	66
06809	.0	.0	1.3	.0	20.3	78.5	79
12815	.0	.0	.0	.0	20.0	80.0	70
18821	.0	.0	.8	.0	21.0	78.2	119
TOT	0	0	3	1	65	265	334
PCT	.0	.0	.9	.3	19.5	79.3	100.0

TABLE 12

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

HOUR (GMT)	<150 <500YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00803	.0	.0	10.7	14.3	75.0	28
06809	.0	.0	10.5	5.3	84.2	19
12815	.0	.0	4.8	19.0	76.2	21
18821	.0	.0	.0	9.5	90.5	21
TOT	0	0	6	11	72	89
PCT	.0	.0	6.7	12.4	80.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	9.3	2.0	2.0	.0	11	7.3
80/84	.0	.0	.0	.0	3.3	36.7	39.3	7.3	130	86.7
75/79	.0	.0	.0	.0	.0	2.0	.7	3.3	9	6.0
TOTAL	0	0	0	0	10	61	63	16	150	100.0
PCT	.0	.0	.0	.0	6.7	40.7	42.0	10.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.7	.0	2.2	4.5	.0	.0	.0	.0	.0	.0
	.3	7.0	31.0	40.7	4.3	1.3	.0	.0	.0	2.0
	.0	1.0	1.5	3.0	.5	.0	.0	.0	.0	.0
	1.0	8.0	34.7	48.2	4.8	1.3	.0	.0	.0	2.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00803	88	66	85	82	79	77	77	81.9	106
06809	89	88	87	83	79	75	76	82.9	190
12815	85	84	83	82	80	78	78	81.5	105
18821	84	83	82	81	79	77	73	81.1	217
TOT	89	87	85	82	79	78	73	81.8	618

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00803	.0	.0	.0	43.2	40.5	16.2	82	37
06809	.0	.0	27.3	39.4	18.2	15.2	76	33
12815	.0	.0	2.8	41.7	44.4	11.1	81	36
18821	.0	.0	.0	37.0	53.7	9.3	82	54
TOT	0	0	10	64	66	20	80	160

PERIOD: (PRIMARY) 1906-1972
(OVER-ALL) 1658-1972

TABLE 17

AREA 0004 NORTHWEST JAVA SEA
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PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
9/10	.0	.0	.6	.0	1	.0	.6
7/8	.0	.0	.0	.6	1	.0	.6
5	.0	.0	1.2	.0	2	.0	1.2
4	.0	.6	2.3	.0	5	.0	2.9
3	.0	1.8	2.3	.0	7	.0	4.1
2	.0	3.5	1.2	.0	8	.0	4.7
1	.6	11.1	.0	.0	20	.0	11.7
0	1.8	21.6	.0	.0	40	.0	23.4
-1	2.3	14.6	.0	.0	29	.0	17.0
-2	2.9	17.5	.0	.0	35	.0	20.5
-3	.6	5.3	.0	.0	10	.0	5.8
-4	2.9	1.8	.0	.0	8	.0	4.7
-5	1.2	.6	.0	.0	3	.0	1.8
-6	1.2	.0	.0	.0	2	.0	1.2
TOTAL	23		13			0	171
		134		1	171		
PCT	13.5	78.4	7.6	.6	100.0		100.0

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

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

N

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

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	.0	2.3	.0	.0	.0	.0	2.3
3-4	.0	.4	.0	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.5	.0	.0	.0	.0	3.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.3	.0	.0	.0	.0	2.3
1-2	.0	14.5	6.6	.0	.0	.0	21.1
3-4	.0	8.2	8.2	.0	.0	.0	16.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	25.0	14.8	.0	.0	.0	39.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	3.1	1.6	.0	.0	.0	.0	4.7
1-2	1.6	14.8	10.5	.0	.0	.0	27.0
3-4	.0	5.5	5.9	.0	.0	.0	11.3
5-6	.0	1.6	4.7	.0	.0	.0	6.3
7	.0	.0	1.6	.0	.0	.0	1.6
8-9	.0	.0	1.6	.0	.0	.0	1.6
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.7	23.4	24.2	.0	.0	.0	52.3

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PERIOD: (OVER-ALL) 1963-1972 — AREA 0004 NORTHWEST JAVA SEA 3.6S 106.6E

TABLE 18 (CONT)

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

S

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

SW

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

W

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

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TGT OBS
<1	4.6	4.6	.0	.0	.0	.0	9.2	
1-2	1.5	32.3	16.9	.0	.0	.0	50.8	
3-4	.0	15.4	15.4	.0	.0	.0	30.8	
5-6	.0	1.5	4.6	.0	.0	.0	6.2	
7	.0	.0	1.5	.0	.0	.0	1.5	
8-9	.0	.0	1.5	.0	.0	.0	1.5	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.2	53.8	40.0	.0	.0	.0	100.0	65

PERIOD: (OVER-ALL) 1969-1972

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	4.6	26.4	25.3	9.2	1.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	59	3
6-7	.0	5.7	10.3	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	3
8-9	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	3
>13	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDET	2.3	2.3	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	2
TOTAL	6	32	34	10	4	0	1	0	0	0	0	0	0	0	0	0	0	0	0	87	3
PCT	6.9	36.8	39.1	11.5	4.6	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1906-1971
(OVER-ALL) 1854-1971

AREA 0004 NORTHWEST JAVA SEA
3.6S 106.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NE	5.6	.0	.0	.0	.0	.0	.0	5.6	.0	5.6	5.6	.0	.0		.0	83.1
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	3.4		.0	95.2
SE	1.4	1.4	.0	.0	.0	.0	.0	2.8	1.4	4.5	1.4	.0	1.7		.0	88.1
S	6.3	12.5	3.1	.0	.0	.0	.0	21.9	.0	.0	.0	.0	.0		.0	78.1
SW	14.8	.0	7.4	.0	.0	.0	.0	22.2	.0	14.8	.0	.0	.0		.0	63.0
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	100.0	.0		.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	2.3	1.7	.6	.0	.0	.0	.0	4.7	.6	3.5	1.2	.6	1.7		.0	87.8
TOT OBS:	172															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	5.1	5.1	.0	.0	.0	.0	.0	10.3	.0	.0	2.6	.0	.0		.0	87.2
06&09	2.6	.0	.0	.0	.0	.0	.0	2.6	.0	.0	.0	.0	7.9		.0	89.5
12&15	.0	.0	.0	.0	.0	.0	.0	.0	2.4	9.8	.0	.0	.0		.0	87.8
18&21	1.7	1.7	1.7	.0	.0	.0	.0	5.0	.0	5.0	1.7	1.7	.0		.0	86.7
TOT PCT	2.2	1.7	.6	.0	.0	.0	.0	4.5	.6	3.9	1.1	.6	1.7		.0	87.6
TOT OBS:	178															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.5	.6	.0	.0	.0	.0		1.1	4.2	.5	.0	1.7	.8	.5	.0	1.5	1.2
NE	1.4	7.5	.6	.2	.0	.0		9.7	6.4	4.6	.0	4.5	7.6	9.5	10.0	16.2	18.5
E	2.3	20.5	7.6	.1	.0	.0		30.4	8.7	33.8	28.1	29.0	25.8	30.8	60.0	32.2	28.0
SE	1.9	26.2	9.8	.4	.0	.0		38.3	8.9	38.1	40.9	39.1	47.7	44.7	20.0	37.3	23.8
S	.6	7.9	1.9	.0	.0	.0		10.5	8.0	13.7	25.0	12.0	9.8	6.3	10.0	3.9	17.3
SW	.4	2.8	1.0	.0	.0	.0		4.1	7.5	3.4	.0	6.4	4.5	3.9	.0	2.6	3.0
W	.5	1.3	.4	.0	.0	.0		2.2	7.0	2.1	.0	2.4	.8	1.5	.0	1.8	4.8
NW	.2	.4	.2	.0	.0	.0		.8	5.5	.5	.0	1.4	.0	.0	.0	.9	1.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.9							2.9	.0	3.1	.0	3.5	3.0	2.9	.0	3.5	1.2
TOT OBS	67	417	133	4	0	0	621		8.0	97	8	144	66	103	5	114	84
TOT PCT	10.8	67.1	21.4	.6	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21				
N	.9	.2	.0	.0	.0		1.1	4.2	.5	1.4	.5	1.4				
NE	6.4	3.2	.2	.0	.0		9.7	6.4	4.3	5.5	9.5	17.2				
E	9.6	19.9	.8	.0	.0		30.4	8.7	33.3	28.0	32.2	30.4				
SE	12.5	24.0	1.8	.0	.0		38.3	8.9	38.8	41.8	43.5	31.6				
S	4.2	6.2	.1	.0	.0		10.5	8.0	14.5	11.3	6.5	9.6				
SW	2.1	2.1	.0	.0	.0		4.1	7.5	3.3	5.8	3.7	3.0				
W	1.4	.8	.2	.0	.0		2.2	7.0	1.9	1.9	1.4	3.0				
NW	.6	.2	.0	.0	.0		.8	5.5	.5	1.0	.0	1.3				
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0				
CALM	2.9						2.9	.0	2.9	3.3	2.8	2.5				
TOT OBS	252	350	19	0	0	621		8.0	105	210	108	198				
TOT PCT	40.6	56.4	3.1	.0	.0		100.0		100.0	100.0	100.0	100.0				

SEPTEMBER

PERIOD: (PRIMARY) 1906-1971
(OVER-ALL) 1854-1971

AREA 0004 NORTHWEST JAVA SEA
3.0S 106.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.9	7.6	65.7	22.9	1.0	.0	.0	8.2	100.0	105
06&09	3.3	6.2	65.2	24.8	.5	.0	.0	8.4	100.0	210
12&15	2.8	5.6	65.7	25.0	.9	.0	.0	8.5	100.0	108
18&21	2.5	11.1	70.7	15.2	.5	.0	.0	7.3	100.0	198
TOT	18	49	417	133	4	0	0	8.0		621
PCT	2.9	7.9	67.1	21.4	.6	.0	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.0		.0
NE	2.9	.0	1.1	.0		2.0
E	11.2	8.0	12.1	2.3		4.0
SE	14.7	16.1	10.9	4.6		3.7
S	.0	1.1	4.3	.0		6.0
SW	.0	.0	1.4	4.6		7.3
W	.0	.0	.0	1.1		8.0
NW	.0	.0	1.1	.0		7.0
VAR	.0	.0	.0	.0		.0
CALM	2.3	.0	.0	.0		.5
TOT OBS	27	27	27	11	87	4.1
TOT PCT	31.0	25.3	31.0	12.6	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NE	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	2.9	
E	.0	.0	.0	1.1	2.0	1.1	1.1	.0	.0	.0	28.2	
SE	.0	.0	1.1	1.1	1.4	2.3	1.1	.0	.0	.0	39.1	
S	.0	.0	.0	.0	2.0	.0	1.1	.0	.0	.0	2.3	
SW	.0	.0	1.1	.0	3.7	.0	.0	.0	.0	.0	1.1	
W	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	
TOT OBS	0	0	2	2	10	3	4	0	0	0	66	87
TOT PCT	.0	.0	2.3	2.3	11.5	3.4	4.6	.0	.0	.0	75.9	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
* OR >2000	5.5	5.6	7.7	7.7	7.7	7.7	7.7	7.7
* OR >1000	12.1	17.6	18.7	18.7	18.7	18.7	18.7	18.7
* OR >600	14.3	19.8	20.9	20.9	20.9	20.9	20.9	20.9
* OR >300	14.3	20.9	23.1	23.1	23.1	23.1	23.1	23.1
* OR >150	14.3	20.9	23.1	23.1	23.1	23.1	23.1	23.1
* OR > 0	14.3	20.9	23.1	23.1	23.1	23.1	23.1	23.1
TOTAL	13	19	21	21	21	21	21	21

TOTAL NUMBER OF OBS: 91 PCT FREQ NH <5/8: 76.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
9.1	13.1	30.3	17.2	7.1	5.1	5.1	4.0	9.1	.0	99

PERIOD: (PRIMARY) 1906-1971
(OVER-ALL) 1854-1971

AREA 0004 NORTHWEST JAVA SEA
3.6S 106.3E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.6	
1<2	NO PCP	.0	.0	.6	.6	.0	.0	.0	.0	.0	.0	1.2	
	TOT %	.0	.0	.6	1.2	.0	.0	.0		.0	.0	1.7	
	PCP	.0	.0	.0	.0	.0	.6	.0		.0	.0	.6	
2<5	NO PCP	.0	.0	.6	.7	1.6	.0	.0	.0	.0	.0	2.9	
	TOT %	.0	.0	.6	.7	1.6	.6	.0	.0	.0	.0	3.5	
	PCP	.0	.6	.0	.6	2.0	.9	.0	.0	.0	.0	3.5	
5<10	NO PCP	.0	4.4	6.3	12.4	2.6	.6	.6	.6	.0	.6	27.9	
	TOT %	.0	4.9	6.3	12.9	4.7	.9	.6	.6	.0	.6	31.4	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10+	NO PCP	.7	5.4	22.7	26.7	3.1	2.5	1.2	.0	.0	1.2	63.4	
	TOT %	.7	5.4	22.7	26.7	3.1	2.5	1.2	.0	.0	1.2	63.4	
	TOT OBS												172
	TOT PCT	.7	10.3	30.1	41.6	9.3	3.9	1.7	.6	.0	1.7	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.2	.5	.0	.0	.0	.0	.0		.6	
	11-21	.0	.0	.2	.2	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.3	.6	.0	.0	.0	.0	.0	.0	.9	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	4-10	.0	.0	.0	.0	.6	.3	.0	.0	.0		.9	
	11-21	.0	.0	.3	.4	.2	.0	.0	.0	.0		.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.3	.4	.8	.3	.0	.0	.0	.0	1.8	
	0-3	.0	.2	.3	.5	.0	.3	.0	.0	.0	.3	1.5	
5<10	4-10	.0	2.9	3.5	4.7	2.4	.2	.3	.3	.0		14.2	
	11-21	.0	.0	1.0	3.2	.3	.0	.0	.0	.0		4.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	3.0	4.7	8.4	2.7	.5	.3	.3	.0	.3	20.2	
	0-3	.4	1.0	1.5	1.4	.3	.2	.5	.3	.0	2.1	7.5	
10+	4-10	.5	5.4	21.3	20.9	4.0	1.9	1.5	.0	.0		55.4	
	11-21	.0	.0	5.9	6.9	.2	.9	.0	.0	.0		13.9	
	22+	.0	.0	.0	.3	.0	.0	.0	.0	.0		.3	
	TOT %	.8	6.4	28.8	29.4	4.4	2.9	2.0	.3	.0	2.1	77.1	
	TOT OBS												332
	TOT PCT	.8	9.4	34.1	38.7	8.0	3.7	2.3	.6	.0	2.4	100.0	

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	4.8	9.5	4.8	.0	.0	.0	.0	.0	19.0	81.0	21
06&09	.0	.0	4.3	.0	13.0	8.7	8.7	.0	.0	.0	34.8	65.2	23
12&15	.0	.0	.0	.0	11.1	.0	.0	.0	.0	.0	11.1	88.9	27
18&21	.0	.0	.0	.0	11.5	3.8	7.7	.0	.0	.0	23.1	76.9	26
TOT	0	0	2	2	10	3	4	0	0	0	21	76	97
PCT	.0	.0	2.1	2.1	10.3	3.1	4.1	.0	.0	.0	21.6	78.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	1.6	3.1	23.4	71.9	64
06&09	.0	.0	2.3	2.3	21.8	73.6	87
12&15	.0	.0	.0	1.4	12.2	86.5	74
18&21	.0	.0	.0	.9	21.2	77.9	113
TOT	0	0	3	6	67	262	338
PCT	.0	.0	.9	1.8	19.8	77.5	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	5.3	15.8	5.3	78.9	19
06&09	.0	4.8	9.5	28.6	61.9	21
12&15	.0	.0	.0	11.5	88.5	26
18&21	.0	.0	.0	24.0	76.0	25
TOT	0	2	5	16	70	91
PCT	.0	2.2	5.5	17.6	76.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	1.4	7.2	2.2	.0	13	10.9
80/84	.0	.0	.0	.0	4.3	44.9	31.9	2.9	116	84.1
75/79	.0	.0	.0	.0	.0	1.4	2.2	.7	6	4.3
70/74	.0	.0	.0	.0	.0	.0	.0	.7	1	.7
TOTAL	0	0	0	0	8	74	50	6	138	100.0
PCT	.0	.0	.0	.0	5.8	53.6	36.2	4.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	1.8	5.6	1.8	.2	.7	.0	.0	.7
	.4	8.7	24.5	37.1	6.9	3.6	.7	.7	.0	1.4
	.0	.7	.7	2.2	.0	.7	.0	.0	.0	.0
	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0
	.4	10.1	27.0	44.9	8.7	4.5	1.4	.7	.0	2.2

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	86	85	84	82	78	75	75	81.8	103
06&09	92	91	88	83	79	77	77	83.6	207
12&15	84	83	83	82	80	77	77	82.0	109
18&21	85	84	83	82	80	75	74	81.5	194
TOT	92	89	86	82	79	77	74	82.3	613

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	.0	58.6	37.9	3.4	79	29
06&09	.0	.0	9.4	68.8	21.9	.0	75	32
12&15	.0	.0	6.1	57.6	33.3	3.0	79	33
18&21	.0	.0	6.1	36.7	49.0	8.2	81	49
TOT	0	0	8	76	53	6	79	143

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TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
6	.0	.0	.0	.7	1	.0	.7
5	.0	.0	.0	.7	1	.0	.7
4	.0	.0	.0	.7	1	.0	.7
3	.0	.0	.0	.7	1	.0	.7
2	.0	.0	3.4	4.8	12	.0	8.3
1	.0	.0	6.2	.0	9	.0	6.2
0	.0	.0	29.7	.7	44	.0	30.3
-1	.0	2.1	26.9	.0	42	.0	29.0
-2	.0	.7	10.3	.7	17	.0	11.7
-3	.0	.7	3.4	1.4	8	.0	5.5
-4	.0	2.1	.7	.0	4	.0	2.8
-5	.7	1.4	.0	.0	3	.0	2.1
-6	.7	.0	.7	.0	2	.0	1.4
TOTAL	2		118			0	145
		10		15	145		
PCT	1.4	6.9	81.4	10.3	100.0		100.0

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

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

N

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

NE

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

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	12.5	.0	.0	.0	.0	12.5
3-4	.0	5.7	2.3	.0	.0	.0	8.0
5-6	.0	3.4	1.7	.0	.0	.0	5.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	21.6	4.0	.0	.0	.0	25.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	19.3	9.1	.0	.0	.0	28.4
3-4	.0	5.1	9.1	2.3	.0	.0	16.5
5-6	.0	1.1	5.7	.0	.0	.0	6.8
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	25.6	23.9	2.3	.0	.0	51.7

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TABLE 16 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	6.8	.0	.0	.0	.0	6.8
3-4	.0	2.3	.0	.0	.0	.0	2.3
5-6	.0	.0	1.7	.0	.0	.0	1.7
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	9.1	1.7	.0	.0	.0	10.8

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.3	.0	.0	.0	.0	2.3
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	2.3	.0	.0	.0	.0	2.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.5	.0	.0	.0	.0	4.5

W

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

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	2.3	.0	.0	.0	.0	2.3	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	2.3	.0	.0	.0	.0	2.3	97.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.4	4.4	.0	.0	.0	.0	8.9	
1-2	.0	37.8	8.9	.0	.0	.0	46.7	
3-4	.0	17.8	11.1	2.2	.0	.0	31.1	
5-6	.0	4.4	8.9	.0	.0	.0	13.3	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.4	64.4	28.9	2.2	.0	.0	100.0	45

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.3	36.8	31.6	9.2	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	82	3
6-7	.0	1.3	5.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
10-11	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	2
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	2.6	5.3	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	2
TOTAL	3	34	30	7	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	76	3
PCT	3.9	44.7	39.5	9.2	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1907-1972
(OVER-ALL) 1854-1972

TABLE 1

AREA 0004 NORTHWEST JAVA SEA
3.0S 106.5E

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SLWG	DUST SNOW	NO SIG WEA
N	20.5	.0	.0	.0	.0	.0	.0	20.5	.0	.0	.0	.0	15.4		.0	64.1
NE	.0	5.9	.0	.0	.0	.0	.0	5.9	1.5	27.9	.0	.0	14.7		.0	50.0
E	.0	3.6	.0	.0	.0	.0	.0	3.6	1.8	5.4	2.4	.0	1.2		.0	85.6
SE	2.3	1.1	.0	.0	.0	.0	.0	3.4	.0	2.3	.0	.0	3.4		.0	90.8
S	.0	.0	.0	.0	.0	.0	.0	.0	5.8	.0	11.6	.0	.0		.0	82.6
SW	8.0	4.0	.0	.0	.0	.0	.0	12.0	8.0	.0	.0	.0	.0		.0	80.0
W	15.4	7.7	.0	.0	.0	.0	.0	23.1	.0	7.7	.0	.0	.0		.0	69.2
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.5	.0	.0	.0		.0	89.5
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	21.4	.0	.0	7.1		.0	71.4
TOT PCT	3.0	2.4	.0	.0	.0	.0	.0	5.4	1.8	7.2	1.8	.0	4.2		.0	79.6
TOT OBS:	167															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SLWG	DUST SNOW	NO SIG WEA
00E03	2.9	5.7	.0	.0	.0	.0	.0	8.6	2.9	2.9	.0	.0	2.9		.0	82.9
06E09	8.8	2.9	.0	.0	.0	.0	.0	11.8	2.9	.0	2.9	.0	5.9		.0	76.5
12E15	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	4.8	.0	2.4		.0	88.1
18E21	1.5	3.0	.0	.0	.0	.0	.0	4.5	1.5	13.4	.0	.0	6.0		.0	74.6
TOT PCT	2.8	2.8	.0	.0	.0	.0	.0	5.6	1.7	6.7	1.7	.0	4.5		.0	79.8
TOT OBS:	178															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.7	2.7	.5	.0	.0	.0		3.9	6.3	1.2	.0	2.6	5.3	3.5	.0	3.8	8.8
NE	1.5	4.3	1.7	.0	.0	.0		7.4	7.5	9.3	.0	9.6	2.3	8.4	.0	12.4	11.8
E	2.9	15.7	3.4	.0	.0	.0		22.1	7.3	29.1	33.3	20.7	23.5	20.8	25.0	23.9	14.7
SE	2.2	19.2	4.6	.0	.0	.0		26.0	7.6	23.8	25.0	27.1	37.9	32.9	25.0	22.3	14.1
S	2.9	9.2	3.0	.2	.0	.0		15.3	7.3	12.4	25.0	18.2	20.5	20.1	.0	9.7	12.4
SW	1.9	4.9	1.9	.2	.0	.0		8.8	7.4	13.5	16.7	15.0	2.3	3.7	.0	7.1	9.4
W	.5	2.4	1.4	.2	.0	.0		4.4	8.7	3.5	.0	4.3	1.5	2.8	8.3	4.2	10.0
NW	.4	2.3	.2	.0	.0	.0		2.9	6.8	2.9	.0	1.7	.8	1.2	41.7	3.8	4.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.1							9.1	.0								
TOT OBS	131	359	98	3	0	0	591		6.8	8.2	.0	6.8	6.1	6.5	.0	13.4	14.1
TOT PCT	22.2	60.7	16.6	.5	.0	.0		100.0		95	6	117	66	107	6	119	85
										100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.7	1.2	.1	.0	.0		3.9	6.3	1.1	3.6	3.3	5.9
NE	3.9	3.1	.4	.0	.0		7.4	7.5	4.9	3.1	8.0	12.1
E	11.2	10.3	.6	.0	.0		22.1	7.3	29.4	21.7	21.0	19.7
SE	11.4	13.9	.8	.0	.0		26.0	7.8	23.9	31.0	32.5	18.9
S	8.8	5.4	1.0	.0	.0		15.2	7.3	13.2	19.0	19.0	10.8
SW	4.9	3.4	.4	.0	.0		8.8	7.4	13.7	10.4	3.5	8.1
W	2.1	1.9	.4	.0	.0		4.4	8.7	3.3	3.3	3.1	6.6
NW	1.6	1.1	.2	.0	.0		2.9	6.8	2.7	1.4	3.3	4.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	9.1						9.1	.0	7.7	8.6	6.2	13.7
TOT OBS	330	238	23	0	0	591		6.8	91	103	113	204
TOT PCT	55.8	40.3	3.9	.0	.0		100.0		100.0	100.0	100.0	100.0

OCTOBER

PERIOD: (PRIMARY) 1907-1972
(OVER-ALL) 1854-1972

AREA 0004 NORTHWEST JAVA SEA
3.0S 106.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00603	7.7	18.7	59.3	14.3	.0	.0	.0	6.2	100.0	91
06609	6.6	12.0	59.6	21.3	.5	.0	.0	7.4	100.0	183
12615	6.2	13.3	65.5	15.0	.0	.0	.0	6.8	100.0	113
18621	13.7	11.4	99.8	14.2	1.0	.0	.0	6.5	100.0	204
TOT	54	77	359	98	3	0	0	6.8		591
PCT	9.1	13.0	60.7	16.6	.5	.0	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.1	.0	.0	1.4		5.0
NE	2.8	1.4	3.5	.0		4.1
E	9.9	5.3	7.4	1.1		3.5
SE	4.2	10.2	10.2	2.1		4.3
S	1.1	2.8	3.9	5.3		4.5
SW	.4	1.4	1.8	8.5		6.7
W	.0	.0	2.8	1.4		6.6
NW	.4	.0	.0	1.4		6.6
VAR	.0	.0	.0	.0		.0
CALM	2.8	1.4	4.2	.0		3.6
TOT OBS	16	16	24	15	71	4.7
TOT PCT	22.5	22.5	33.8	21.1	100.0	

TABLE 6

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

000 149	150 299	300 499	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	1.1	
.0	.0	.0	.7	1.4	.0	.0	.0	.0	.0	5.6	
.0	.0	.0	2.1	2.5	.0	.0	.0	.0	.0	19.0	
.0	.0	.0	.4	3.2	.0	.0	.0	.0	1.4	21.8	
.0	.0	.0	1.1	2.5	1.4	.0	1.4	.0	.0	6.7	
.0	.0	.0	2.8	1.8	.0	1.4	.0	.0	.0	6.0	
.0	.0	.0	.0	.0	1.4	.7	.7	.0	.0	1.4	
.0	.0	.0	.0	.0	.0	.7	.7	.0	.0	.4	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	1.4	.0	1.4	1.4	.0	.0	.0	4.2	
0	0	0	7	8	3	3	2	0	1	47	71
.0	.0	.0	9.9	11.3	4.2	4.2	2.8	.0	1.4	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) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
* OR >5000	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
* OR >3500	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
* OR >2000	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
* OR >1000	21.9	23.3	23.3	23.3	23.3	23.3	23.3	23.3
* OR >600	28.8	31.5	32.9	32.9	32.9	32.9	32.9	32.9
* OR >300	28.8	31.5	32.9	32.9	32.9	32.9	32.9	32.9
* OR >150	28.8	31.5	32.9	32.9	32.9	32.9	32.9	32.9
* OR > 0	28.8	31.5	32.9	32.9	32.9	32.9	32.9	32.9
TOTAL	21	23	24	24	24	24	24	24

TOTAL NUMBER OF OBS: 73 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
6.4	17.9	21.6	14.1	7.7	14.1	6.4	3.8	7.7	.0	78

PERIOD: (PRIMARY) 1907-1972
(OVEP-ALL) 1854-1972

AREA 0004 NORTHWEST JAVA SEA
3.6S 106.5E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.6	
	TOT %	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.6	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.9	.9	.0	.6	.0	.0	.0	.0	.0	.6	3.0	
	TOT %	.9	.9	.0	.6	.0	.0	.0	.0	.0	.6	3.0	
2<5	PCP	.6	.0	.0	.0	.0	.0	.6	.0	.0	.0	1.2	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.6	.0	.0	.0	.0	.0	.6	.0	.0	.0	1.2	
5<10	PCP	.6	.6	.9	.9	.0	.9	.3	.0	.0	.0	4.2	
	NO PCP	3.0	1.9	7.9	11.4	4.3	.4	.3	.0	.0	1.8	31.1	
	TOT %	3.6	2.5	8.8	12.3	4.3	1.3	.6	.0	.0	1.8	35.3	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.7	6.7	15.6	13.2	6.0	5.1	2.7	2.6	.0	6.0	59.5	
	TOT %	.7	6.7	15.6	13.2	6.0	5.1	2.7	2.6	.0	6.0	59.5	
	TOT OBS												167
	TOT PCT	5.8	10.2	25.0	26.0	10.3	7.5	3.9	2.6	.0	8.4	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3	
1<2	0-3	.2	.5	.0	.0	.0	.0	.0	.0	.0	.3	1.0	
	4-10	.3	.0	.0	.0	.0	.0	.0	.0	.0		.3	
	11-21	.0	.0	.0	.3	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.5	.5	.0	.3	.0	.0	.0	.0	.0	.3	1.7	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.3	.0	.0	.3	.0	.0		.7	
	11-21	.3	.0	.0	.0	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.0	.0	.3	.0	.0	.3	.0	.0	.0	1.0	
5<10	0-3	.2	.2	.7	.0	.3	.3	.2	.0	.0	1.0	2.7	
	4-10	1.7	1.4	4.3	6.2	2.8	.5	.7	.3	.0		17.4	
	11-21	.2	.7	1.0	1.5	.5	.3	.2	.0	.0		4.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	2.0	2.3	6.0	7.7	3.1	1.1	1.0	.3	.0	1.0	24.5	
10+	0-3	.2	.8	1.6	1.3	2.5	1.0	.3	.3	.0	7.7	15.8	
	4-10	1.4	5.7	14.8	13.4	5.6	3.3	1.5	1.9	.0		47.7	
	11-21	.0	.7	3.1	2.9	1.1	.7	.3	.0	.0		8.7	
	22+	.0	.0	.0	.0	.0	.0	.3	.0	.0		.3	
	TOT %	1.6	7.1	19.5	17.6	9.2	4.9	2.5	2.3	.0	7.7	72.5	
	TOT OBS												298
	TOT PCT	4.4	9.9	25.8	26.0	12.3	6.0	3.9	2.6	.0	9.1	100.0	

OCTOBER

PERIOD: (PRIMARY) 1907-1972
(OVER-ALL) 1854-1972

AREA 0004 NORTHWEST JAVA SEA
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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	.0	5.6	11.1	.0	.0	.0	.0	.0	15.7	83.3	18
06E09	.0	.0	.0	25.0	16.7	.0	8.3	.0	.0	8.3	58.3	41.7	12
12E15	.0	.0	.0	.0	15.8	5.3	5.3	5.3	.0	.0	31.6	68.4	19
18E21	.0	.0	.0	10.7	3.6	7.1	3.6	3.6	.0	.0	28.6	71.4	28
TOT	0	0	0	7	8	3	3	2	0	1	24	53	77
PCT	.0	.0	.0	9.1	10.4	3.9	3.9	2.6	.0	1.3	31.2	68.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.0	.0	.0	.0	24.5	75.5	49
06E09	.0	.0	1.4	2.9	28.6	67.1	70
12E15	.0	1.4	1.4	.0	21.6	75.7	74
18E21	.0	.0	3.4	.9	27.6	68.1	116
TOT	0	1	4	3	80	219	309
PCT	.0	.3	1.9	1.0	25.9	70.9	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 <50VSBY	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	.0	5.6	11.1	83.3	18
06E09	.0	.0	25.0	33.3	41.7	12
12E15	.0	.0	.0	35.3	64.7	17
18E21	.0	.0	11.5	19.2	69.2	26
TOT	0	0	7	17	49	73
PCT	.0	.0	9.6	23.3	67.1	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	.7	.0	.0	.0	1	.7
85/89	.0	.0	.0	.0	2.9	8.0	.7	.0	16	11.6
80/84	.0	.0	.0	.0	2.2	29.3	48.6	5.1	116	84.1
75/79	.0	.0	.0	.0	.0	1.4	.0	2.2	5	3.6
TOTAL	0	0	0	0	8	52	68	10	138	100.0
PCT	.0	.0	.0	.0	5.8	37.7	49.3	7.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0
	1.3	1.1	2.2	5.4	.7	.7	.0	.2	.0	.0
	4.7	10.9	20.8	20.7	9.4	4.9	2.5	1.4	.0	8.7
	.7	.0	.0	.7	.0	1.4	.0	.0	.0	.7
	6.7	12.0	23.0	27.5	10.1	7.1	2.5	1.6	.0	9.4

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	88	87	85	82	79	75	75	82.3	91
06E09	92	91	89	83	79	76	74	83.6	181
12E15	87	86	85	82	80	76	76	82.3	109
18E21	85	84	84	82	78	76	74	81.5	206
TOT	92	90	86	82	79	76	74	82.4	587

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	.0	48.3	48.3	3.4	80	29
06E09	.0	.0	18.5	48.1	25.9	7.4	78	27
12E15	.0	.0	6.3	31.3	53.1	9.4	81	32
18E21	.0	.0	1.7	31.7	60.0	6.7	81	60
TOT	0	0	8	56	74	10	80	148

PERIOD: (PRIMARY) 1907-1972
(OVER-ALL) 1854-1972

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TABLE 17

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

AIR-SEA TMP DIF	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
4	.0	.7	1.5	.7	4	.0	3.0
3	.0	.0	.7	.0	1	.0	.7
2	.0	3.7	2.2	.0	8	.0	5.9
1	.0	5.9	3.0	.0	12	.0	8.9
0	.0	17.0	1.5	.0	25	1.5	17.0
-1	.7	23.0	.0	.0	32	.0	23.7
-2	3.0	15.6	.0	.0	25	.0	18.5
-3	.7	6.7	.0	.0	10	.0	7.4
-4	.7	5.9	.0	.0	9	.0	6.7
-5	1.5	1.5	.0	.0	4	.0	3.0
-6	.0	.7	.0	.0	1	.0	.7
-7/-8	.7	2.2	.0	.0	4	.0	3.0
TOTAL	10	112	12	1	135	2	133
PCT	7.4	83.0	8.9	.7	100.0	1.5	98.5

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

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

N

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

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.1	.0	.0	.0	.0	2.1
1-2	.0	4.3	.0	.0	.0	.0	4.3
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.4	.0	.0	.0	.0	6.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	6.4	.0	.0	.0	.0	6.4
1-2	.0	10.1	3.7	.0	.0	.0	13.8
3-4	.0	6.4	.0	.0	.0	.0	6.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	22.9	3.7	.0	.0	.0	26.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.1	2.1	.0	.0	.0	4.3
1-2	2.1	15.4	2.7	.0	.0	.0	20.2
3-4	.0	.0	2.7	.0	.0	.0	2.7
5-6	.0	2.1	.0	.0	.0	.0	2.1
7	.0	.0	2.1	.0	.0	.0	2.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.1	19.7	9.6	.0	.0	.0	31.4

PERIOD: (OVER-ALL) 1963-1972

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TABLE 18 (CONT)

AREA 0004 NORTHWEST JAVA SEA
3.6S 106.5E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.1	.0	.0	.0	.0	2.1	2.1	.0	.0	.0	.0	.0	2.1
1-2	.0	.0	.0	.0	.0	.0	.0	.0	8.5	.0	.0	.0	.0	8.5
3-4	1.6	.0	3.7	.0	.0	.0	5.3	.5	.0	.0	.0	.0	.0	.5
5-6	.0	.0	2.1	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	.0	.0	.0	2.1
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	1.6	2.1	5.9	.0	.0	.0	9.5	2.7	8.5	2.1	.0	.0	.0	13.3

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.5	
3-4	.0	.0	2.1	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	2.1	.0	.0	.0	2.1	.0	.5	.0	.0	.0	.0	.5	91.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	10.4	12.5	2.1	.0	.0	.0	25.0	
1-2	2.1	41.7	6.3	.0	.0	.0	50.0	
3-4	2.1	6.3	8.3	.0	.0	.0	16.7	
5-6	.0	2.1	2.1	.0	.0	.0	4.2	
7	.0	.0	4.2	.0	.0	.0	4.2	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	14.6	62.5	22.9	.0	.0	.0	100.0	48

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	20.0	25.7	15.7	2.9	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	54	2
6-7	.0	1.4	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	3
8-9	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	14.3	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	0
TOTAL	24	27	14	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70	2
PCT	34.3	38.6	20.0	2.9	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1905-1971
(OVER-ALL) 1957-1971

AREA 0004 NORTHWEST JAVA SEA
3.6S 106.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	8.7	8.7	.0	.0	.0	.0	.0	17.4	.0	15.9	.0	.0	5.8		.0	63.8
NE	3.9	11.8	.0	.0	.0	.0	.0	15.7	.0	15.7	.0	.0	.0		.0	72.5
E	.0	.0	6.7	.0	.0	.0	.0	6.7	6.7	.0	.0	.0	.0		.0	86.7
SE	6.9	5.7	2.3	.0	.0	.0	.0	14.9	.0	4.6	.0	.0	.0		.0	80.5
S	3.1	5.3	4.6	.0	.0	.0	.0	13.0	5.3	6.9	.0	.0	.0		.0	74.8
SW	5.9	4.7	2.4	.0	.0	.0	.0	13.0	.6	11.2	.0	.0	.0		.0	77.5
W	7.9	4.5	.0	.0	.0	.0	.0	12.4	.0	9.0	.0	.0	.0		.0	78.7
NW	2.1	8.3	.0	.0	.0	.0	.0	10.4	.0	2.1	.0	.0	8.3		.0	79.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	6.3	.0	.0	.0	.0	.0	6.3	6.3	12.5	.0	.0	.0		.0	75.0
TOT PCT	4.7	5.7	2.1	.0	.0	.0	.0	12.5	2.1	8.9	.0	.0	1.0		.0	76.6
TOT OBS:	192															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.9	11.8	.0	.0	.0	.0	.0	14.7	5.9	.0	.0	.0	2.9		.0	76.5
06&09	7.3	9.8	.0	.0	.0	.0	.0	17.1	4.9	2.4	.0	.0	.0		.0	75.6
12&15	1.9	.0	5.7	.0	.0	.0	.0	7.5	.0	9.4	.0	.0	.0		.0	83.0
18&21	7.1	4.3	1.4	.0	.0	.0	.0	12.9	.0	17.1	1.4	.0	1.4		.0	70.0
TOT PCT	5.1	5.6	2.0	.0	.0	.0	.0	12.6	2.0	9.1	.5	.0	1.0		.0	75.8
TOT OBS:	198															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.6	2.8	.6	.0	.0	.0		5.0	5.4	6.0	8.3	2.0	3.8	4.7	12.5	0.4	6.9
NE	2.1	5.0	.2	.0	.0	.0		7.3	5.4	5.1	8.3	5.6	6.1	8.2	.0	9.3	9.2
E	2.1	5.5	.7	.0	.0	.0		8.3	6.2	11.1	5.6	6.4	8.3	11.4	12.5	6.8	6.3
SE	4.1	8.2	1.4	.0	.0	.0		13.7	5.9	13.9	22.2	15.6	15.2	16.1	18.8	9.7	10.9
S	3.7	11.4	1.2	.2	.0	.0		16.5	6.0	13.0	11.1	15.0	27.3	22.9	31.3	12.9	10.3
SW	3.5	12.1	3.9	.1	.0	.0		19.6	7.6	23.2	22.2	21.8	22.0	13.1	.0	21.0	19.0
W	1.1	8.2	1.5	.1	.0	.0		10.9	7.6	14.2	.0	12.4	3.0	8.9	.0	11.9	14.9
NW	1.2	3.6	.7	.0	.0	.0		5.6	6.6	9.9	11.1	5.2	3.8	4.4	.0	5.1	5.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	13.1							13.1	.0	3.6	11.1	16.0	10.6	10.3	25.0	16.9	17.2
TOT OBS	197	343	61	2	0	0	603		5.7	83	9	125	66	107	8	118	87
TOT PCT	32.7	56.9	10.1	.3	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.9	1.2	.0	.0	.0		5.0	5.4	6.3	2.6	5.2	6.6
NE	5.2	1.9	.1	.0	.0		7.3	5.4	5.4	5.8	7.6	9.3
E	5.2	2.9	.2	.0	.0		8.3	6.2	10.6	7.1	11.5	6.6
SE	8.8	4.8	.1	.0	.0		13.7	5.9	14.7	15.4	16.3	10.2
S	11.7	4.6	.2	.0	.0		16.5	6.0	12.8	19.2	23.5	11.8
SW	9.2	9.6	.8	.0	.0		19.6	7.6	23.1	21.9	12.2	20.1
W	4.8	5.7	.4	.0	.0		10.9	7.6	12.8	9.2	8.3	13.2
NW	3.2	2.2	.2	.0	.0		5.6	6.6	10.1	4.7	4.1	5.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	13.1						13.1	.0	4.3	14.1	11.3	17.1
TOT OBS	392	199	12	0	0	603		5.7	92	191	115	205
TOT PCT	65.0	33.0	2.0	.0	.0		100.0		100.0	100.0	100.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1905-1971
(OVER-ALL) 1857-1971

AREA 0004 NORTHWEST JAVA SEA
3.6S 106.6E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	4.3	16.3	71.7	7.6	.0	.0	.0	4.0	100.0	92
06&09	14.1	20.4	56.5	8.9	.0	.0	.0	5.4	100.0	191
12&15	11.3	27.0	53.0	8.7	.0	.0	.0	5.1	100.0	115
18&21	17.1	16.1	52.7	13.2	1.0	.0	.0	6.0	100.0	205
TOT	79	118	343	61	2	0	0	5.7		603
PCT	13.1	19.6	56.9	10.1	.3	.0	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.8	.8	2.8	.0		4.1
NE	.5	.0	1.8	3.1		6.8
E	2.3	.0	3.4	1.0		5.1
SE	3.9	2.6	3.1	1.0		3.7
S	2.3	2.6	12.6	2.8		5.7
SW	1.5	5.7	10.3	6.4		5.7
W	2.1	2.3	5.9	3.9		5.8
NW	.0	1.5	2.3	.3		5.1
VAR	.0	.0	.0	.0		.0
CALM	1.0	2.1	4.1	2.1		5.1
TOT OBS	15	17	45	20	97	5.2
TOT PCT	15.5	17.5	46.4	20.6	100.0	

TABLE 6

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

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4	
NE	.0	.0	.0	.0	1.0	1.0	.0	.0	.0	.0	3.4	
E	.0	.0	.0	.0	1.0	.0	.8	.0	.0	.0	4.9	
SE	1.0	.0	.0	.0	.0	.0	1.5	.0	.0	.0	8.0	
S	.0	.0	1.0	1.8	.8	.0	.8	.0	.0	.0	16.0	
SW	.0	.0	.0	3.4	3.4	2.1	.0	.0	.0	.0	15.2	
W	.8	.0	.0	.0	3.1	.0	1.0	.0	.0	.0	9.3	
NW	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	3.1	.0	.0	.0	.0	.0	6.2	
TOT OBS	2	0	1	5	12	3	4	0	0	0	70	97
TOT PCT	2.1	.0	1.0	5.2	12.4	3.1	4.1	.0	.0	.0	72.2	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	2.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
* OR >2000	5.0	7.9	7.9	7.9	7.9	7.9	7.9	7.9
* OR >1000	13.9	19.8	19.8	19.8	19.8	19.8	19.8	19.8
* OR >600	15.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8
* OR >300	16.8	25.7	25.7	25.7	25.7	25.7	25.7	25.7
* OR >150	16.8	25.7	25.7	25.7	25.7	25.7	25.7	25.7
* OR > 0	16.8	26.7	27.7	27.7	27.7	27.7	27.7	27.7
TOTAL	17	27	28	28	28	26	28	28

TOTAL NUMBER OF OBS: 101 PCT FREQ NH <5/8: 72.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
6.8	9.7	28.2	15.5	11.7	8.7	4.9	4.9	7.8	1.9	103

PERIOD: (PRIMARY) 1905-1971
(OVER-ALL) 1857-1971

TABLE 8

AREA 0006 NORTHWEST JAVA SEA
3.6S 106.6E

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.3	.3	.5	.0	.0	.0	.0	1.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.3	.3	.5	.0	.0	.0	.0	1.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.5	.0	.0	.0	.0	.0	.0	.5	.0	.0	1.0	
	TOT %	.5	.0	.0	.0	.0	.0	.0	.5	.0	.0	1.0	
2<5	PCP	.5	.0	.0	1.0	.0	.5	.0	.0	.0	.0	2.1	
	NO PCP	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.5	
	TOT %	.9	.0	.0	1.0	.5	.9	.0	.0	.0	.0	2.6	
5<10	PCP	.8	.8	.0	.3	1.0	.8	.4	.7	.0	.5	5.2	
	NO PCP	3.3	1.2	2.2	3.5	3.6	4.4	4.2	2.1	.0	2.1	26.6	
	TOT %	4.0	2.0	2.2	3.8	4.7	5.2	4.6	2.7	.0	2.6	31.8	
10+	PCP	.3	.3	.5	.1	.9	1.0	1.0	.0	.0	.0	4.2	
	NO PCP	3.6	4.4	5.1	6.1	10.7	14.7	6.0	3.0	.0	5.7	59.4	
	TOT %	3.9	4.7	5.6	6.3	11.6	15.8	7.0	3.0	.0	5.7	63.5	
	TOT OBS												192
	TOT PCT	9.0	6.6	7.8	11.3	17.1	22.0	11.6	6.3	.0	8.3	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.2	
	4-10	.0	.0	.0	.0	.2	.5	.0	.0	.0		.6	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.2	.3	.5	.0	.0	.0	.0	1.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.3	.0	.0	.0	.0	.0	.0	.3	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.0	.0	.0	.0	.0	.0	.3	.0	.0	.6	
2<5	0-3	.3	.0	.0	.6	.3	.0	.0	.0	.0	.0	1.3	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.3	.0	.3	.0	.0	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.0	.0	1.0	.3	.3	.0	.0	.0	.0	1.9	
5<10	0-3	.4	.6	.3	.0	.6	.3	.0	.3	.0	2.3	4.9	
	4-10	1.8	.6	1.1	1.7	2.3	3.2	2.9	1.3	.0		14.9	
	11-21	.3	.0	.2	.8	.0	.3	.2	.1	.0		1.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	2.5	1.2	1.5	2.5	2.9	3.9	3.2	1.7	.0	2.3	21.8	
10+	0-3	1.6	2.3	1.5	2.8	1.8	1.5	.9	.6	.0	11.0	24.0	
	4-10	1.5	4.2	4.3	6.8	10.2	8.8	3.0	1.4	.0		42.9	
	11-21	.3	.0	.3	.0	1.4	3.8	1.5	.4	.0		7.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	3.4	6.5	6.1	9.6	13.4	14.2	7.5	3.0	.0	11.0	74.7	
	TOT OBS												308
	TOT PCT	6.6	7.7	7.6	13.2	17.0	18.9	10.6	5.0	.0	13.3	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1905-1971
(OVER-ALL) 1857-1971

AREA 0004 NORTHWEST JAVA SEA
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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	.0	5.3	5.3	10.5	.0	.0	.0	.0	21.1	78.9	19
06E09	.0	.0	4.5	4.5	9.1	.0	4.5	.0	.0	.0	22.7	77.3	22
12E15	.0	.0	.0	3.3	6.7	.0	6.7	.0	.0	.0	16.7	83.3	30
18E21	6.5	.0	.0	6.5	22.6	3.2	6.5	.0	.0	.0	45.2	54.8	31
TOT	2	0	1	5	12	3	5	0	0	0	28	74	102
PCT	2.0	.0	1.0	4.9	11.8	2.9	4.9	.0	.0	.0	27.5	72.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.0	.0	1.9	1.9	15.4	80.8	52
06E09	.0	2.5	.0	1.2	14.8	81.5	81
12E15	.0	.0	.0	1.3	19.7	79.0	76
18E21	.0	1.0	1.0	2.9	32.4	62.9	105
TOT	0	3	2	6	69	234	314
PCT	.0	1.0	.6	1.9	22.0	74.5	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	.0	5.3	15.8	78.9	19
06E09	.0	4.5	9.1	13.6	77.3	22
12E15	.0	.0	3.3	13.3	83.3	30
18E21	6.7	6.7	13.3	33.3	53.3	30
TOT	2	3	8	20	73	101
PCT	2.0	3.0	7.9	19.8	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
85/89	.0	.0	.0	.0	2.1	2.8	1.4	.7	10	6.9
80/84	.0	.0	.0	.0	.7	31.7	48.3	4.8	124	85.5
75/79	.0	.0	.0	.0	.0	.7	3.4	2.8	10	6.9
70/74	.0	.0	.0	.0	.0	.0	.0	.7	1	.7
TOTAL	0	0	0	0	4	51	77	13	145	100.0
PCT	.0	.0	.0	.0	2.8	35.2	53.1	9.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.3	1.0	1.6	.3	1.4	.7	.0	.0	1.4
	7.4	5.0	4.8	8.3	13.3	22.4	11.4	6.7	.0	6.2
	.0	.7	.7	.9	2.1	1.9	.5	.2	.0	.0
	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0
	7.4	6.0	6.6	10.7	15.9	25.7	13.3	6.9	.0	7.6

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	88	87	85	82	78	76	76	82.1	90
06E09	94	92	88	83	79	75	74	83.1	195
12E15	89	87	85	82	79	77	77	82.3	112
18E21	88	86	84	82	78	75	73	81.6	201
TOT	94	89	86	82	79	76	73	82.3	598

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	3.8	38.5	42.3	15.4	82	26
06E09	.0	.0	3.8	34.6	57.7	3.8	80	26
12E15	.0	.0	2.6	34.2	60.5	2.6	80	38
18E21	.0	.0	3.3	31.7	53.3	11.7	82	60
TOT	0	0	5	51	81	13	81	150

PERIOD: (PRIMARY) 1905-1971
(OVER-ALL) 1857-1971

AREA 0004 NORTHWEST JAVA SEA
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TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
4	.0	.0	.0	.6	.6	2	.0	1.3
3	.0	.0	.0	.6	.0	1	.0	.6
2	.0	.0	2.5	1.9	.0	7	.0	4.4
1	.0	.0	8.8	1.3	.0	16	.0	10.0
0	.0	.0	11.9	.0	.0	19	.6	11.3
-1	.0	.0	20.0	.6	.0	33	.0	20.6
-2	.0	3.8	21.9	.0	.0	41	.0	25.6
-3	.0	3.8	6.9	.0	.0	17	.0	10.6
-4	.0	5.6	3.1	.0	.0	14	.0	8.8
-5	.6	1.3	1.3	.0	.0	5	.0	3.1
-6	.0	.0	.6	.0	.0	1	.0	.6
-7/-8	.6	1.3	.0	.0	.0	3	.0	1.9
-11/-13	.6	.0	.0	.0	.0	1	.0	.6
TOTAL	3	25	123	8	1	160	1	159
PCT	1.9	15.6	76.9	5.0	.6	100.0	.6	99.4

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.0	.0	.0	.0	.0	3.0
3-4	1.5	.0	.0	.0	.0	.0	1.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	3.0	.0	.0	.0	.0	4.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.0	.0	.0	.0	.0	3.0
1-2	.0	.5	.0	.0	.0	.0	.5
3-4	.5	.0	.0	.0	.0	.0	.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	3.5	.0	.0	.0	.0	4.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	5.0	.0	.0	.0	.0	5.0
1-2	.0	3.5	.0	.0	.0	.0	3.5
3-4	.0	.0	2.0	.0	.0	.0	2.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.5	2.0	.0	.0	.0	10.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.0	.0	.0	.0	.0	.0	2.0
1-2	.0	1.5	2.0	.0	.0	.0	3.5
3-4	.0	.5	.0	.0	.0	.0	.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.0	2.0	2.0	.0	.0	.0	6.0

PERIOD: (OVER-ALL) 1963-1971

NOVEMBER

TABLE 18 (CONT)

AREA 0004 NORTHWEST JAVA SEA
3.6S 106.6E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	27-33	34-47	48+	PCT
<1	2.0	.0	.0	.0	.0	.0	2.0	2.0	8.0	.0	.0	.0	.0	10.0
1-2	.0	11.5	.0	.0	.0	.0	11.5	.5	12.0	.0	.0	.0	.0	12.5
3-4	.0	1.5	1.5	.0	.0	.0	3.0	.0	8.0	2.5	.0	.0	.0	10.5
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	2.0	13.0	1.5	.0	.0	.0	16.5	2.5	28.0	2.5	.0	.0	.0	33.0

	W							WNW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	1.5	5.5	2.0	.0	.0	.0	9.0	.0	.5	2.0	.0	.0	.0	2.5	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	2.0	.0	.0	.0	.0	2.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.5	5.5	2.0	.0	.0	.0	9.0	.0	2.5	2.0	.0	.0	.0	4.5	88.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	19.6	15.7	.0	.0	.0	.0	35.3	
1-2	2.0	37.3	5.9	.0	.0	.0	45.1	
3-4	2.0	11.8	5.9	.0	.0	.0	19.6	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-27	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	23.5	64.7	11.8	.0	.0	.0	100.0	51

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	23.5	29.4	12.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	56	1
6-7	.0	1.2	3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	3
8-9	.0	.8	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDET	16.5	3.5	4.7	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	1
TOTAL	34	29	18	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	85	2
PCT	40.0	34.1	21.2	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1912-1971
(OVER-ALL) 1856-1971

AREA 0004 NORTHWEST JAVA SEA
3.6S 106.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	5.0	15.0	.0	.0	.0	.0	.0	20.0	.0	5.0	.0	.0	.0		.0	75.0
NE	.0	5.6	.0	.0	.0	.0	.0	5.6	11.1	11.1	.0	.0	.0		.0	72.2
E	.0	.0	.0	.0	.0	.0	.0	.0	18.2	.0	.0	.0	.0		.0	81.8
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.9	.0	38.7		.0	48.4
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.8	14.8	.0	.0		.0	70.4
SW	14.0	1.8	.0	.0	.0	.0	.0	15.8	.0	26.3	.0	.0	.0		.0	68.4
W	21.3	7.4	4.3	.0	.0	.0	.0	28.7	8.5	13.8	.0	.0	.0		.0	59.6
NW	10.4	5.2	2.1	.0	.0	.0	.0	17.6	4.1	8.3	.0	.0	.0		.0	72.0
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	10.0	10.0	.0	.0	.0		.0	80.0
TOT PCT	9.0	5.5	1.4	.0	.0	.0	.0	15.2	4.8	10.3	1.4	.0	2.1		.0	69.7
TOT OBS:	145															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	5.6	2.8	2.8	.0	.0	.0	.0	11.1	8.3	.0	.0	.0	.0		.0	80.6
06&09	.8	13.5	.0	.0	.0	.0	.0	13.5	.0	.0	2.7	.0	2.7		.0	81.1
12&15	12.2	.0	2.4	.0	.0	.0	.0	12.2	.0	17.1	2.4	.0	2.4		.0	68.3
18&21	14.9	6.4	.0	.0	.0	.0	.0	21.3	8.5	19.1	.0	.0	2.1		.0	57.4
TOT PCT	8.7	5.6	1.2	.0	.0	.0	.0	14.9	4.3	9.9	1.2	.0	1.9		.0	70.8
TOT OBS:	161															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.5	7.8	1.6	.1	.0	.0		11.0	7.0	4.2	20.0	9.2	12.3	15.6	8.3	13.8	8.5
NE	1.5	2.8	.1	.0	.0	.0		4.4	5.1	2.1	.0	1.1	5.1	3.8	.0	10.2	4.3
E	1.2	1.0	.0	.0	.0	.0		2.3	4.2	2.1	20.0	.0	2.2	.9	.0	6.1	1.2
SE	.7	1.6	.1	.0	.0	.0		2.3	4.9	.0	.0	1.4	5.8	4.2	16.7	1.5	.0
S	2.2	3.1	.6	.0	.0	.0		5.8	5.1	2.4	.0	4.1	13.0	7.5	.0	5.9	3.0
SW	2.5	8.8	2.7	.0	.0	.0		14.1	7.2	12.8	.0	14.1	10.9	13.9	45.8	12.8	18.3
W	3.5	13.4	3.8	.3	.0	.0		20.8	7.5	24.3	10.0	30.2	15.9	17.2	20.8	16.1	22.0
NW	2.7	20.9	6.0	.8	.0	.0		30.4	8.4	43.8	30.0	35.6	27.5	21.7	8.3	25.5	34.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.9							8.9	.0	8.3	20.0	4.3	7.2	15.1	.0	8.2	8.5
TOT OBS	131	315	78	6	0	0	530		6.6	72	5	92	69	106	6	98	82
TOT PCT	24.7	59.4	14.7	1.1	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	6.2	4.6	.2	.0	.0		11.0	7.0	5.2	10.6	15.2	11.4
NE	3.3	1.1	.0	.0	.0		4.4	5.1	1.9	2.8	3.6	7.5
E	1.8	.5	.0	.0	.0		2.3	4.2	3.2	.9	.9	3.9
SE	2.0	.3	.0	.0	.0		2.3	4.9	.0	3.3	4.9	.8
S	4.7	.9	.2	.0	.0		5.8	5.1	2.3	7.9	7.1	4.6
SW	8.2	4.9	1.0	.0	.0		14.1	7.2	12.0	12.7	15.6	15.3
W	10.7	9.0	.9	.1	.0		20.8	7.5	23.4	24.1	17.4	18.8
NW	12.5	16.2	1.6	.1	.0		30.4	8.4	42.9	32.1	21.0	29.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	8.9						8.9	.0	9.1	5.6	14.3	8.3
TOT OBS	309	199	21	1	0	530		6.6	77	161	112	180
TOT PCT	58.3	37.5	4.0	.2	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS) CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	9.1	20.8	49.4	18.2	2.6	.0	.0	7.0	100.0	77
06&09	7.6	13.0	64.6	15.5	1.2	.0	.0	7.1	100.0	161
12&15	14.3	17.9	54.4	12.5	.0	.0	.0	5.6	100.0	112
18&21	8.3	15.0	61.7	13.9	1.1	.0	.0	6.6	100.0	180
TOT	47	84	315	78	6	0	0	6.6		530
PCT	8.9	15.8	59.4	14.7	1.1	.0	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	1.9	.0	1.9		6.0
NE	.0	1.9	1.9	.0		4.5
E	.0	.0	.0	1.9		8.0
SE	.0	.0	2.4	.0		6.8
S	.0	.0	1.4	2.8		7.3
SW	1.9	.0	8.5	5.7		6.5
W	1.9	1.9	9.9	8.5		6.1
NW	1.9	7.5	13.7	15.1		6.1
VAR	.0	.0	.0	.0		.0
CALM	.0	1.9	5.7	.0		5.5
TOT OBS	3	8	23	19	53	6.2
TOT PCT	5.7	15.1	43.4	35.8	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	
NE	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.0	1.9	
E	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	
SE	.0	.0	.0	.0	.0	.0	1.9	.0	.0	.0	.5	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	
SW	.0	.0	.0	.5	2.8	.0	.0	.0	.0	.0	12.3	
W	.0	.0	.0	3.3	4.7	.0	.0	.0	.0	.0	14.2	
NW	.0	.0	.0	7.5	7.5	3.8	.0	.0	.0	.0	19.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0	5.7	
TOT OBS	0	0	0	7	9	2	1	0	1	0	33	53
TOT PCT	.0	.0	.0	13.2	17.0	3.8	1.9	.0	1.9	.0	62.3	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) • OR >10	• OR >5	• OR >2	• OR >1	• OR >1/2	• OR >1/4	• OR >90YD	• OR >0
• OR >6500	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
• OR >5000	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
• OR >3500	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
• OR >2000	5.5	9.1	9.1	9.1	9.1	9.1	9.1	9.1
• OR >1000	20.0	23.6	23.6	23.6	23.6	23.6	25.5	25.5
• OR >600	29.1	36.4	36.4	36.4	36.4	36.4	38.2	38.2
• OR >300	29.1	36.4	36.4	36.4	36.4	36.4	38.2	38.2
• OR >150	29.1	36.4	36.4	36.4	36.4	36.4	38.2	38.2
• OR > 0	29.1	36.4	36.4	36.4	36.4	36.4	38.2	38.2
TOTAL	16	20	20	20	20	20	21	21

TOTAL NUMBER OF OBS: 55 PCT FREQ NH <5/8: 61.8

TABLE 7A

PERCENTAGE FREQ OF CON CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
.0	10.0	16.7	16.7	18.3	6.7	11.7	5.0	15.0	.0	60

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.2	.5	.0	.0	.0	.7	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.2	.5	.0	.0	.0	.7	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	NO PCP	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.7	2.8	
	TOT %	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.7	2.8	
	PCP	.3	.0	.0	.0	.0	.0	.0	.3	.0	.0	.7	
2<5	NO PCP	.0	.3	.3	.0	.0	.0	.0	.7	.0	.0	1.4	
	TOT %	.3	.3	.3	.0	.0	.0	.0	1.0	.0	.0	2.1	
	PCP	2.4	.3	.0	.0	.0	1.0	.7	3.1	.0	.0	7.6	
5<10	NO PCP	6.2	2.8	1.4	1.4	1.7	2.1	2.8	7.9	.0	3.4	29.7	
	TOT %	8.6	3.1	1.4	1.4	1.7	3.1	3.4	11.0	.0	3.4	37.2	
	PCP	.0	.0	.0	.0	.0	.3	3.4	2.4	.0	.0	6.2	
10+	NO PCP	4.8	2.8	2.1	1.9	2.9	6.3	8.8	16.8	.0	2.8	51.0	
	TOT %	4.8	2.8	2.1	1.9	2.9	6.6	12.2	21.2	.0	2.8	57.2	
	TOT OBS												145
	TOT PCT	13.8	6.2	3.8	5.3	4.7	9.9	16.2	33.3	.0	6.9	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.1	.2	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3	.6	
1<2	4-10	.2	.2	.0	.6	.0	.0	.0	.3	.0		1.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.2	.0	1.0	.0	.0	.0	.3	.0	.3	1.9	
	0-3	.0	.2	.2	.0	.0	.0	.0	.0	.0	.3	.6	
2<5	4-10	.3	.2	.0	.0	.0	.2	.5	1.8	.0		2.9	
	11-21	.0	.0	.0	.0	.0	.0	.2	.5	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.3	.2	.0	.0	.2	.6	2.2	.0	.3	4.2	
	0-3	.6	.5	.3	.3	.2	.3	.5	.9	.0	1.6	4.8	
5<10	4-10	2.4	1.0	.3	.2	.3	1.3	1.8	4.6	.0		11.9	
	11-21	1.0	.0	.0	.2	.5	.0	.0	1.3	.0		2.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	4.0	1.4	.6	.6	1.0	1.6	2.2	6.4	.0	1.6	19.6	
	0-3	1.0	1.9	1.0	.3	.5	1.9	3.5	3.9	.0	7.1	20.2	
10+	4-10	6.4	2.9	.6	.6	1.8	7.5	9.3	18.8	.0		47.8	
	11-21	1.0	.0	.0	.0	.0	.7	1.7	2.7	.0		6.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	8.3	4.8	1.6	.9	2.3	9.9	14.5	24.6	.0	7.1	74.0	
	TOT OBS												312
	TOT PCT	12.8	6.7	2.4	2.5	3.8	11.8	17.6	33.6	.0	9.3	100.0	

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00Z03	.0	.0	.0	21.1	15.3	5.3	.0	.0	.0	.0	42.1	57.9	19
06Z09	.0	.0	.0	.0	10.0	10.0	.0	.0	.0	.0	20.0	80.0	10
12Z15	.0	.0	.0	6.3	12.5	6.3	6.3	.0	.0	.0	31.3	68.8	16
18Z21	.0	.0	.0	15.4	23.1	.0	.0	.0	7.7	.0	46.2	53.8	13
TOT	0	0	0	7	9	3	1	0	1	0	21	37	58
PCT	.0	.0	.0	12.1	15.5	5.2	1.7	.0	1.7	.0	36.2	63.8	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
00Z03	.0	.0	1.9	9.6	19.2	69.2	52
06Z09	.0	.0	2.6	3.8	28.2	65.4	78
12Z15	.0	.0	1.2	1.2	19.3	78.3	83
18Z21	.9	.0	1.7	3.5	21.7	72.2	115
TOT	1	0	6	13	73	235	328
PCT	.3	.0	1.8	4.0	22.3	71.6	100.0

TABLE 12

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

HOUR (GMT)	<150 <5UYD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00Z03	.0	.0	21.1	21.1	57.9	19
06Z09	.0	.0	.0	22.2	77.8	9
12Z15	.0	.0	7.1	28.6	64.3	14
18Z21	.0	7.7	23.1	23.1	53.8	13
TOT	0	1	8	13	34	55
PCT	.0	1.8	14.5	23.6	61.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	3.7	4.6	.0	.0	9	8.3
80/84	.0	.0	.0	.0	.9	16.5	46.8	11.0	82	75.2
75/79	.0	.0	.0	.0	.0	.0	10.1	6.4	18	16.5
TOTAL	0	0	0	0	5	23	62	19	109	100.0
PCT	.0	.0	.0	.0	4.6	21.1	56.9	17.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	1.8	.0	.0	.9	.9	.9	.0	2.8	.0	.9
	10.1	5.0	2.8	4.6	4.8	6.4	11.0	26.1	.0	4.6
	1.8	.0	.9	.0	.0	2.1	5.7	5.0	.0	.9
	13.8	5.0	3.7	5.5	5.7	9.4	16.7	33.9	.0	6.4

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00Z03	89	88	84	81	76	75	75	80.6	76
06Z09	89	88	87	82	79	75	73	82.4	160
12Z15	87	84	84	82	79	77	77	81.5	119
18Z21	88	85	83	81	76	74	73	80.3	179
TOT	89	88	85	81	77	75	73	81.2	536

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00Z03	.0	.0	.0	19.2	50.0	30.8	86	26
06Z09	.0	.0	13.3	30.0	43.3	13.3	80	30
12Z15	.0	.0	2.9	26.5	58.8	11.8	82	34
18Z21	.0	.0	.0	17.6	67.6	14.7	84	34
TOT	0	0	5	29	69	21	83	124

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TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.8	.0	1	.0	.8
6	.0	.8	.0	.0	.8	2	.0	1.6
4	.0	.0	.8	2.5	.0	4	.0	3.3
3	.0	.0	.0	.8	.8	2	.0	1.6
2	.0	.0	3.3	.0	.8	5	.8	3.3
1	.0	.0	4.9	2.5	.0	9	.0	7.4
0	.0	.0	13.1	.8	.0	17	.0	13.9
-1	.0	2.5	11.5	.0	.0	17	.0	13.9
-2	.0	9.0	15.6	.0	.0	30	.8	23.8
-3	.0	4.1	6.6	.0	.0	13	.0	10.7
-4	.0	6.6	.8	.0	.0	9	.0	7.4
-5	.8	.0	2.5	.0	.0	4	.0	3.3
-6	.0	3.3	.8	.0	.0	5	.0	4.1
-7/-8	.8	1.6	.0	.0	.0	3	.0	2.5
-11/-13	.0	.8	.0	.0	.0	1	.0	.8
TOTAL	2		73		3		2	120
		35		9		122		
PCT	1.6	28.7	59.8	7.4	2.5	100.0	1.6	98.4

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	6.7	.0	.0	.0	.0	6.7
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.7	.0	.0	.0	.0	6.7

NE

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

E

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

SE

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

PERIOD: (OVER-ALL) 1963-1971 DECEMBER AREA 0004 NORTHWEST JAVA SEA

TABLE 18 (CONT) 3.0S 106.0E

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

S

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

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	3.3	.8	.0	.0	.0	.0	4.2
1-2	.0	6.7	.0	.0	.0	.0	6.7
3-4	.0	6.7	.0	.0	.0	.0	6.7
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.3	14.2	.0	.0	.0	.0	17.5

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	6.7	2.5	.0	.0	.0	.0	9.2
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	3.3	.0	.0	.0	3.3
5-6	.0	3.3	.0	.0	.0	.0	3.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	6.7	5.8	3.3	.0	.0	.0	15.8

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.3	.0	.0	.0	.0	3.3
1-2	3.3	23.3	6.7	.0	.0	.0	33.3
3-4	.0	6.7	.0	.0	.0	.0	6.7
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.3	33.3	6.7	.0	.0	.0	43.3

HGT	TOTAL PCT
<1	3.3
1-2	33.3
3-4	6.7
5-6	.0
7	.0
8-9	.0
10-11	.0
12	.0
13-16	.0
17-19	.0
20-22	.0
23-25	.0
26-32	.0
33-40	.0
41-48	.0
49-60	.0
61-70	.0
71-86	.0
87+	.0
TOT PCT	86.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	28.1	9.4	.0	.0	.0	.0	37.5	
1-2	3.1	34.4	6.3	.0	.0	.0	43.8	
3-4	.0	12.5	3.1	.0	.0	.0	15.6	
5-6	.0	3.1	.0	.0	.0	.0	3.1	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	31.3	59.4	9.4	.0	.0	.0	100.0	32

PERIOD: (OVER-ALL) 1949-1971 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	10.6	31.9	17.0	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	2
6-7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
10-11	.0	2.1	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	10
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	19.1	6.4	6.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	1
TOTAL	14	19	11	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47	2
PCT	29.8	40.4	23.4	4.3	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1888-1973
(OVER-ALL) 1854-1973

AREA 0004 NORTHWEST JAVA SEA
3.6S 106.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	9.2	6.7	3.3	.0	.0	.0	.0	19.2	.0	7.3	3.5	.0	1.8		.0	69.9
NE	3.6	3.8	.4	.0	.0	.0	.0	7.8	1.6	11.8	6.3	.0	1.2		.0	73.1
E	.7	1.5	.6	.0	.0	.0	.0	2.7	3.1	5.2	.9	.0	.5		.0	87.7
SE	2.6	5.8	.2	.0	.0	.0	.3	8.9	.9	5.4	5.3	.0	3.7		.0	77.0
S	6.0	1.9	1.8	.0	.0	.0	.0	9.2	1.2	7.8	3.0	.0	.0		.0	80.2
SW	7.6	3.6	.8	.0	.0	.0	.0	12.0	5.1	6.3	.3	.0	.0		.0	76.5
W	8.8	4.0	.5	.0	.0	.0	.0	13.0	1.9	5.7	.3	.0	.0		.0	80.9
NW	5.5	7.3	.4	.0	.0	.0	.0	13.2	1.9	4.2	.5	6.3	.8		.0	63.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.5	.0	.0	.0	.0	.0	.5	1.4	9.0	.0	.0	.6		.0	88.5
TOT PCT	4.2	4.3	.8	.0	.0	.0	.1	9.3	1.9	6.7	1.9	*	.9		.0	80.6
TOT OBS:	2130															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00E03	4.2	6.1	.9	.0	.0	.0	.0	11.3	3.9	1.4	1.7	.0	.6		.0	81.8
06E09	6.0	5.0	.4	.0	.0	.0	.2	9.4	1.6	1.2	1.2	.0	1.4		.0	85.4
12E15	4.1	1.6	1.4	.0	.0	.0	.0	6.8	1.3	9.8	1.7	.0	.6		.0	80.8
18E21	5.8	5.9	.5	.0	.0	.0	.0	12.2	1.2	12.1	2.6	.1	.9		.0	73.4
TOT PCT	4.6	4.6	.8	.0	.0	.0	*	9.9	1.5	6.9	1.9	*	.9		.0	79.8
TOT OBS:	2281															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.2	5.0	1.3	*	.0	.0		7.5	6.5	6.9	6.1	5.8	6.8	8.2	10.5	8.9	7.8
NE	1.5	4.5	.7	*	.0	.0		6.7	6.3	4.2	4.9	3.6	4.7	6.9	2.6	11.2	9.3
E	2.3	12.1	3.5	*	.0	.0		17.9	6.4	17.7	22.5	16.1	17.6	18.0	22.9	18.5	18.8
SE	1.8	14.4	4.6	.2	.0	.0		20.9	7.0	20.9	23.4	20.7	26.6	24.3	21.3	18.5	15.6
S	1.7	4.0	1.1	*	.0	.0		7.7	6.4	7.7	9.5	8.8	11.4	10.2	10.1	7.3	7.0
SW	1.5	5.2	1.5	.1	.0	.0		8.3	7.7	9.6	6.5	10.1	7.9	6.7	9.4	7.1	8.0
W	1.2	5.9	1.7	.1	.0	.0		8.9	7.7	10.1	10.8	12.0	6.7	6.2	7.8	7.9	9.9
NW	1.3	9.2	3.0	.1	.0	.0		13.6	7.0	17.3	12.8	16.5	11.3	10.1	9.8	12.3	15.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.5							7.5	.0	5.6	3.5	6.4	7.0	9.5	5.6	8.3	8.1
TOT OBS							6718		7.1	960	95	1414	735	1173	91	1276	972
TOT PCT	20.0	62.2	17.2	.6	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.8	3.5	.2	*	.0		7.5	6.5	6.8	6.2	8.3	8.4
NE	4.1	2.4	.1	*	.0		6.7	6.3	4.3	4.0	6.7	10.4
E	7.6	9.7	.5	*	.0		17.9	6.4	18.1	16.7	18.4	18.6
SE	8.2	11.6	1.0	*	.0		20.9	7.0	21.2	22.6	24.0	17.3
S	5.2	2.4	.2	*	.0		8.7	6.4	7.8	9.8	10.3	7.2
SW	4.3	3.6	.3	.0	.0		8.3	7.7	9.2	9.3	6.8	7.5
W	4.4	4.1	.4	*	.0		8.9	7.7	10.0	10.1	6.3	8.8
NW	5.6	7.3	.7	*	.0		13.6	7.0	17.0	14.5	10.0	13.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	7.5						7.5	.0	5.4	6.6	9.2	8.2
TOT OBS						6718		7.1	1055	2149	1266	2248
TOT PCT	50.8	45.7	3.5	.1	.0		100.0		100.0	100.0	100.0	100.0

ANNUAL

PERIOD: (PRIMARY) 1886-1973
(OVER-ALL) 1854-1973

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	5.4	13.3	62.5	17.8	1.0	.0	.0	7.4	100.0	1055
06&09	6.6	13.2	61.1	18.8	.3	.0	.0	7.2	100.0	2149
12&15	9.2	13.1	62.0	15.3	.3	.0	.0	6.6	100.0	1266
18&21	8.2	11.1	63.4	16.5	.8	.0	.0	7.1	100.0	2248
TOT								7.1		6718
PCT	7.5	12.5	62.2	17.2	.6	.0	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.9	1.4	2.7	2.6		4.8
NE	1.0	1.9	2.0	.8		4.4
E	5.8	4.3	6.3	1.5		4.1
SE	5.4	6.5	8.6	1.8		4.9
S	.6	2.0	3.6	2.2		5.6
SW	.6	1.3	3.9	3.7		6.4
W	.8	1.6	3.5	2.5		5.8
NW	.6	2.2	6.2	4.6		5.9
VAR	.0	.0	.0	.0		.0
CALM	1.6	.7	3.6	.5		3.9
TOT OBS					965	5.0
TOT PCT	17.5	22.0	40.5	20.0	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.3	.6	1.0	.9	.0	.1	.0	.0	5.4	
NE	.0	.0	.0	.2	.8	.3	.1	.1	.2	.0	3.9	
E	.0	.0	.0	1.0	1.4	.5	.3	.1	.0	.0	14.8	
SE	.1	.0	.2	1.2	1.2	.9	.6	.1	.0	.3	17.8	
S	.0	.0	.2	.6	1.3	.5	.3	.1	.0	.1	5.1	
SW	.0	.0	.2	1.2	2.1	.0	.2	*	.0	.0	5.2	
W	.1	.0	.2	.6	1.7	.4	.1	.1	.0	.0	5.4	
NW	*	.1	.1	1.4	2.3	.9	.4	.1	.0	.0	8.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.3	.9	.2	.3	.0	.0	.0	4.7	
TOT OBS												965
TOT PCT	.2	.1	1.2	7.1	12.7	4.5	2.6	.7	.2	.4	70.4	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >5GYD	* OR >0
* OR >6500	.6	.6	.6	.6	.6	.6	.6	.6
* OR >5000	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.2
* OR >3500	3.1	3.8	3.8	3.9	3.9	3.9	3.9	3.9
* OR >2000	6.6	8.4	8.4	8.5	8.5	8.5	8.5	8.5
* OR >1000	16.8	20.1	20.6	20.7	20.7	20.7	20.9	20.9
* OR >600	21.7	26.8	27.6	27.9	27.9	27.9	28.0	28.0
* OR >300	21.9	27.6	28.7	29.0	29.0	29.0	29.1	29.1
* OR >150	21.9	27.6	28.8	29.1	29.1	29.1	29.2	29.2
* OR > 0	21.9	27.7	29.0	29.2	29.2	29.2	29.4	29.4

TOTAL NUMBER OF OBS: 994

PCT FREQ NH <5/8: 70.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
9.9	13.1	23.2	17.4	11.5	8.0	6.7	5.8	9.0 .2	1065

PERIOD: (PRIMARY) 1888-1973
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	*	*	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	*	*	.0	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	*	*	*	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.1	*	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.1	.1	*	*	.0	.0	.0	.0	.2	
1<2	PCP	.0	*	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.2	.1	.1	.4	.0	.0	.0	*	.0	.1	.9	
	TOT %	.2	.2	.1	.5	.0	.0	.0	*	.0	.1	1.0	
2<5	PCP	.2	.3	*	.1	*	.2	.3	.3	.0	.0	1.2	
	NO PCP	*	.2	.1	.1	.2	*	*	.1	.0	.0	.7	
	TOT %	.3	.2	.1	.2	.2	.2	.4	.4	.0	.0	1.9	
5<10	PCP	.9	.4	.5	.7	.7	.6	.5	1.3	.0	*	5.6	
	NO PCP	3.4	3.0	4.6	5.8	3.0	1.9	1.9	3.4	.0	1.4	28.4	
	TOT %	4.3	3.4	5.1	6.5	3.7	2.5	2.3	4.8	.0	1.5	34.1	
10+	PCP	.3	.2	.1	.1	.2	.2	.5	.6	.0	.0	2.1	
	NO PCP	4.6	4.1	13.5	13.6	4.8	4.6	4.6	7.3	.0	3.6	60.6	
	TOT %	4.9	4.3	13.6	13.7	5.0	4.8	5.1	7.8	.0	3.6	62.7	
	TOT OBS												2128
	TOT PCT	9.7	8.0	19.0	20.9	8.9	7.4	7.8	13.0	.0	5.2	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	.2	.0	.0	.0	.0	.0		.3	
	11-21	.0	.0	.0	*	.0	*	*	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.1	.2	.0	*	*	.0	.0	.0	.3	
1/2<1	0-3	.0	.0	*	*	*	*	.0	.0	.0	.0	.1	
	4-10	.0	.0	*	*	*	.1	.0	*	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.1	*	*	.1	.0	*	.0	.0	.3	
1<2	0-3	*	*	*	*	.0	.0	.0	.0	.0	.1	.2	
	4-10	*	.1	*	.2	.0	.0	.0	*	.0		.3	
	11-21	.1	.0	*	*	.0	.0	*	*	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.1	.1	.3	.0	.0	*	.1	.0	.1	.7	
2<5	0-3	*	*	*	.1	*	.0	.0	*	.0	.1	.3	
	4-10	.1	.1	*	.1	.1	.1	.2	.3	.0		1.0	
	11-21	.1	.0	*	.1	*	*	.1	.1	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.1	.1	.2	.1	.1	.3	.5	.0	.1	1.8	
5<10	0-3	.4	.4	.3	.3	.4	.2	.1	.2	.0	1.0	3.1	
	4-10	1.7	1.6	2.5	2.9	1.7	1.2	1.2	2.2	.0		14.9	
	11-21	.4	.2	.6	1.2	.3	.3	.3	.5	.0		3.8	
	22+	*	.0	.0	.0	.0	.0	*	*	.0		.1	
	TOT %	2.5	2.1	3.4	4.4	2.4	1.6	1.6	2.9	.0	1.0	21.9	
10+	0-3	.8	1.1	1.7	1.2	1.0	1.1	.9	1.0	.0	6.3	15.2	
	4-10	3.9	3.6	10.9	11.7	4.1	3.4	3.8	6.9	.0		48.4	
	11-21	.9	.4	2.6	3.5	.5	1.0	.7	1.8	.0		11.4	
	22+	*	.0	.0	.1	.0	.0	*	*	.0		.1	
	TOT %	5.6	5.1	15.2	16.4	5.7	5.5	5.5	9.7	.0	6.3	75.1	
	TOT OBS												3668
	TOT PCT	8.4	7.5	18.9	21.6	8.2	7.4	7.5	13.2	.0	7.4	100.0	

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PERIOD: (PRIMARY) 1888-1973
(OVER-ALL) 1854-1973

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	.3	.7	8.3	14.0	5.1	1.4	.6	.0	.3	30.8	69.2	264
06E09	.0	.0	.7	7.2	11.5	5.4	2.9	.7	.0	.7	29.1	70.9	235
12E15	.0	.0	1.4	5.3	10.5	3.5	3.1	.8	.0	.0	24.7	75.3	273
18E21	.5	.0	1.7	6.5	11.1	3.8	2.8	.3	.6	.9	28.3	71.7	271
TOT PCT	.2	.1	1.1	6.8	11.8	4.4	2.6	.6	.1	.4	28.0	72.0	1043 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.4	.3	.9	3.5	20.2	74.7	654
06E09	.3	.2	.7	1.0	23.9	73.9	92[illegible]
12E15	.3	.1	.4	1.3	19.6	78.3	898
18E21	.4	.3	.7	1.6	26.4	70.6	1338
TOT PCT	.3	.2	.7	1.7	23.1	73.9	3819 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 <500	<600 <1	<1000 <3	1000+ AND 3+	NH <5/8 AND 3+	TOTAL OBS
00E03	.0	1.1	11.5	20.5	68.0	256
06E09	.0	.8	9.0	21.3	69.7	225
12E15	.0	1.5	7.5	19.1	73.4	260
18E21	.0	3.1	10.4	20.3	69.3	253
TOT PCT	.2	1.5	9.6	20.1	70.3	994 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY 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	.3	.2	.0	.0		.5
85/89	.0	.0	.0	.0	2.3	5.3	2.0	.3		9.9
80/84	.0	.0	.0	.0	1.8	29.1	41.7	7.6		80.2
75/79	.0	.0	.0	.0	.0	.8	4.1	4.3		9.2
70/74	.0	.0	.0	.0	.0	.0	.1	.1		.2
TOTAL PCT	.0	.0	.0	.1	4.4	35.3	47.8	12.4	1631	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.1	.0	.1	.1	[illegible]	.1	[illegible]	.0	.0
.7	.5	2.1	2.9	1.0	.5	.3	.9	.0	1.0
8.1	7.2	14.9	17.6	6.8	5.6	5.5	10.0	.0	4.5
1.3	.4	.5	1.1	.9	1.2	1.7	2.0	.0	.1
.0	.1	.0	.0	.0	.1	.1	.0	.0	.0
10.2	8.3	17.5	21.7	8.8	7.4	7.6	12.9	.0	5.7

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	92	87	85	82	78	75	73	81.7	1038
06E09	95	90	88	83	79	77	73	83.3	2146
12E15	90	85	84	82	79	77	75	81.9	1281
18E21	90	84	83	82	78	76	72	81.2	2259
TOT	95	89	86	82	79	76	72	82.1	6744

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	1.0	38.6	47.8	14.5	82	348
06E09	.0	.2	12.6	44.3	35.5	7.3	78	404
12E15	.0	.0	2.7	38.8	49.4	11.1	82	419
18E21	.0	.0	1.9	26.3	55.9	15.9	83	599
TOT	0	1	78	821	851	219	81	1770

PERIOD: (PRIMARY) 1888-1973
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TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
9/10	.0	.0	.0	*	.1	.0	2	.0	.1
7/8	.0	.0	.0	.1	.2	.0	5	.0	.3
6	.0	.1	.1	.1	.2	.0	9	.0	.5
5	.0	*	.1	.4	.2	.0	14	.0	.7
4	.0	.0	.5	1.4	.2	.0	37	.0	2.0
3	.0	.0	.4	.8	.1	.0	23	.1	1.2
2	.1	.0	3.8	1.7	.1	.1	105	.1	5.7
1	.0	.1	6.6	1.9	.1	.0	160	.1	8.5
0	.0	1.2	16.8	1.9	.0	.0	300	.9	18.9
-1	.0	1.8	15.2	1.0	.0	.0	329	.2	17.8
-2	.0	3.9	15.2	.2	.0	.0	348	.2	19.1
-3	.0	2.8	5.8	.2	.0	.0	161	.1	8.7
-4	.1	3.9	3.6	.2	.0	.0	142	.1	7.6
-5	.3	1.3	2.1	.0	.0	.0	69	.0	3.7
-6	.1	.6	.7	.0	.0	.0	26	.0	1.4
-7/-8	.2	.9	.4	.0	.0	.0	29	.0	1.5
-9/-10	.2	.1	.0	.0	.0	.0	5	.0	.3
-11/-13	.1	.1	.0	.0	.0	.0	4	.0	.2
TOTAL							1827		
PCT	1.1	16.8	71.2	9.7	1.1	.1	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)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.6	.0	.0	.0	.0	2.1
1-2	.0	4.0	.5	.0	.0	.0	4.5
3-4	.1	.2	1.1	.0	.0	.0	1.5
5-6	.0	.0	.4	.2	.0	.0	.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	5.8	2.1	.2	.0	.0	8.6

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.0	.0	.0	.0	.0	1.5
1-2	.9	1.6	.3	.0	.0	.0	2.1
3-4	*	.2	*	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	2.8	.4	.0	.0	.0	3.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	2.6	.0	.0	.0	.0	3.2
1-2	.0	6.6	1.4	.0	.0	.0	8.0
3-4	.2	3.4	2.5	.0	.0	.0	6.0
5-6	.0	.5	.7	.0	.0	.0	1.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	12.9	4.5	.0	.0	.0	18.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	2.4	.2	.0	.0	.0	3.2
1-2	.7	8.8	2.5	.0	.0	.0	12.0
3-4	.0	2.1	2.8	.3	.0	.0	5.2
5-6	.0	.4	1.6	.0	.0	.0	2.0
7	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	13.7	7.7	.3	.0	.0	23.1

PERIOD: (OVER-ALL) 1963-1973

ANNUAL

TABLE 18 (CONT)

AREA 0004 NORTHWEST JAVA SEA
3.6S 105.6E

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.5	.0	.0	.0	.0	.8
1-2	.5	3.6	.0	.0	.0	.0	4.1
3-4	.1	.9	.6	.0	.0	.0	1.6
5-6	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	5.1	.9	.0	.0	.0	6.9

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.5	.0	.0	.0	.0	2.3
1-2	.4	4.3	.4	.0	.0	.0	5.1
3-4	.0	1.8	.9	.0	.0	.0	2.7
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	7.6	1.6	.0	.0	.0	10.5

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.8	.0	.0	.0	.0	1.4
1-2	.3	2.1	.8	.0	.0	.0	3.1
3-4	.0	1.2	.6	.0	.0	.0	1.9
5-6	.0	.4	.0	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	4.5	1.4	.0	.0	.0	6.8

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.6	.0	.0	.0	.0	1.1	
1-2	.4	6.9	2.0	.0	.0	.0	9.3	
3-4	.0	1.0	1.9	.0	.0	.0	2.9	
5-6	.0	.0	1.0	.1	.0	.0	1.0	
7	.0	.0	.2	.0	.0	.0	.2	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.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	9.8	5.1	.1	.0	.0	14.9	92.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	13.1	11.1	.2	.0	.0	.0	24.3	
1-2	3.0	37.1	7.6	.0	.0	.0	47.7	
3-4	.5	10.5	10.1	.3	.0	.0	21.4	
5-6	.0	1.3	4.1	.2	.0	.0	5.5	
7	.0	.0	.8	.0	.0	.0	.8	
8-9	.0	.0	1	.0	.0	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								573
TOT PCT	16.6	59.9	22.9	.5	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	13.8	34.0	19.0	4.5	.9	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	609	2
6-7	.0	1.3	4.7	1.4	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	74	4
8-9	.0	.4	.4	.1	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	4
10-11	.0	.3	.1	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	6
12-13	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	3
>13	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
INDET	11.2	3.0	2.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	139	1
TOTAL																				844	2
PCT	24.9	39.1	27.0	6.6	2.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1888-1973
(OVER-ALL) 1854-1973

AREA 0004 NORTHWEST JAVA SEA
3.0S 106.0E

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	.4	.4	.0	.0	.0	.0	.0	.0	.0	4	.1
89/90	.0	.0	.0	.6	.6	.8	.0	.0	.0	.7	.4	.2	17	.3
87/88	.4	.2	2.1	6.7	6.4	5.0	.8	.2	.9	1.3	1.5	2.1	140	2.3
85/86	3.0	5.5	16.1	25.6	34.5	16.8	8.2	4.5	4.3	16.5	18.4	7.6	829	13.4
83/84	23.1	29.6	36.5	48.3	42.7	48.1	36.7	31.5	36.9	42.9	55.5	33.9	2383	38.5
81/82	54.0	50.5	35.8	18.2	13.4	25.0	47.4	51.3	47.7	33.6	21.5	47.8	2293	37.1
79/80	15.1	18.8	8.9	.2	1.2	3.2	9.4	10.9	8.9	4.6	2.6	7.2	440	7.1
77/78	3.8	.7	.7	.0	.8	.8	1.2	1.4	1.4	.4	.2	.6	62	1.0
75/76	.4	.5	.0	.0	.0	.2	.2	.2	.0	.0	.0	.2	8	.1
73/74	.2	.2	.0	.0	.0	.2	.2	.0	.0	.0	.0	.2	5	.1
71/72	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	1	*
69/70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
67/68	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
65/66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
63/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	498	420	576	489	499	505	502	558	575	541	544	475	6182	100.0
MEAN	81.6	81.8	82.8	84.0	84.1	83.4	82.4	82.1	82.2	83.0	83.4	82.4	82.7	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MT	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1011	1009	1010	1007	1010	1009	1010	1009	1010	183
FEB	1010	1011	1010	1008	1009	1009	1010	1010	1010	163
MAR	1011	1009	1010	1008	1009	1011	1011	1009	1010	255
APR	1009	1010	1009	1008	1009	1011	1010	1009	1009	203
MAY	1010	1007	1009	1007	1009	1010	1009	1009	1009	223
JUN	1010	1010	1010	1008	1010	1009	1010	1009	1010	237
JUL	1011	1012	1010	1009	1009	1010	1010	1010	1010	239
AUG	1011	1011	1010	1009	1010	1010	1010	1010	1010	249
SEP	1011	1011	1010	1009	1010	1011	1010	1010	1010	211
OCT	1011	1011	1010	1010	1010	1012	1010	1010	1010	198
NOV	1010	1010	1009	1009	1010	1009	1010	1008	1010	219
DEC	1011	1010	1009	1008	1010	1009	1010	1009	1010	185
ANN	1011	1010	1010	1008	1010	1010	1010	1009	1010	2565
OBS	392	67	590	217	462	78	507	252		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	1004	1005	1006	1008	1010	1011	1012	1012	1013
FEB	1005	1005	1006	1009	1010	1011	1012	1013	1014
MAR	1005	1005	1007	1009	1010	1011	1013	1013	1014
APR	1005	1005	1006	1008	1009	1010	1012	1014	1015
MAY	1005	1006	1006	1008	1009	1010	1012	1013	1015
JUN	1005	1006	1007	1009	1010	1011	1012	1014	1015
JUL	1006	1006	1008	1009	1010	1011	1013	1013	1014
AUG	1006	1006	1007	1009	1010	1011	1012	1013	1014
SEP	1006	1006	1008	1009	1010	1011	1013	1013	1014
OCT	1006	1006	1007	1009	1010	1011	1013	1013	1014
NOV	1005	1006	1007	1008	1010	1011	1012	1013	1014
DEC	1004	1005	1006	1008	1010	1011	1013	1013	1014

JANUARY

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

AREA 0005 BANGKA ISLAND NORTHWEST
.7S 105.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	3.2	8.5	.0	.0	.0	.0	.0	11.7	2.7	1.2	3.5	.0	.0	.0	.0	80.9
NE	5.8	2.2	.0	.0	.0	.0	.0	8.0	1.4	.4	3.6	.0	.0	.0	.0	88.6
E	3.5	.0	.0	.0	.0	.0	.0	3.5	.0	.0	.0	.0	.0	.0	.0	96.5
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
S	20.0	40.0	.0	.0	.0	.0	.0	60.0	.0	.0	.0	.0	.0	.0	.0	40.0
SW	6.7	26.7	.0	.0	.0	.0	.0	33.3	.0	.0	.0	.0	.0	.0	.0	66.7
W	17.0	12.8	2.1	.0	.0	.0	.0	31.9	8.5	4.3	.0	.0	.0	.0	.0	59.6
NW	3.8	13.2	.6	.0	.0	.0	.0	17.6	2.8	.0	3.1	.0	.0	.0	.0	76.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	12.5	.0	.0	.0	.0	.0	12.5	.0	.0	.0	.0	.0	.0	.0	87.5
TOT PCT	4.8	8.8	.3	.0	.0	.0	.0	14.0	2.8	.9	2.8	.0	.0	.0	.0	80.1
TOT OBS:	351															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	4.1	13.5	.0	.0	.0	.0	.0	17.6	4.1	1.4	1.4	.0	.0	.0	.0	77.0
06&09	4.3	12.0	.0	.0	.0	.0	.0	16.2	1.7	.0	3.4	.0	.0	.0	.0	78.6
12&15	3.8	5.1	.0	.0	.0	.0	.0	8.9	1.3	1.3	2.5	.0	.0	.0	.0	86.1
18&21	8.4	6.3	1.1	.0	.0	.0	.0	15.8	3.2	1.1	3.2	.0	.0	.0	.0	76.8
TOT PCT	5.2	9.3	.3	.0	.0	.0	.0	14.8	2.5	.8	2.7	.0	.0	.0	.0	79.5
TOT OBS:	365															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.0	24.3	15.0	.8	.0	.0		42.1	10.2	38.9	37.5	39.9	42.2	47.4	38.9	42.4	41.8
NE	1.3	11.5	4.4	.3	.0	.0		17.5	9.0	14.4	.0	13.0	14.7	20.4	27.8	22.7	20.6
E	.6	1.7	.2	.0	.0	.0		2.5	6.1	2.0	.0	1.8	1.6	3.1	.0	4.4	2.1
SE	.4	.5	.0	.0	.0	.0		.9	3.8	1.5	.0	.9	1.6	.5	.0	.6	.7
S	.3	.7	.1	.0	.0	.0		1.1	5.4	1.8	.0	.5	1.3	1.0	.0	.6	2.1
SW	.4	1.2	.1	.0	.0	.0		1.8	5.2	3.0	25.0	.9	1.3	.5	.0	2.0	3.2
W	.8	3.9	1.0	.1	.0	.0		5.8	8.1	6.8	.0	10.1	4.9	2.3	5.6	4.4	5.3
NW	1.7	16.5	6.2	.2	.1	.0		24.6	9.0	29.1	37.5	29.8	29.7	20.1	27.8	17.7	19.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.7							3.7	.0	2.4	.0	3.2	2.6	4.6	.0	5.2	4.3
TOT OBS	118	638	286	16	1	0	1059		8.9	165	4	221	193	194	9	172	141
TOT PCT	11.1	60.2	27.0	1.5	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	9.9	26.9	5.2	*	.0		42.1	10.2	38.9	40.8	47.0	42.2
NE	5.2	11.4	.8	*	.0		17.5	9.0	14.1	13.7	20.7	21.7
E	1.5	1.0	.0	.0	.0		2.5	6.1	1.9	1.7	3.0	3.4
SE	.9	*	.0	.0	.0		.9	3.8	1.5	1.2	.5	.6
S	.8	.3	.0	.0	.0		1.1	5.4	1.8	.8	1.0	1.3
SW	1.5	.3	.0	.0	.0		1.8	5.2	3.6	1.1	.5	2.6
W	2.5	2.8	.4	.0	.0		5.8	8.1	6.7	8.0	2.5	4.8
NW	7.5	15.9	1.2	.1	.0		24.6	9.0	29.3	29.7	20.4	18.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.7						3.7	.0	2.4	2.9	4.4	4.8
TOT OBS	355	621	81	2	0	1059		8.9	169	274	203	313
TOT PCT	33.5	58.6	7.6	.2	.0		100.0		100.0	100.0	100.0	100.0

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

AREA 0005 BANGKA ISLAND NORTHWEST
.7S 105.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00603	2.4	8.9	59.8	28.4	.6	.0	.0	8.5	100.0	169
06609	2.9	8.0	57.5	29.1	2.1	.3	.0	9.2	100.0	374
12615	4.4	8.9	56.7	28.1	2.0	.0	.0	8.9	100.0	203
18621	4.8	5.1	66.1	23.0	1.0	.0	.0	8.6	100.0	313
TOT	49	79	638	286	16	1	0	8.9		1059
PCT	3.7	7.5	60.2	27.0	1.5	.1	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	6.9	3.9	28.0	9.7		5.8
NE	2.1	5.3	6.0	4.6		5.6
E	.0	1.6	.9	.9		5.6
SE	.0	.0	.9	.0		5.0
S	.0	.0	.0	.0		.0
SW	.0	.0	.9	.0		5.0
W	.0	.0	1.9	4.4		7.4
NW	1.2	4.9	6.7	5.3		5.8
VAR	.0	.0	.0	.0		.0
CALM	.0	.9	1.9	.9		6.2
TOT OBS	11	18	51	28	108	5.8
TOT PCT	10.2	16.7	47.2	25.9	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	1.6	4.4	2.5	3.7	.7	.7	.0	35.0	
NE	.0	.0	.9	1.2	3.0	.0	.0	.2	.0	.0	12.7	
E	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	2.5	
SE	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
SW	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	
W	.0	.0	.0	2.8	.9	.9	.0	.0	.0	.0	1.6	
NW	.0	.0	.0	1.9	.9	1.2	.0	.0	.2	.0	13.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0	1.9	
TOT OBS	0	0	1	10	13	5	4	1	1	0	73	108
TOT PCT	.0	.0	.9	9.3	12.0	4.6	3.7	.9	.9	.0	67.6	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) • OR >10	• OR >5	• OR >2	• OR >1	• OR >1/2	• OR >1/4	• OR >50YD	• OR >0
• OR >6500	.9	.9	.9	.9	.9	.9	.9	.9
• OR >5000	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
• OR >3500	4.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
• OR >2000	8.3	10.2	10.2	10.2	10.2	10.2	10.2	10.2
• OR >1000	15.7	21.3	22.2	22.2	22.2	22.2	22.2	22.2
• OR >600	22.2	27.8	29.6	30.6	31.5	31.5	31.5	31.5
• OR >300	22.2	28.7	30.6	31.5	32.4	32.4	32.4	32.4
• OR >150	22.2	28.7	30.6	31.5	32.4	32.4	32.4	32.4
• OR > 0	22.2	28.7	30.6	31.5	32.4	32.4	32.4	32.4
TOTAL	24	31	33	34	35	35	35	35

TOTAL NUMBER OF OBS: 108 PCT FREQ NH <5/8: 67.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
1.7	10.4	21.7	15.7	19.1	9.6	8.7	6.1	7.0	.0	115

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PERIOD: (PRIMARY 1914-1973
(OTHER-ALL) 1959-1973

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.75 105.0E

TABLE 9

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.1	.0	.0	.0	.0	.1	.0	.0	.0	.3	
	TOT %	.2	.2	.0	.0	.0	.0	.1	.0	.0	.0	.4	
1/2<1	PCP	.3	.1	.1	.1	.0	.0	.3	.0	.0	.0	.6	
	NO PCP	.11	.14	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.4	.4	.0	.0	.0	.0	.3	.0	.0	.0	1.4	
1<2	PCP	.1	.1	.0	.0	.0	.0	.6	.0	.0	.0	1.1	
	NO PCP	.11	.10	.0	.0	.0	.0	.0	.0	.0	.0	.9	
	TOT %	.9	.1	.0	.0	.0	.0	.6	.0	.0	.0	1.6	
2<5	PCP	.1	.1	.0	.0	.0	.0	.3	.0	.0	.0	.3	
	NO PCP	.4	.11	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.4	.4	.0	.0	.0	.0	.3	.0	.0	.0	1.4	
5<10	PCP	4.0	1.6	.1	.0	.1	.4	.3	3.4	.0	.3	10.3	
	NO PCP	14.3	9.4	.0	.0	.3	.0	.0	6.2	.0	.0	34.2	
	TOT %	18.3	9.0	.1	.0	.4	.4	.3	10.6	.0	.1	44.4	
10+	PCP	.3	.0	.0	.0	.3	.3	.9	.1	.0	.0	1.7	
	NO PCP	20.6	9.1	2.0	1.4	.0	.4	9.4	9.9	.0	.0	49.6	
	TOT %	20.9	9.1	2.0	1.4	.3	.7	4.3	9.9	.0	.1	51.3	
TOT OBS													391
TOT PCT		49.3	19.7	4.1	1.4	.7	2.1	8.7	22.7	.0	2.3	100.0	

TABLE 9

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

VSBY (NM)	SPD (KTS)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.4	.0	.0	.0	.0	.4	.0	.0		.6	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.2	.0	.0		.2	
	TOT %	.2	.4	.0	.0	.0	.0	.6	.0	.0	.0	.8	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.2	.0	.0	.0	.0	.0	.4	.0	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.0	.0	.0	.0	.0	.4	.0	.0	.0	.6	
2<5	0-3	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.2	
	4-10	.3	.0	.0	.0	.0	.0	.2	.0	.0		.6	
	11-21	.2	.2	.0	.0	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.5	.4	.0	.0	.0	.0	.2	.0	.0	.0	1.2	
5<10	0-3	.1	.2	.2	.0	.2	.0	.1	.2	.0	.9	1.7	
	4-10	.4	3.1	.3	.0	.0	.2	.9	6.9	.0		15.7	
	11-21	3.7	1.9	.2	.0	.0	.0	.2	2.3	.0		8.2	
	22+	.5	.2	.0	.0	.0	.0	.0	.1	.0		.8	
	TOT %	10.7	5.2	.7	.0	.2	.2	1.1	7.3	.0	.9	26.3	
10+	0-3	.8	.8	.4	.5	.2	.5	.8	1.1	.0	2.4	7.6	
	4-10	17.9	8.8	1.4	.5	.3	1.1	5.5	12.6	.0		48.9	
	11-21	10.4	2.3	.0	.0	.0	.1	.8	3.1	.0		16.8	
	22+	.3	.2	.0	.0	.0	.1	.1	.1	.0		.6	
	TOT %	29.4	12.1	1.9	1.0	.5	1.7	5.1	16.7	.0	2.4	70.7	
TOT OBS													662
TOT PCT		41.0	18.1	2.9	1.0	.7	1.9	6.7	24.7	.0	3.3	100.0	

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

AREA 0005 BANGKA ISLAND NORTHWEST
.7S 105.0E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	.0	9.4	6.3	9.4	6.3	.0	3.1	.0	34.4	65.6	32
06E09	.0	.0	.0	9.1	15.2	.0	.0	3.0	.0	.0	27.3	72.7	33
12E15	.0	.0	.0	6.7	16.7	3.3	6.7	.0	.0	.0	33.3	66.7	30
18E21	.0	.0	5.3	10.5	5.3	5.3	.0	.0	.0	.0	26.3	73.7	19
TOT	0	0	1	10	13	5	4	1	1	0	35	79	114
PCT	.0	.0	.9	8.8	11.4	4.4	3.5	.9	.9	.0	30.7	69.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.0	.0	2.6	1.8	23.7	71.9	114
06E09	.0	.9	.5	.9	27.0	70.7	222
12E15	.0	1.4	.7	1.4	25.7	70.7	140
18E21	.0	.5	1.0	1.0	29.5	68.0	200
TOT	0	5	7	8	182	474	676
PCT	.0	.7	1.0	1.2	26.9	70.1	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	.0	9.7	25.8	64.5	31
06E09	.0	.0	13.3	16.7	70.0	30
12E15	.0	3.4	6.9	27.6	65.5	29
18E21	.0	5.6	16.7	11.1	72.2	18
TOT	0	2	12	23	73	108
PCT	.0	1.9	11.1	21.3	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
90/94	.0	.0	.0	.0	.0	.4	.0	.0	1	.4
85/89	.0	.0	.0	.4	.8	4.2	.4	.0	15	5.7
80/84	.0	.0	.0	.0	.8	16.3	39.2	8.7	171	65.0
75/79	.0	.0	.0	.0	.4	1.9	14.1	11.8	74	28.1
70/74	.0	.0	.0	.0	.0	.0	.0	.8	2	.8
TOTAL	0	0	0	1	5	60	141	56	263	100.0
PCT	.0	.0	.0	.4	1.9	22.8	53.6	21.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

TEMP F	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
85/89	2.7	1.1	.0	.0	.0	.0	.3	1.6	.0	.0
80/84	26.1	12.5	4.1	1.5	.4	.0	2.8	15.0	.0	2.7
75/79	9.9	5.2	.0	.0	.4	1.0	4.4	7.3	.0	.0
70/74	.0	.0	.0	.0	.0	.2	.6	.0	.0	.0
PCT	38.7	18.8	4.5	1.5	.8	1.1	8.0	24.0	.0	2.7

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	87	85	83	80	76	75	74	79.9	171
06E09	91	89	86	82	77	74	73	81.7	378
12E15	86	85	83	81	78	75	75	80.6	204
18E21	87	82	82	80	77	75	74	79.8	314
TOT	91	87	85	81	77	75	73	80.6	1067

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	.0	10.3	58.6	31.0	87	58
06E09	.0	1.1	4.4	38.9	38.9	16.7	81	90
12E15	.0	.0	1.8	21.8	60.0	16.4	84	55
18E21	.0	.0	.0	13.9	59.7	26.4	87	72
TOT	0	1	5	63	145	61	84	275

JANUARY

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

AREA 0005 BAN... ISLAND NORTHWEST
.7S 105.0E

TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	h FOG	hD FOG
7/8	.0	.0	.0	.0	.4	1	.0	.4
6	.0	.0	.0	.4	.4	2	.0	.7
5	.0	.0	.7	.7	.4	5	.0	1.8
4	.0	.0	.7	1.4	.0	6	.0	2.1
3	.0	.0	6.0	.4	.0	18	.4	6.0
2	.0	.0	6.0	.4	.0	18	.4	6.0
1	.0	1.8	7.1	.7	.0	27	.4	9.2
0	.0	9.5	18.0	.7	.0	80	2.1	26.1
-1	.4	14.5	6.7	.4	.0	62	.7	21.2
-2	.4	8.1	5.7	.0	.0	40	.0	14.1
-3	.0	4.2	1.1	.0	.0	15	.0	5.3
-4	.4	3.9	.7	.0	.0	14	.0	4.9
-5	.4	2.5	.0	.0	.0	8	.0	2.8
-6	.4	1.4	.0	.0	.0	5	.0	1.8
TOTAL	5		132		9		10	279
		130		13		283		
PCT	1.8	45.9	46.6	4.6	1.1	100.0	3.5	96.5

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	4.2	.0	.0	.0	.0	4.2
1-2	.0	9.6	9.6	.0	.0	.0	19.2
3-4	.0	5.8	9.2	.0	.0	.0	15.0
5-6	.0	.0	5.8	.0	.0	.0	5.8
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	19.6	24.6	.0	.0	.0	44.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.7	1.7	.0	.0	.0	.0	3.3
1-2	.0	7.1	3.3	.0	.0	.0	10.4
3-4	.0	2.5	.0	.0	.0	.0	2.5
5-6	.0	.0	2.5	.0	.0	.0	2.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	11.3	5.8	.0	.0	.0	18.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.7	.0	.0	.0	.0	1.7
1-2	.0	1.7	.0	.0	.0	.0	1.7
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.3	.0	.0	.0	.0	3.3

SE

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

PERIOD: (OVER-ALL) 1963-1973

JANUARY

TABLE 18 (CONT)

AREA 0005 BANGKA ISLAND NORTHWEST .75 105.0E

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

S

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

SW

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

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.3	.0	.0	.0	.0	3.3
1-2	.0	1.3	1.7	.0	.0	.0	2.9
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.6	1.7	.0	.0	.0	6.3

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.0	.0	.0	.0	.8
1-2	1.7	3.8	2.1	.0	.0	.0	7.5
3-4	.0	1.7	9.2	.0	.0	.0	10.8
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	6.3	11.3	.0	.0	.0	19.2

HGT	TOTAL PCT
<1	
1-2	
3-4	
5-6	
7	
8-9	
10-11	
12	
13-16	
17-19	
20-22	
23-25	
26-32	
33-40	
41-48	
49-60	
61-70	
71-86	
87+	
TOT PCT	95.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.7	15.0	.0	.0	.0	.0	21.7	
1-2	1.7	23.3	16.7	.0	.0	.0	41.7	
3-4	.0	10.0	18.3	.0	.0	.0	28.3	
5-6	.0	.0	8.3	.0	.0	.0	8.3	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								60
TOT PCT	8.3	48.3	43.3	.0	.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	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	15.1	31.2	22.6	3.2	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	68	2
6-7	.0	1.1	5.4	8.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	4
8-9	.0	.0	3.2	1.1	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	5.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	0
TOTAL	19	30	29	12	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	93	2
PCT	20.4	32.3	31.2	12.9	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1911-1973
(OVER-ALL) 1866-1973

AREA 0005 BANGKA ISLAND NORTHWEST
.75 105.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	3.0	4.6	.7	.0	.0	.0	.0	8.3	1.2	.0	1.1	.0	.0	.0	.0	89.4
NE	.8	7.1	1.6	.0	.0	.0	.0	9.5	.0	3.2	6.3	.0	.0	.0	.0	81.0
E	15.0	.0	.0	.0	.0	.0	.0	15.0	.0	.0	10.0	.0	.0	.0	.0	75.0
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	.0	.0	.0	.0	.0	.0	.0	16.7	33.3	.0	.0	.0	.0	.0	50.0
W	6.9	6.9	.0	.0	.0	.0	.0	13.8	24.1	6.9	.0	.0	.0	.0	.0	55.2
NW	10.7	7.1	.0	.0	.0	.0	.0	17.9	2.6	.0	1.0	.0	.0	.0	.0	78.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	25.0	.0	.0	.0	.0	.0	25.0	.0	25.0	.0	.0	.0	.0	.0	50.0
TOT PCT	4.2	5.7	.7	.0	.0	.0	.0	10.6	1.8	1.4	2.5	.0	.0	.0	.0	83.7
TOT OBS:	283															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	6.0	7.5	.0	.0	.0	.0	.0	13.4	3.0	.0	1.5	.0	.0	.0	.0	82.1
06&09	4.9	9.8	1.2	.0	.0	.0	.0	15.9	1.2	.0	1.2	.0	.0	.0	.0	81.7
12&15	2.8	4.2	1.4	.0	.0	.0	.0	8.5	.0	1.4	2.8	.0	.0	.0	.0	87.3
18&21	5.6	4.2	.0	.0	.0	.0	.0	9.9	2.8	4.2	5.6	.0	.0	.0	.0	77.5
TOT PCT	4.8	6.5	.7	.0	.0	.0	.0	12.0	1.7	1.4	2.7	.0	.0	.0	.0	82.1
TOT OBS:	291															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	3.5	27.2	11.8	.3	.0	.0		42.8	9.0	43.2	45.5	41.3	42.4	46.9	44.3	40.5	40.5
NE	2.3	14.7	5.4	.2	.0	.0		22.7	8.2	27.5	22.7	16.0	22.1	29.3	14.3	29.5	21.8
E	1.2	2.4	.3	.0	.0	.0		3.9	5.8	4.1	.0	3.9	4.7	5.3	.0	2.2	3.7
SE	.5	1.2	.0	.0	.0	.0		1.7	5.0	3.4	.0	.9	1.9	.3	.0	1.9	2.2
S	.1	.6	.1	.0	.0	.0		.7	7.0	.7	.0	2.0	.4	.3	.0	.4	.0
SW	*	1.2	.1	.0	.0	.0		1.3	6.5	1.1	2.3	1.7	.8	.3	.0	.7	3.4
W	.4	3.4	.8	.1	.0	.0		4.4	7.7	6.9	6.8	8.1	3.1	1.9	.0	2.6	3.9
NW	2.4	11.0	4.4	.0	.0	.0		17.7	7.9	14.0	13.6	23.2	23.1	14.9	21.4	15.5	15.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.8							4.8	.0	4.3	9.1	9.0	1.6	4.3	.0	6.7	9.5
TOT OBS	131	531	198	5	0	0	863		7.9	139	11	166	129	161	7	134	116
TOT PCT	15.2	61.5	22.7	.6	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	14.0	25.8	3.0	.0	.0		42.8	9.0	43.3	41.8	47.6	40.5
NE	9.8	11.6	1.3	.0	.0		22.7	8.2	22.5	18.6	25.3	25.9
E	2.6	1.2	.1	.0	.0		3.9	5.8	3.8	4.2	5.1	2.9
SE	1.3	.4	.0	.0	.0		1.7	5.0	3.3	1.4	.3	2.0
S	.4	.2	.1	.0	.0		.7	7.0	.7	1.3	.3	.2
SW	.9	.3	.1	.0	.0		1.3	6.5	1.2	1.3	.3	2.0
W	2.3	1.7	.3	.0	.0		4.4	7.7	6.5	5.9	1.8	3.2
NW	7.9	9.4	.5	.0	.0		17.7	7.9	14.0	23.1	15.2	15.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.8						4.8	.0	4.7	2.4	4.2	8.0
TOT OBS	379	438	46	0	0	863		7.9	140	295	168	250
TOT PCT	43.9	50.8	5.3	.0	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	4.7	14.0	61.3	20.0	.0	.0	.0	7.5	100.0	150
06&09	2.4	9.5	59.7	27.5	1.0	.0	.0	8.5	100.0	295
12&15	4.2	10.7	60.1	24.4	.6	.0	.0	8.1	100.0	168
18&21	8.0	9.2	64.8	17.6	.4	.0	.0	7.3	100.0	250
TOT	41	90	531	196	5	0	0	7.9		863
PCT	4.8	10.4	61.5	22.7	.6	.0	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	7.3	13.6	19.7	13.9		5.2
NE	3.8	3.3	9.8	2.8		4.9
E	1.0	.0	.0	1.5		5.6
SE	.0	.0	1.0	.0		6.0
S	.0	.8	.0	.0		4.0
SW	.0	.3	.3	.0		5.5
W	.0	.0	2.8	.0		6.6
NW	1.0	2.3	5.8	8.1		6.4
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	1.0		8.0
TOT OBS	13	20	39	27	99	5.4
TOT PCT	13.1	20.2	39.4	27.3	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 2499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	1.5	6.6	1.8	.8	.0	.0	.0	43.9	
NE	.0	.0	.0	1.5	1.0	2.0	.0	.0	.0	.0	15.2	
E	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	1.0	
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	
SW	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
W	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	2.0	
NW	.0	.0	.0	2.5	2.5	2.3	1.3	.0	.0	.0	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	1.0	
TOT OBS	0	0	0	8	10	6	2	0	0	0	73	99
TOT PCT	.0	.0	.0	8.1	10.1	6.1	2.0	.0	.0	.0	73.7	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
* OR >2000	6.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
* OR >1000	15.0	17.0	18.0	18.0	18.0	18.0	18.0	18.0
* OR >600	18.0	25.0	26.0	26.0	26.0	26.0	26.0	26.0
* OR >300	18.0	25.0	26.0	26.0	26.0	26.0	26.0	26.0
* OR >150	18.0	25.0	26.0	26.0	26.0	26.0	26.0	26.0
* OR > 0	18.0	25.0	26.0	26.0	26.0	26.0	26.0	26.0
TOTAL	18	25	26	26	26	26	26	26

TOTAL NUMBER OF OBS: 100 PCT FREQ NH <5/8: 74.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
2.8	14.7	22.9	21.1	14.7	8.3	5.5	2.8	7.3	.0	109

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	
	PCP	.0	.0	.0	.0	.0	.0	.2	.5	.0	.0	.7	
2<5	NO PCP	.2	.0	.0	.0	.0	.0	.0	.5	.0	.0	.7	
	TOT %	.9	.0	.0	.0	.0	.0	.2	1.1	.0	.0	1.4	
	PCP	2.6	2.0	.3	.0	.0	.0	.2	2.0	.0	.4	7.4	
5<10	NO PCP	17.1	8.7	1.8	.4	.5	.4	1.3	3.7	.0	.0	33.9	
	TOT %	19.7	10.7	2.0	.4	.5	.4	1.5	5.7	.0	.4	41.3	
	PCP	.9	.1	.3	.0	.0	.0	.0	.5	.0	.0	1.8	
10+	NO PCP	28.4	11.5	1.2	1.1	.6	.1	.9	10.0	.0	1.1	54.8	
	TOT %	29.2	11.6	1.5	1.1	.6	.1	.9	10.5	.0	1.1	56.5	
	TOT OBS												283
	TOT PCT	49.8	22.3	3.5	1.4	1.1	.5	2.6	17.3	.0	1.4	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
1<2	4-10	.2	.0	.0	.0	.0	.2	.0	.0	.0		.4	
	11-21	.2	.0	.0	.0	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.4	.0	.0	.0	.0	.2	.0	.0	.0	.2	.8	
	0-3	.0	.0	.0	.0	.0	.0	.1	.3	.0	.0	.4	
2<5	4-10	.3	.1	.0	.0	.0	.0	.1	.1	.0		.6	
	11-21	.2	.0	.0	.0	.0	.0	.0	.4	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.5	.1	.0	.0	.0	.0	.2	.8	.0	.0	1.6	
	0-3	.7	.4	.1	.0	.0	*	.1	.5	.0	.4	2.6	
5<10	4-10	9.2	3.8	1.1	.2	.2	.1	.5	2.2	.0		17.2	
	11-21	2.0	1.9	.1	.0	.1	.1	.2	.6	.0		5.0	
	22+	.1	.1	.0	.0	.0	.0	.0	.0	.0		.2	
	TOT %	11.9	6.4	1.3	.2	.3	.2	.8	3.3	.0	.4	25.0	
	0-3	3.9	2.4	1.4	.6	.1	.0	.2	1.9	.0	2.8	13.3	
10+	4-10	20.8	12.3	2.1	.9	.5	.6	1.7	8.2	.0		47.1	
	11-21	6.7	2.3	.0	.0	.0	.0	.3	2.6	.0		11.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	31.4	17.0	3.5	1.5	.6	.6	2.2	12.6	.0	2.8	72.3	
	TOT OBS												505
	TOT PCT	44.5	23.5	4.9	1.7	.9	1.1	3.2	16.7	.0	3.6	100.0	

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	.0	12.5	6.3	6.3	.0	.0	.0	.0	25.0	75.0	32
06E09	.0	.0	.0	11.5	3.8	.0	3.8	.0	.0	.0	19.2	80.8	26
12E15	.0	.0	.0	.0	17.6	5.9	.0	.0	.0	.0	23.5	76.5	34
18E21	.0	.0	.0	5.9	5.9	11.8	5.9	.0	.0	.0	29.4	70.6	17
TOT	0	0	0	8	10	6	2	0	0	0	26	83	109
PCT	.0	.0	.0	7.3	9.2	5.5	1.8	.0	.0	.0	23.9	76.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	1.0	.0	1.0	2.1	22.7	73.2	97
06E09	.0	.0	.6	.0	26.5	72.9	155
12E15	.0	.0	.0	3.5	23.7	72.8	114
18E21	.0	.7	1.4	1.4	28.6	68.0	147
TOT	1	1	4	8	132	367	513
PCT	.2	.2	.8	1.6	25.7	71.5	100.0

TABLE 12

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

HOUR (GMT)	<=50 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	.0	13.3	13.3	73.3	30
06E09	.0	.0	13.6	9.1	77.3	22
12E15	.0	.0	3.2	22.6	74.2	31
18E21	.0	.0	5.9	23.5	70.6	17
TOT	0	0	9	17	74	100
PCT	.0	.0	9.0	17.0	74.0	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	.4	.0	.0	.0	.0	1	.4
85/89	.0	.0	.0	.0	.4	2.7	1.3	.0	10	4.5
80/84	.0	.0	.0	.0	.9	19.7	60.8	12.6	165	74.0
75/79	.0	.0	.0	.0	.0	1.8	30.3	9.0	47	21.1
TOTAL	0	0	0	1	3	54	117	48	223	100.0
PCT	.0	.0	.0	.4	1.3	24.2	52.5	21.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
	1.6	1.3	.4	.0	.0	.0	.0	1.1	.0	.0
	40.9	16.5	3.3	.9	.4	.1	1.2	9.3	.0	1.3
	8.2	4.6	.6	.9	.6	.3	1.6	4.4	.0	.0
	51.1	22.4	4.3	1.8	1.0	.4	2.8	14.8	.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
00E03	88	86	83	80	76	75	75	80.3	150
06E09	92	89	87	82	78	76	75	82.3	287
12E15	84	83	83	81	78	75	74	80.9	167
18E21	84	83	82	80	77	75	74	80.1	247
TOT	92	89	85	81	77	75	74	81.0	851

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	.0	12.7	65.5	21.8	85	55
06E09	.0	1.7	1.7	43.3	31.7	21.7	82	60
12E15	.0	.0	3.5	22.8	49.1	24.6	84	57
18E21	.0	.0	.0	17.2	58.6	24.1	85	58
TOT	0	1	3	56	117	53	84	230

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TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	.4	1	.0	.4
7/8	.0	.0	.4	.4	.0	2	.0	.9
6	.0	.0	.0	.4	.0	1	.0	.4
5	.0	.0	.0	.4	.0	1	.0	.4
4	.0	.0	.9	.9	.0	4	.0	1.8
3	.0	.0	1.8	.4	.0	5	.0	2.2
2	.0	.0	7.6	.4	.0	18	.0	8.1
1	.0	.9	9.9	1.3	.0	27	.4	11.7
0	.0	4.0	15.7	1.8	.0	48	1.3	20.2
-1	.0	6.7	12.6	.0	.0	43	.0	19.3
-2	.0	9.4	9.9	.0	.0	43	.0	19.3
-3	.4	3.6	.9	.0	.0	11	.0	4.9
-4	.4	2.2	1.3	.0	.0	9	.0	4.0
-5	.9	1.3	.9	.0	.0	7	.0	3.1
-6	.4	.9	.0	.0	.0	3	.0	1.3
TOTAL	5	65	138	14	1	223	4	219
PCT	2.2	29.1	61.9	6.3	.4	100.0	1.8	98.2

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	4.3	13.4	1.7	.0	.0	.0	19.4
1-2	.0	8.6	5.2	.0	.0	.0	13.8
3-4	.0	7.3	8.2	.0	.0	.0	15.5
5-6	.0	1.3	1.7	.0	.0	.0	3.0
7	.0	.0	1.7	.0	.0	.0	1.7
8-9	.0	1.7	.0	.0	.0	.0	1.7
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.3	32.3	18.5	.0	.0	.0	55.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.2	1.7	.0	.0	.0	.0	3.9
1-2	1.7	5.2	1.7	.0	.0	.0	8.6
3-4	.0	.9	6.9	.0	.0	.0	7.8
5-6	.0	.4	1.7	.0	.0	.0	2.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.9	8.2	10.3	.0	.0	.0	22.4

E

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

SE

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

PERIOD: (OVER-ALL) 1963-1973

FEBRUARY

TABLE 18 (CONT)

AREA 0005 BANGKA ISLAND NORTHWEST
.7S 105.0E

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

S

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

SW

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

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.7	.0	.0	.0	.0	1.7
3-4	.0	1.7	.0	.0	.0	.0	1.7
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.4	.0	.0	.0	.0	3.4

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	2.2	.4	.0	.0	.0	.0	2.6	
1-2	.0	1.7	3.4	.0	.0	.0	5.2	
3-4	.0	2.2	3.9	.0	.0	.0	6.0	
5-6	.0	.0	1.7	.0	.0	.0	1.7	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.2	4.3	9.1	.0	.0	.0	15.5	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	13.6	15.3	1.7	.0	.0	.0	30.5	
1-2	1.7	16.9	10.2	.0	.0	.0	28.8	
3-4	.0	11.9	18.6	.0	.0	.0	30.5	
5-6	.0	1.7	5.1	.0	.0	.0	6.8	
7	.0	.0	1.7	.0	.0	.0	1.7	
8-9	.0	1.7	.0	.0	.0	.0	1.7	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	15.3	47.5	37.3	.0	.0	.0	100.0	59

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	15.4	29.5	7.7	3.8	1.3	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	46	2
6-7	.0	2.6	7.7	7.7	3.8	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	5
8-9	.0	1.3	1.3	1.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	5
10-11	.0	1.3	.0	1.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	5
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	5.1	.0	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	1
TOTAL	16	27	16	11	4	3	1	0	0	0	0	0	0	0	0	0	0	0	0	78	3
PCT	20.5	34.6	20.5	14.1	5.1	3.8	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1858-1973

AREA 0005 BANGKA ISLAND NORTHWEST
.7S 105.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.2	3.1	.0	.0	.0	.0	.0	5.3	.0	3.5	4.0	.0	.0		.0	87.2
NE	1.3	.0	.0	.0	.0	.0	.0	1.3	1.3	2.7	2.0	.0	.0		.0	92.6
E	3.3	.0	.0	.0	.0	.0	.0	4.9	.0	1.6	.0	.0	.0		.0	95.1
SE	9.5	.0	4.8	.0	.0	.0	.0	14.3	.0	4.8	.0	.0	.0		.0	81.0
S	2.8	16.7	.0	.0	.0	.0	.0	19.4	.0	.0	.0	.0	.0		.0	80.6
SW	18.5	12.3	.0	.0	.0	.0	.0	30.8	.0	.0	.0	.0	.0		.0	69.2
W	11.5	2.3	.0	.0	.0	.0	.0	13.8	4.6	4.6	.0	.0	.0		.0	77.0
NW	3.8	9.1	.0	.0	.0	.0	.0	12.9	3.0	.8	.0	.0	.0		.0	83.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	5.0	5.0	.0	.0	.0	.0	.0	10.0	.0	.0	.0	.0	.0		.0	90.0
TOT PCT	4.2	4.2	.3	.0	.0	.0	.0	8.7	1.0	2.4	1.6	.0	.0		.0	86.4
TOT OBS:	381															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	8.4	3.6	.0	.0	.0	.0	.0	12.0	1.2	.0	1.2	.0	.0		.0	85.5
06&09	3.4	8.4	.0	.0	.0	.0	.0	11.8	1.7	.0	1.7	.0	.0		.0	84.9
12&15	.0	1.1	1.1	.0	.0	.0	.0	2.1	1.1	2.1	1.1	.0	.0		.0	93.6
18&21	5.8	5.0	.0	.0	.0	.0	.0	10.8	.0	5.8	3.3	.0	.0		.0	80.0
TOT PCT	4.3	4.3	.2	.0	.0	.0	.0	9.4	1.0	2.2	1.9	.0	.0		.0	85.6
TOT OBS:	416															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	3.6	21.9	5.7	*	*	.0		31.3	7.7	22.4	50.0	30.2	35.2	35.2	36.4	35.2	28.6
NE	2.5	14.0	2.0	*	.0	.0		18.6	7.1	16.3	.0	13.4	17.3	25.1	22.7	20.7	20.1
E	2.2	3.6	.3	.0	.0	.0		6.1	5.1	6.3	.0	4.1	7.7	5.4	9.1	7.5	6.6
SE	2.0	2.7	*	.0	.0	.0		4.8	4.5	4.9	.0	5.6	3.1	3.8	9.1	5.4	5.6
S	.9	2.0	.1	.0	.0	.0		2.9	5.3	5.7	.0	2.3	1.9	1.5	4.5	2.6	4.3
SW	1.1	2.6	.3	.1	.0	.0		4.1	6.2	10.1	12.5	4.3	1.2	.3	4.5	3.4	5.6
W	1.3	3.2	.3	.0	.0	.0		4.8	5.9	7.3	12.5	5.9	4.3	3.3	.0	3.7	4.3
NW	1.8	12.3	2.7	.0	*	.0		16.8	7.6	17.4	.0	19.7	23.1	17.3	4.5	10.2	13.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.5							10.5	.0	9.7	25.0	14.4	6.2	8.1	9.1	11.3	11.2
TOT OBS	299	719	132	2	1	0	1153		6.2	175	4	257	162	198	11	194	152
TOT PCT	25.9	62.4	11.4	.2	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	14.7	15.3	1.3	*	.0		31.3	7.7	22.9	32.1	35.3	32.3
NE	9.3	8.9	.5	.0	.0		18.6	7.1	15.9	14.9	25.0	20.4
E	4.6	1.4	.1	.0	.0		6.1	5.1	6.1	5.5	5.6	7.1
SE	3.9	.9	.0	.0	.0		4.8	4.5	4.7	4.7	4.1	5.5
S	2.1	.8	.0	.0	.0		2.9	5.3	5.6	2.1	1.7	3.3
SW	2.7	1.2	.2	.0	.0		4.1	6.2	10.2	3.1	.5	4.3
W	3.2	1.6	*	.0	.0		4.8	5.8	7.4	5.3	3.1	4.0
NW	7.8	8.7	.3	*	.0		16.8	7.6	17.0	21.1	10.6	11.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	10.5						10.5	.0	10.1	11.2	8.1	11.3
TOT OBS	679	448	25	1	0	1153		6.2	179	419	209	346
TOT PCT	58.9	38.9	2.2	.1	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1858-1973

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	10.1	16.8	60.3	12.8	.0	.0	.0	6.0	100.0	179
04&09	11.2	16.2	60.4	12.2	.0	.0	.0	6.2	100.0	419
12&15	8.1	12.9	67.5	11.5	.0	.0	.0	6.5	100.0	209
18&21	11.3	15.3	62.7	9.8	.6	.3	.0	6.2	100.0	346
TOT	171	178	/19	132	2	1	0	6.2		1153
PCT	10.5	15.4	62.4	11.4	.2	.1	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.7	11.5	13.5	4.8		4.9
NE	7.2	6.8	7.7	2.2		4.0
E	1.8	2.8	3.3	.8		4.2
SE	.0	.0	1.0	1.0		7.1
S	.3	.7	.0	.3		4.0
SW	.7	.8	2.7	1.0		5.3
W	.3	1.0	2.0	1.3		5.8
NW	.7	3.7	7.8	4.5		6.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.7	3.3	.0		5.8
TOT OBS	22	42	82	24	150	4.9
TOT PCT	14.7	28.0	41.3	16.0	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.7	.8	3.0	3.0	1.8	.0	.0	1.3	22.8	
NE	.0	.0	.0	.0	.8	2.0	.3	.7	.7	.7	18.7	
E	.0	.0	.0	.0	1.5	.7	.5	.0	.0	.0	6.2	
SE	.0	.0	.0	.0	.3	.7	.0	.0	.0	.0	1.0	
S	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	1.0	
SW	.0	.0	.0	.7	1.0	.7	.0	.0	.0	.0	2.8	
W	.0	.0	.0	.0	2.0	.0	.0	.0	.0	.0	2.7	
NW	.0	.0	.7	1.2	3.0	1.7	.7	.0	.0	.0	9.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.7	.0	.7	.7	.7	.0	.0	.0	1.3	
TOT OBS	0	0	3	4	19	14	6	1	1	3	99	150
TOT PCT	.0	.0	2.0	2.7	12.7	9.3	4.0	.7	.7	2.0	66.0	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
* OR >5000	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
* OR >3500	6.6	7.3	7.9	7.9	7.9	7.9	7.9	7.9
* OR >2000	14.6	16.6	17.2	17.2	17.2	17.2	17.2	17.2
* OR >1000	27.2	29.1	29.8	29.8	29.8	29.8	29.8	29.8
* OR >600	29.1	31.8	32.5	32.5	32.5	32.5	32.5	32.5
* OR >300	30.5	33.8	34.4	34.4	34.4	34.4	34.4	34.4
* OR >150	30.5	33.8	34.4	34.4	34.4	34.4	34.4	34.4
* OR > 0	30.5	33.8	34.4	34.4	34.4	34.4	34.4	34.4
TOTAL	46	51	52	52	52	52	52	52

TOTAL NUMBER OF OBS: 151

PCT FREQ NH <5/8: 65.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
4.9	12.9	20.2	16.6	9.8	11.0	11.0	9.2	4.3	.0	163

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1858-1973

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.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	.3	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	
5<10	PCP	1.2	.1	.3	.8	.5	.9	.8	2.2	.0	.0	6.8	
	NO PCP	7.9	6.0	1.9	2.8	2.4	.9	2.2	6.4	.0	2.4	32.8	
	TOT %	9.1	6.1	2.2	3.5	2.9	1.8	3.0	8.7	.0	2.4	39.6	
10+	PCP	.4	.1	.0	.0	.4	.4	.0	.0	.0	.0	1.3	
	NO PCP	20.3	13.3	5.9	2.0	1.4	2.0	2.7	6.6	.0	2.4	58.5	
	TOT %	20.7	13.4	5.9	2.0	1.8	2.4	2.7	8.6	.0	2.4	59.8	
	TOT OBS												381
	TOT PCT	29.7	19.5	8.1	5.5	4.7	4.9	5.7	17.3	.0	5.2	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.1	.0	.0	.0	.0	.0	.0	.1	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.0	.0	.0	.0	.0	.0	.1	.0	.1	.3	
2<5	0-3	.0	.0	.0	.0	.0	.0	.1	.1	.0	.3	.4	
	4-10	.0	.1	.0	.0	.2	.2	.0	.0	.0		.6	
	11-21	.0	.0	.0	.0	.0	.0	.0	.1	.0		.1	
	22+	.1	.0	.0	.0	.0	.0	.0	.1	.0		.1	
	TOT %	.1	.1	.0	.0	.2	.2	.1	.3	.0	.3	1.3	
5<10	0-3	.1	.3	.4	.7	.4	.2	.4	.5	.0	1.8	5.0	
	4-10	4.2	3.1	.7	1.2	1.1	.7	1.2	2.7	.0		14.8	
	11-21	.9	.1	.1	.1	.1	.3	.1	1.7	.0		3.4	
	22+	.0	.0	.0	.0	.0	.1	.0	.0	.0		.1	
	TOT %	5.2	3.5	1.2	2.0	1.6	1.3	1.8	5.0	.0	1.8	23.4	
10+	0-3	2.6	1.3	1.7	1.1	.4	1.0	1.0	1.1	.0	7.3	17.5	
	4-10	16.7	11.8	3.3	.8	1.2	2.4	2.6	10.7	.0		49.6	
	11-21	3.7	2.4	.3	.0	.0	.0	.2	1.3	.0		7.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	23.0	15.6	5.3	1.9	1.6	3.4	3.7	13.1	.0	7.3	74.9	
	TOT OBS												674
	TOT PCT	28.3	19.3	6.6	3.9	3.4	5.0	5.6	18.4	.0	9.5	100.0	

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1858-1973

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	.0	10.8	10.8	8.1	.0	2.7	.0	32.4	67.6	37
06&09	.0	.0	2.9	8.6	22.9	17.1	2.9	2.9	.0	.0	57.1	42.9	35
12&15	.0	.0	.0	.0	8.0	6.0	4.0	.0	.0	4.0	22.0	78.0	50
18&21	.0	.0	5.7	2.9	8.6	2.9	2.9	.0	.0	2.9	25.7	74.3	35
TOT	0	0	3	4	19	14	7	1	1	3	52	105	157
PCT	.0	.0	1.9	2.5	12.1	8.9	4.5	.6	.6	1.9	33.1	66.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	.8	31.1	68.0	122
06&09	.0	.0	.5	.0	23.9	75.7	214
12&15	.0	.0	.7	.0	19.3	80.0	150
18&21	.0	.0	.0	3.7	27.9	68.5	219
TOT	0	0	2	9	180	518	709
PCT	.0	.0	.3	1.3	25.4	73.1	100.0

TABLE 12

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

HOUR (GMT)	<150 <5CYD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	.0	34.3	65.7	35
06&09	.0	2.9	11.4	45.7	42.9	35
12&15	.0	.0	.0	22.0	78.0	50
18&21	.0	6.5	12.9	16.1	71.0	31
TOT	0	3	8	44	99	151
PCT	.0	2.0	5.3	29.1	65.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.7	.3	.3	.0	4	1.3
85/89	.0	.0	.0	.0	.7	4.0	1.3	.7	20	6.7
80/84	.0	.0	.0	.0	.0	17.2	46.1	15.5	234	78.8
75/79	.0	.0	.0	.0	.0	.0	5.7	7.4	39	13.1
TOTAL	0	0	0	0	4	64	159	70	297	100.0
PCT	.0	.0	.0	.0	1.3	21.5	53.5	23.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.7	.0	.0	.3	.0	.0	.0	.0	.3
1.3	1.0	.3	.7	.3	.0	.3	1.2	.0	1.3
25.3	17.7	6.2	4.4	2.3	4.0	3.2	13.0	.0	2.4
2.0	.1	.6	1.0	2.0	1.0	1.7	4.4	.0	.3
29.0	19.4	7.2	6.1	5.2	5.0	5.2	18.5	.0	4.4

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	88	87	84	81	77	73	73	80.7	186
06&09	92	91	88	83	78	76	75	83.2	422
12&15	86	85	84	82	79	77	76	81.8	211
18&21	85	84	83	81	77	74	71	80.8	354
TOT	92	89	86	82	78	75	71	81.8	1173

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	.0	14.7	51.5	33.8	87	68
06&09	.0	.0	4.3	30.9	51.1	13.8	82	94
12&15	.0	.0	.0	28.6	58.4	12.9	83	70
18&21	.0	.0	.0	10.3	57.7	32.0	87	97
TOT	0	0	4	69	180	76	64	329

MARCH

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1858-1973

TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	.7	2	.0	.7
7/8	.0	.0	.0	.0	.3	1	.0	.3
6	.0	.0	.0	.3	.7	3	.0	1.0
5	.0	.0	.3	.7	1.0	6	.0	2.0
4	.0	.0	.3	1.0	.0	4	.0	1.3
3	.0	.0	.3	1.3	.0	5	.0	1.7
2	.0	.0	3.0	1.7	.3	15	.0	5.0
1	.0	.7	4.7	1.3	.0	20	.3	6.3
0	.0	2.0	14.3	1.3	.0	53	.7	16.9
-1	.0	5.0	15.0	.7	.0	64	.7	20.6
-2	.0	7.3	15.6	.0	.0	69	.7	22.3
-3	.0	2.3	3.3	.0	.0	17	.0	5.6
-4	.0	4.7	3.7	.0	.0	25	.3	8.0
-5	.0	1.0	2.0	.0	.0	9	.0	3.0
-6	.0	.7	.0	.0	.0	2	.0	.7
-7/-8	1.0	.3	.3	.0	.0	5	.0	1.7
-11/-13	.0	.3	.0	.0	.0	1	.0	.3
TOTAL	3	73	191	25	9	301	8	293
PCT	1.0	24.3	63.5	8.3	3.0	100.0	2.7	97.3

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
I.							
<1	.0	7.9	.0	.0	.0	.0	7.9
1-2	.0	17.5	7.5	.0	.0	.0	25.0
3-4	.0	6.3	5.8	.0	.0	.0	12.1
5-6	.0	.0	3.3	.0	.0	.0	3.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	31.7	16.7	.0	.0	.0	48.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
NE							
<1	1.7	7.5	.0	.0	.0	.0	9.2
1-2	.0	7.1	2.5	.0	.0	.0	9.6
3-4	.0	3.3	1.7	.0	.0	.0	5.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	17.9	4.2	.0	.0	.0	23.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
E							
<1	.0	2.9	.0	.0	.0	.0	2.9
1-2	.0	1.3	.0	.0	.0	.0	1.3
3-4	.0	1.7	.0	.0	.0	.0	1.7
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.8	.0	.0	.0	.0	5.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
SE							
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

PERIOD: (OVER-ALL) 1963-1973

MARCH

AREA 0005 BANGKA ISLAND NORTHWEST
.75 105.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	1.7	.0	.0	.0	.0	1.7
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.7	.0	.0	.0	.0	1.7
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	3.3	.0	.0	.0	.0	3.3

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	1.7	5.0	.0	.0	.0	.0	6.7	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	5.8	.0	.0	.0	.0	5.8	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.4	4.2	.0	.0	.0	4.6	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	1.7	11.3	4.2	.0	.0	.0	17.1	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	5.0	23.3	.0	.0	.0	.0	28.3	
1-2	.0	33.3	10.0	.0	.0	.0	43.3	
3-4	.0	13.3	11.7	.0	.0	.0	25.0	
5-6	.0	.0	3.3	.0	.0	.0	3.3	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.0	70.0	25.0	.0	.0	.0	100.0	60

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	19.5	35.2	15.6	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	93	2
6-7	.0	1.6	3.9	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	3
8-9	.0	.0	.8	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	4
10-11	.0	1.6	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	3
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	12.5	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	0
TOTAL	41	53	28	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	128	2
PCT	32.0	41.4	21.9	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1914-1972
(OVER-ALL) 1857-1972

AREA 0005 BANGKA ISLAND NORTHWEST
.6S 105.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	1.4	5.5	2.1	.0	.0	.0	.0	9.0	.0	1.4	9.7	.0	.0	.0	.0	81.4
NE	3.5	2.3	.0	.0	.0	.0	2.3	8.2	.0	3.5	1.2	.0	.0	.0	.0	88.3
E	2.9	1.4	.0	.0	.0	.0	.0	4.3	.0	2.9	.0	.0	.0	.0	.0	92.9
SE	.0	3.6	.0	0	.0	.0	.0	3.6	3.6	1.8	.0	.0	.0	.0	.0	90.9
S	4.0	5.7	.0	.0	.0	.0	.0	9.7	4.0	.0	.0	.0	.0	.0	.0	86.4
SW	12.5	8.3	.0	.0	.0	.0	2.1	22.9	5.2	4.2	.0	.0	.0	.0	.0	67.7
W	13.3	4.1	.0	.0	.0	.0	2.0	19.4	4.1	4.1	.0	.0	.0	.0	.0	72.4
NW	4.7	4.7	1.2	.0	.0	.0	.0	10.5	.0	4.7	4.7	.0	.0	4.7	.0	75.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.9	.0	.0	.0	.0	.0	.0	2.9	2.9	8.6	.0	.0	.0	.0	.0	85.7
TOT PCT	4.1	3.8	.3	.0	.0	.0	.6	8.8	2.2	3.1	1.6	.0	.3	.0	.0	84.3
TOT OBS:	318															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	4.9	3.7	.0	.0	.0	.0	.0	8.6	3.7	.0	.0	.0	.0	.0	.0	87.7
06&09	7.0	8.0	.0	.0	.0	.0	.0	15.0	1.0	1.0	3.0	.0	.0	.0	.0	80.0
12&15	5.3	2.7	1.3	.0	.0	.0	1.3	10.7	.0	0.7	1.3	.0	.0	.0	.0	82.7
18&21	5.0	3.0	.0	.0	.0	.0	1.0	9.0	3.0	7.0	4.0	.0	1.0	.0	.0	77.0
TOT PCT	5.6	4.5	.3	.0	.0	.0	.6	11.0	2.0	3.7	2.2	.0	.3	.0	.0	81.5
TOT OBS:	356															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.7	6.8	.7	.1	.0	.0		10.2	5.5	10.0	4.2	10.9	11.5	10.8	4.5	11.1	7.5
NE	3.8	8.2	.7	.0	.0	.0		12.7	5.3	9.7	14.6	10.5	16.7	13.6	22.7	14.1	12.1
E	3.0	7.8	.3	.0	.0	.0		11.1	5.4	10.8	6.3	11.0	12.2	9.3	36.4	9.4	12.9
SE	3.5	10.8	.2	.1	.0	.0		14.5	5.1	19.0	20.8	10.3	10.4	16.3	18.2	15.8	15.0
S	3.2	6.9	.5	.1	.0	.0		10.7	5.6	15.2	8.3	8.9	7.0	9.6	13.6	11.8	11.4
SW	3.2	4.8	.4	.1	.0	.0		8.5	5.3	9.0	12.5	12.1	11.3	6.4	.0	3.9	8.6
W	2.2	4.9	.5	.3	.0	.0		7.9	6.2	7.3	4.2	13.5	6.5	6.1	.0	6.2	6.8
NW	1.8	5.5	.9	.2	.0	.0		7.7	6.0	7.0	29.2	11.9	8.7	5.3	4.5	5.9	5.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	16.7							16.7	.0	12.0	.0	10.9	15.7	22.6	.0	21.5	20.7
TOT OBS	385	534	33	7	0	0	959		4.6	150	12	202	115	164	11	165	140
TOT PCT	40.1	55.7	3.4	.7	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)				
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21	
N	7.5	2.6	.1	.0	.0		10.2	5.5	9.6	11.1	10.4	9.4	
NE	9.4	3.3	.0	.0	.0		12.7	5.3	10.0	12.8	14.1	13.2	
E	8.0	3.0	.0	.0	.0		11.1	5.4	10.8	11.4	11.0	11.0	
SE	11.8	2.7	.0	.1	.0		14.5	5.1	19.1	10.3	16.4	15.4	
S	7.6	2.8	.2	.1	.0		10.7	5.6	14.7	8.2	9.9	11.6	
SW	6.1	2.3	.2	.0	.0		8.5	5.3	9.3	11.8	6.0	6.1	
W	5.6	2.0	.4	.1	.0		7.9	6.2	7.1	11.0	5.7	6.5	
NW	5.6	1.9	.1	.2	.0		7.7	6.0	8.6	10.7	5.3	5.5	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	16.7						16.7	.0	11.1	12.6	21.1	21.3	
TOT OBS	750	198	8	3	0	959		4.6	162	317	175	305	
TOT PCT	78.2	20.6	.8	.3	.0		100.0		100.0	100.0	100.0	100.0	

APRIL

PERIOD: (PRIMARY) 1914-1972
(OVER-ALL) 1857-1972

AREA 0005 BANGKA ISLAND NORTHWEST
.6S 105.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	11.1	22.8	61.7	4.3	.0	.0	.0	4.9	100.0	162
06&09	12.6	26.2	57.1	2.5	1.6	.0	.0	4.8	100.0	317
12&15	21.1	21.1	55.4	2.3	.0	.0	.0	4.0	100.0	175
18&21	21.3	22.3	51.1	4.6	.7	.0	.0	4.5	100.0	305
TOT	160	225	534	33	7	0	0	4.6		959
PCT	16.7	23.5	55.7	3.4	.7	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.1	2.1	5.8	.0		4.3
NE	2.2	5.8	6.3	.0		4.2
E	1.9	6.5	8.9	.0		3.9
SE	2.7	2.9	5.8	2.7		5.0
S	1.9	2.6	8.6	1.9		5.4
SW	.2	.7	4.3	1.7		6.2
W	.0	.7	6.3	1.2		6.1
NW	2.7	.7	2.4	.0		3.6
VAR	.0	.0	.0	.0		.0
CALM	9.5	9.1	3.4	1.4		3.-
TOT OBS	28	38	67	13	146	4.6
TOT PCT	19.2	26.0	45.9	8.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.0	.9	.0	.7	.0	.0	.0	.0	8.4	
.0	.0	.0	.0	2.7	.7	.0	.0	.0	.0	11.0	
.0	.0	.0	.0	.7	.7	.0	.0	.0	.0	9.9	
.0	.0	.0	.7	2.2	1.5	.0	.0	.0	.0	9.8	
.0	.0	.5	1.4	2.7	3.6	.0	.0	.0	.0	6.7	
.0	.0	.2	1.0	1.2	1.0	.0	.0	.0	.0	3.4	
.0	.0	.0	1.0	.0	.5	1.2	.0	.0	.0	5.5	
.0	.0	.0	.5	.0	.9	.2	.0	.0	.0	4.3	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.7	2.1	.7	.0	.0	.0	.0	.7	10.3	
0	0	2	11	15	14	2	0	0	1	101	146
.0	.0	1.4	7.5	10.3	9.6	1.4	.0	.0	.7	69.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.7	.7	.7	.7	.7	.7	.7	.7
* OR >5000	.7	.7	.7	.7	.7	.7	.7	.7
* OR >3500	1.3	2.0	2.0	2.0	2.0	2.0	2.0	2.0
* OR >2000	10.7	12.1	12.1	12.1	12.1	12.1	12.1	12.1
* OR >1000	19.5	22.1	22.1	22.1	22.1	22.1	22.1	22.1
* OR >600	26.2	28.9	29.5	30.2	30.2	30.2	30.2	30.2
* OR >300	26.2	30.2	30.9	31.5	31.5	31.5	32.2	32.2
* OR >150	26.2	30.2	30.9	31.5	31.5	31.5	32.2	32.2
* OR > 0	26.2	30.2	30.9	31.5	31.5	31.5	32.2	32.2
TOTAL	39	45	46	47	47	47	48	48

TOTAL NUMBER OF OBS: 149 PCT FREQ NH <5/8: 67.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
8.1	11.3	21.3	17.5	10.6	7.5	10.6	6.9	6.3	.0	160

APRIL

PERIOD: (PRIMARY) 1914-1972
(OVER-ALL) 1857-1972

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	.6	
	TOT %	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	.6	
2<5	PCP	.0	.0	.0	.0	.0	.7	.2	.0	.0	.0	.9	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.7	.2	.0	.0	.0	.9	
5<10	PCP	.6	.6	.2	.6	1.0	1.0	1.3	.3	.0	.3	6.0	
	NO PCP	3.0	3.0	4.2	6.6	2.4	1.0	9.0	2.2	.0	1.6	26.1	
	TOT %	9.6	3.6	4.4	7.2	3.5	2.0	3.3	2.5	.0	1.9	32.1	
10+	PCP	.4	.5	.3	.0	.3	.0	.0	.4	.0	.0	1.9	
	NO PCP	7.4	9.4	6.3	10.1	9.7	4.8	4.2	3.9	.0	8.8	64.5	
	TOT %	7.8	9.8	6.6	10.1	10.1	4.8	4.2	4.2	.0	8.8	66.4	
	TOT OBS												318
	TOT PCT	11.4	13.4	11.0	17.3	13.8	7.4	7.7	6.8	.0	11.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	.0	.0	.0	.0	.0	.1	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.1	.0	.0	.0	.0	.0	.0	.1	.0	.2	.3	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.2	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.0	.0	.0	.2	.0	.0	.1	.0	.2	.5	
2<5	0-3	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	.3	
	4-10	.0	.0	.0	.0	.0	.2	.2	.0	.0		.3	
	11-21	.0	.0	.0	.0	.0	.2	.1	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.5	.4	.0	.0	.2	1.0	
5<10	0-3	.3	.8	.3	.7	.0	.4	.3	.4	.0	1.2	4.4	
	4-10	1.3	1.1	2.2	3.3	1.7	.8	1.2	.9	.0		12.4	
	11-21	.5	.2	.0	.0	.3	*	.2	.0	.0		1.3	
	22+	.0	.0	.0	.0	.0	.0	.2	.0	.0		.2	
	TOT %	2.0	2.1	2.5	3.9	2.2	1.3	1.8	1.3	.0	1.2	18.3	
10+	0-3	2.8	3.1	2.0	2.5	2.3	2.2	1.3	1.5	.0	16.8	34.3	
	4-10	5.2	6.0	5.3	9.8	7.4	3.7	3.1	3.4	.0		43.9	
	11-21	.3	.4	.3	.2	.2	.0	.4	.1	.0		1.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	8.2	9.5	7.6	12.5	9.8	5.9	4.8	4.9	.0	16.8	80.1	
	TOT OBS												597
	TOT PCT	10.4	11.8	10.1	16.4	12.1	7.6	7.0	6.4	.0	18.3	100.0	

PERIOD: (PRIMARY) 1914-1972
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00Z03	.0	.0	.0	8.5	17.0	8.5	.0	.0	.0	.0	34.0	66.0	47
06Z09	.0	.0	2.7	5.4	8.1	16.2	2.7	.0	.0	.0	35.1	64.9	37
12Z15	.0	.0	5.4	5.4	8.1	8.1	.0	.0	.0	2.7	29.7	70.3	37
18Z21	.0	.0	.0	10.8	2.7	5.4	2.7	.0	.0	.0	21.6	78.4	37
TOT	0	0	3	12	15	15	2	0	0	1	48	110	158
PCT	.0	.0	1.9	7.6	9.5	9.5	1.3	.0	.0	.6	30.4	69.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00Z03	.0	.0	.0	1.7	16.4	81.9	116
06Z09	.5	.0	.0	1.1	20.0	78.4	190
12Z15	.8	.0	.8	.0	18.3	80.2	131
18Z21	.5	.0	1.0	1.0	23.2	74.2	198
TOT	2	0	3	6	127	497	635
PCT	.3	.0	.5	.9	20.0	78.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00Z03	.0	.0	8.5	25.5	66.0	47
06Z09	.0	2.9	8.6	28.6	62.9	35
12Z15	.0	5.9	11.8	20.6	67.6	34
18Z21	.0	.0	12.1	12.1	75.8	33
TOT	0	3	15	33	101	149
PCT	.0	2.0	10.1	22.1	67.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	2.1	8.2	6.0	.0	38	16.3
80/84	.0	.0	.0	.0	1.3	22.3	49.4	6.9	186	79.8
75/79	.0	.0	.0	.0	.0	.0	2.1	1.7	9	3.9
TOTAL	0	0	0	0	8	71	134	20	233	100.0
PCT	.0	.0	.0	.0	3.4	30.5	57.5	8.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	2.4	2.5	3.1	1.9	2.7	.3	.9	1.3	.0	1.3
	9.3	9.9	10.0	15.3	10.7	4.5	5.9	3.9	.0	10.3
	.0	.0	.0	1.3	.0	1.2	1.4	.0	.0	.0
	11.7	12.3	13.1	18.6	13.4	6.0	8.2	5.2	.0	11.6

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00Z03	93	90	86	82	78	76	75	82.2	165
06Z09	95	92	89	84	79	76	75	83.8	334
12Z15	88	86	85	83	80	78	78	82.7	177
18Z21	88	85	84	82	79	76	76	81.9	303
TOT	95	90	87	83	79	76	75	82.8	979

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00Z03	.0	.0	.0	31.3	56.3	12.5	83	64
06Z09	.0	.0	9.7	41.7	40.3	8.3	79	72
12Z15	.0	.0	4.0	26.0	58.0	12.0	82	50
18Z21	.0	.0	.0	23.1	69.2	7.7	83	78
TOT	0	0	9	81	148	26	82	264

APRIL

PERIOD: (PRIMARY) 1914-1972
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
11/13	.0	.0	.3	.0	.0	1	.0	.3
7/8	.0	.0	.3	.3	.0	2	.0	.7
6	.0	.0	.0	.0	.3	1	.0	.3
5	.0	.0	.0	.3	.0	1	.0	.3
4	.0	.0	.3	2.4	.3	9	.3	2.7
3	.0	.0	1.4	.7	.3	7	.0	2.4
2	.0	.0	2.7	3.4	1.0	21	.0	7.1
1	.0	.3	3.1	4.1	.0	22	.0	7.5
0	.0	.3	11.9	4.1	.0	48	.3	15.9
-1	.0	.3	17.3	2.4	.0	59	1.4	18.6
-2	.0	1.0	12.2	1.0	.0	42	.3	13.9
-3	.0	1.4	8.5	.0	.0	29	.3	9.5
-4	.0	2.4	8.8	.3	.0	34	.0	11.5
-5	.0	1.7	2.0	.0	.0	11	.0	3.7
-6	.0	.3	.3	.0	.0	2	.0	.7
-7/-8	.3	1.4	.0	.0	.0	5	.0	1.7
-9/-10	.0	.3	.0	.0	.0	1	.0	.3
TOTAL	1	28	204	56	6	295	8	287
PCT	.3	9.5	69.2	19.0	2.0	100.0	2.7	97.3

PERIOD: (OVER-ALL) 1963-1972

TABLE 16

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.5	.0	.0	.0	.0	1.5
1-2	.0	1.1	.0	.0	.0	.0	1.1
3-4	.0	1.5	.0	.0	.0	.0	1.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.2	.0	.0	.0	.0	4.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4
1-2	1.5	9.8	1.5	.0	.0	.0	12.9
3-4	.0	3.0	.0	.0	.0	.0	3.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	13.3	1.5	.0	.0	.0	16.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.5	1.1	.0	.0	.0	.0	2.7
1-2	.0	11.7	1.5	.0	.0	.0	13.3
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	1.5	.0	.0	.0	.0	1.5
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	14.4	1.5	.0	.0	.0	17.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.5	6.1	.0	.0	.0	.0	7.6
1-2	1.5	8.7	.0	.0	.0	.0	10.2
3-4	.0	3.0	.0	.0	.0	.0	3.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.0	17.8	.0	.0	.0	.0	20.8

APRIL

PERIOD: (OVER-ALL) 1963-1972 — AREA 0009 BANGKA ISLAND NORTHWEST .6S 105.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	1.1	9.8	.0	.0	.0	.0	11.0
3-4	.0	1.1	.0	.0	.0	.0	1.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	11.0	.0	.0	.0	.0	12.1

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.0	.0	.0	.0	.0	3.0
1-2	.4	2.7	.0	.0	.0	.0	3.0
3-4	.0	.4	.0	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	6.1	.0	.0	.0	.0	6.4

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.5	.0	.0	.0	.0	1.5
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	1.5	.0	.0	1.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.5	.0	1.5	.0	.0	3.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	1.5	.0	.0	.0	.0	.0	1.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	.0	.0	.0	.0	.0	1.5

HGT	TOTAL PCT
<1	.0
1-2	.0
3-4	1.5
5-6	.0
7	.0
8-9	.0
10-11	.0
12	.0
13-16	.0
17-19	.0
20-22	.0
23-25	.0
26-32	.0
33-40	.0
41-48	.0
49-60	.0
61-70	.0
71-86	.0
87+	.0
TOT PCT	81.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	20.9	11.9	.0	.0	.0	.0	32.8	
1-2	6.0	44.8	3.0	.0	.0	.0	53.7	
3-4	1.5	9.0	.0	.0	.0	.0	10.4	
5-6	.0	.0	.0	1.5	.0	.0	1.5	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	1.5	.0	.0	.0	.0	1.5	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	28.4	67.2	3.0	1.5	.0	.0	100.0	67

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	17.6	38.1	5.9	1.7	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	74	2
6-7	.0	.0	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	3
8-9	.0	.0	.8	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	4
10-11	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	2
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	27.7	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35	0
TOTAL	54	46	14	4	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	119	1
PCT	45.4	38.7	11.8	3.4	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1912-1972
(OVER-ALL) 1857-1972

AREA 0005 BANGKA ISLAND NORTHWEST
.0S 105.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	9.8	.0	.0	.0	.0	.0	9.8	.0	17.1	4.9	.0	.0	.0	.0	68.3
NE	2.9	17.4	.0	.0	.0	.0	.0	20.3	.0	4.3	.0	.0	.0	.0	.0	75.4
E	4.4	5.9	.0	.0	.0	.0	.0	10.3	.0	4.4	.0	.0	2.9	.0	.0	82.4
SE	2.6	.7	.0	.0	.0	.0	.0	3.3	1.3	5.3	.0	.0	.0	.0	.0	90.1
S	.0	5.7	.0	.0	.0	.0	.0	5.7	.0	2.9	.0	.0	.0	.0	.0	91.4
SW	2.4	2.4	.0	.0	.0	.0	.0	4.8	.0	4.8	.0	.0	.0	.0	.0	90.4
W	2.4	.0	4.9	.0	.0	.0	.0	7.3	.0	4.9	.0	.0	.0	.0	.0	87.8
NW	17.8	.0	.0	.0	.0	.0	.0	17.8	.0	8.9	4.4	.0	.0	.0	.0	68.9
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	4.2	8.3	.0	.0	.0	.0	.0	87.5
TOT PCT	2.8	3.6	.4	.0	.0	.0	.0	6.9	.8	5.6	.4	.0	.4	.0	.0	85.9
TOT OBS:	249															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZ PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	7.0	5.3	1.8	.0	.0	.0	.0	14.0	.0	.0	.0	.0	1.8	.0	.0	84.2
06&09	4.8	4.8	1.2	.0	.0	.0	.0	10.7	.0	.0	1.2	.0	.0	.0	.0	88.1
12&15	1.5	1.5	.0	.0	.0	.0	.0	3.1	1.5	7.7	.0	.0	.0	.0	.0	87.7
18&21	2.4	7.1	.0	.0	.0	.0	.0	9.5	1.2	14.3	4.8	.0	.0	.0	.0	70.2
TOT PCT	3.8	4.8	.7	.0	.0	.0	.0	9.3	.7	5.9	1.7	.0	.3	.0	.0	82.1
TOT OBS:	290															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.7	2.8	.0	.0	.0	.0		4.6	4.5	2.3	.0	3.2	7.1	7.3	.0	4.1	3.1
NE	1.9	4.2	.2	.0	.0	.0		6.2	5.3	4.9	.0	4.0	5.7	8.6	.0	9.2	5.0
E	2.4	8.4	.9	.1	.0	.0		11.8	6.2	7.4	17.9	8.8	11.5	15.5	60.0	15.3	9.5
SE	3.5	19.2	1.5	.1	.0	.0		24.2	6.6	30.3	32.1	24.5	17.9	23.3	20.0	23.6	25.6
S	4.1	13.9	1.7	.0	.0	.0		19.7	6.3	20.4	21.4	24.9	23.8	12.4	.0	15.5	22.5
SW	2.8	6.6	1.4	.0	.0	.0		10.8	6.2	14.8	14.3	13.9	8.7	8.1	10.0	9.9	8.8
W	1.4	3.3	.7	.0	.0	.0		5.4	6.4	7.9	.0	6.0	5.6	4.5	10.0	4.1	4.4
NW	1.8	2.2	.4	.0	.0	.0		4.3	4.9	4.8	.0	2.7	8.0	4.2	.0	3.4	4.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	13.0							13.0	.0	7.0	14.3	11.9	11.8	15.8	.0	14.8	16.8
TOT OBS	321	595	66	1	0	0	983		5.3	142	7	201	144	177	5	176	131
TOT PCT	32.7	60.5	6.7	.1	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.8	.8	.0	.0	.0		4.6	4.5	2.3	4.9	7.3	3.7
NE	4.5	1.7	.0	.0	.0		6.2	5.3	4.7	4.7	8.4	7.4
E	7.4	4.2	.2	.0	.0		11.8	6.2	7.9	9.9	16.8	12.9
SE	13.3	10.8	.2	.0	.0		24.2	6.6	30.4	21.7	23.2	24.4
S	12.1	7.4	.2	.0	.0		19.7	6.3	20.5	24.4	12.1	18.5
SW	6.9	3.7	.2	.0	.0		10.8	6.2	14.8	11.7	8.1	9.4
W	3.4	1.8	.3	.0	.0		5.4	6.4	7.6	5.8	4.7	4.3
NW	3.5	.8	.0	.0	.0		4.3	4.9	4.5	4.9	4.1	3.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	13.0						13.0	.0	7.4	11.9	15.4	13.6
TOT OBS	667	307	9	0	0	983		5.3	149	345	182	307
TOT PCT	67.9	31.2	.9	.0	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1912-1972
(OVER-ALL) 1857-1972

AREA 0005 BANGKA ISLAND NORTHWEST
.6S 105.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	7.4	18.1	66.4	8.1	.0	.0	.0	5.7	100.0	149
06&09	11.9	22.0	58.6	7.5	.0	.0	.0	5.3	100.0	345
12&15	15.4	17.6	61.5	5.5	.0	.0	.0	5.3	100.0	182
18&21	15.6	18.9	59.3	5.9	.3	.0	.0	5.2	100.0	307
TOT	128	193	595	66	1	0	0	5.3		983
PCT	13.0	19.6	60.5	6.7	.1	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.3	.0	.5	.0		2.0
NE	2.3	.5	.0	1.8		4.2
E	3.8	2.7	5.6	.9		4.2
SE	5.4	9.5	15.8	1.8		4.5
S	2.9	.9	7.2	.7		4.9
SW	.5	2.7	6.8	2.0		5.6
W	.9	.9	6.1	1.6		5.7
NW	.0	1.8	1.4	1.1		5.4
VAR	.0	.0	.0	.0		.0
CALM	1.8	4.5	3.6	.0		4.2
TOT OBS	22	26	52	11	111	4.7
TOT PCT	19.8	23.4	46.8	9.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	2.3	
NE	.0	.0	.0	.9	.9	.0	.0	.0	.0	.0	2.7	
E	.0	.0	.0	.0	1.6	1.6	.0	.0	.0	.0	9.9	
SE	.0	.0	.9	1.8	.2	1.1	2.0	.0	.0	.0	26.4	
S	.0	.0	.0	.0	.9	1.6	1.4	.0	.0	.0	7.9	
SW	.0	.0	.0	.0	3.2	2.3	.2	.0	.0	.0	6.3	
W	.0	.0	.0	.0	2.9	.7	.0	.0	.0	.0	5.9	
NW	.0	.0	.0	1.4	.2	.0	.9	.0	.0	.0	1.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	9.0	
TOT OBS	0	0	1	5	11	9	5	0	0	0	80	111
TOT PCT	.0	.0	.9	4.5	9.9	8.1	4.5	.0	.0	.0	72.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >90YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	1.7	3.5	4.3	4.3	4.3	4.3	4.3	4.3
* OR >2000	7.8	9.6	12.2	12.2	12.2	12.2	12.2	12.2
* OR >1000	17.4	20.0	22.6	22.6	22.6	22.6	22.6	22.6
* OR >600	21.7	24.3	27.0	27.0	27.0	27.0	27.0	27.0
* OR >300	22.6	25.2	27.8	27.8	27.8	27.8	27.8	27.8
* OR >150	22.6	25.2	27.8	27.8	27.8	27.8	27.8	27.8
* OR > 0	22.6	25.2	27.8	27.8	27.8	27.8	27.8	27.8
TOTAL	26	29	32	32	32	32	32	32

TOTAL NUMBER OF OBS: 115 PCT FREQ NH <5/8: 72.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
2.3	20.0	23.8	14.6	10.0	9.2	7.7	7.7	4.6	.0	130

PERIOD: (PRIMARY) 1912-1972
(OVER-ALL) 1957-1972

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.2	.2	.4	.0	.0	.0	.0	.0	.0	.8	
	NO PCP	.0	.0	.6	.2	.3	.9	.0	.0	.0	.4	2.4	
	TOT %	.0	.2	.8	.6	.3	.9	.0	.0	.0	.4	3.2	
5<10	PCP	.4	.8	.8	.2	.6	.2	.2	.4	.0	.0	3.6	
	NO PCP	1.2	2.6	3.5	8.5	4.0	1.8	1.8	1.0	.0	3.2	27.7	
	TOT %	1.6	3.4	4.3	8.7	4.6	2.0	2.0	1.4	.0	3.2	31.3	
10+	PCP	.0	.4	.4	.4	.2	.2	.4	.4	.0	.0	2.4	
	NO PCP	2.5	2.9	8.1	20.8	8.9	5.2	5.8	2.7	.0	6.0	63.1	
	TOT %	2.5	3.3	8.5	21.2	9.1	5.4	6.2	3.1	.0	6.0	65.5	
	TOT OBS												249
	TOT PCT	4.1	6.9	13.7	30.5	14.1	8.3	8.2	4.5	.0	9.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.1	.1	.0	.2	.2	.0	.0	.0	.2	.8	
	4-10	.0	.0	.2	.2	.1	.2	.0	.0	.0		.8	
	11-21	.0	.0	.1	.1	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.4	.3	.3	.4	.0	.0	.0	.2	1.7	
5<10	0-3	.2	.2	.3	.1	.8	.3	.4	.3	.0	1.5	4.0	
	4-10	.7	1.2	1.5	4.0	1.9	.9	.5	.3	.0		11.0	
	11-21	.0	.1	.4	.3	.0	.0	.2	.2	.0		1.1	
	22+	.0	.0	.1	.1	.0	.0	.0	.0	.0		.2	
	TOT %	.9	1.6	2.2	4.5	2.8	1.1	1.0	.8	.0	1.5	16.3	
10+	0-3	1.6	.9	2.5	3.7	2.7	2.4	1.2	1.2	.0	9.8	26.1	
	4-10	1.7	1.6	5.3	19.1	12.9	6.0	2.8	1.7	.0		50.9	
	11-21	.0	.2	.5	1.6	1.4	1.0	.2	.3	.0		5.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	3.3	2.7	8.1	24.3	17.0	9.4	4.3	3.3	.0	9.8	82.0	
	TOT OBS												529
	TOT PCT	4.1	4.4	10.7	29.1	19.9	10.9	5.3	4.3	.0	11.5	100.0	

PERIOD: (PRIMARY) 19?=1972
(OVER-ALL) 185 -1972

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	.0	7.4	14.8	7.4	7.4	.0	.0	.0	37.0	63.0	27
06E09	.0	.0	.0	6.5	12.9	12.9	.0	.0	.0	.0	32.3	67.7	31
12E15	.0	.0	.0	.0	6.1	6.1	3.0	.0	.0	.0	15.2	84.8	33
18E21	.0	.0	3.0	3.0	6.1	3.0	6.1	.0	.0	.0	21.2	78.8	33
TOT	0	0	1	5	12	9	5	0	0	0	32	92	124
PCT	.0	.0	.8	4.0	9.7	7.3	4.0	.0	.0	.0	25.8	74.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.0	.0	.0	.0	21.4	78.6	98
06E09	.6	.0	.0	2.3	17.4	79.7	172
12E15	.0	.0	.0	2.5	16.1	81.4	118
18E21	.5	.0	.0	1.1	20.9	77.5	182
TOT	2	0	0	9	108	451	570
PCT	.4	.0	.0	1.6	18.9	79.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	.0	8.0	32.0	60.0	25
06E09	.0	.0	10.3	24.1	65.5	29
12E15	.0	.0	6.5	12.9	80.6	31
18E21	.0	3.3	10.0	13.3	76.7	30
TOT	0	1	10	23	82	115
PCT	.0	.9	8.7	20.0	71.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	1.0	.0	.0	.0	2	1.0
85/89	.0	.0	.0	.0	1.4	13.8	4.3	1.4	44	21.0
80/84	.0	.0	.0	.0	1.0	19.5	63.3	10.5	156	74.3
75/79	.0	.0	.0	.0	.0	.0	1.9	1.9	8	3.8
TOTAL	0	0	0	0	7	70	104	29	210	100.0
PCT	.0	.0	.0	.0	3.3	33.3	49.5	13.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0
	1.5	1.1	1.8	10.1	2.8	.5	.5	.5	.0	2.4
	2.9	5.5	11.0	21.4	9.9	6.4	7.1	4.4	.0	5.7
	.0	.0	.8	.2	1.3	.7	.2	.5	.0	.0
	4.4	6.5	14.0	31.8	13.8	8.1	7.9	5.4	.0	8.1

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	92	88	86	82	78	77	73	82.4	154
06E09	95	91	88	84	80	77	75	84.0	342
12E15	87	86	85	83	80	78	78	83.1	181
18E21	87	85	84	83	80	78	78	82.5	313
TOT	95	88	87	83	80	78	73	83.1	990

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	4.2	22.9	52.1	20.8	84	48
06E09	.0	.0	7.2	44.9	42.0	5.8	79	69
12E15	.0	.0	.0	34.0	49.1	17.0	82	53
18E21	.0	.0	2.6	20.8	55.8	20.8	84	77
TOT	0	0	9	76	129	39	82	247

PERIOD: (PRIMARY) 1912-1972
(OVER-ALL) 1857-1972

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	77 80	81 84	85 88	89 92	TOT	# FOG	WO FOG
7/8	.0	.5	.0	.5	2	.0	.9
5	.0	.5	.0	.9	3	.0	1.4
4	.0	.9	.0	.9	4	.5	1.4
3	.0	.0	1.8	.0	4	.0	1.8
2	.0	1.4	3.6	.0	11	.0	5.0
1	.0	4.5	5.0	.0	21	.9	8.7
0	.0	8.6	5.9	.5	32	.9	13.0
-1	.0	10.9	1.8	.0	28	.0	12.7
-2	.0	18.2	1.4	.0	43	.5	19.5
-3	1.8	9.1	2.3	.0	29	.0	13.2
-4	.9	5.9	.5	.0	16	.0	7.3
-5	1.8	4.1	.0	.0	13	.0	5.9
-6	1.8	.5	.0	.0	5	.0	2.3
-7/-8	3.2	.5	.0	.0	8	.0	3.6
-9/-10	.5	.0	.0	.0	1	.0	.5
TOTAL	22	144	49	5	220	5	215
PCT	10.0	65.5	22.3	2.3	100.0	2.3	97.7

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	1.4	1.9	.0	.0	.0	.0	3.2
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	1.9	.0	.0	.0	.0	3.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.5	.0	.0	.0	.0	.0	.5
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	.0	.0	.0	.0	.0	.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.2	3.2	.0	.0	.0	6.5
3-4	.0	1.9	1.4	.0	.0	.0	3.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.1	4.6	.0	.0	.0	9.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	6.0	.0	.0	.0	.0	6.0
1-2	.0	13.9	2.8	.0	.0	.0	16.7
3-4	.0	9.3	6.0	.0	.0	.0	15.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	29.2	8.8	.0	.0	.0	38.0

PERIOD: (OVER-ALL) 1963-1972 — AREA 0005 BANGKA ISLAND NORTHWEST .6S 105.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	5.1	.0	.0	.0	.0	5.1
1-2	.0	5.1	3.2	.0	.0	.0	8.3
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	10.2	3.2	.0	.0	.0	13.4

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.9	.0	.0	.0	.0	.0	1.9
1-2	.0	6.5	.0	.0	.0	.0	6.5
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	6.5	.0	.0	.0	.0	8.3

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	3.7	1.9	.0	.0	.0	.0	5.6
1-2	.0	4.6	.0	.0	.0	.0	4.6
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.7	6.5	.0	.0	.0	.0	10.2

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	83.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	22.2	13.0	.0	.0	.0	.0	35.2	
1-2	1.9	35.2	9.3	.0	.0	.0	46.3	
3-4	.0	11.1	7.4	.0	.0	.0	18.5	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	24.1	59.3	16.7	.0	.0	.0	100.0	54

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	23.0	37.0	15.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	76	2
6-7	.0	1.0	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	3
8-9	.0	.0	1.0	.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	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	18.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	0
TOTAL	41	40	17	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	1
PCT	41.0	40.0	17.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1912-1972
(OVER-ALL) 1862-1972

AREA 0009 BANGKA ISLAND NORTHWEST
.6S 105.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	12.5	25.0	.0	.0	.0	.0	.0	37.5	.0	.0	12.5	.0	.0	.0		50.0
NE	17.6	.0	.0	.0	.0	.0	.0	17.6	11.8	11.8	11.8	.0	.0	.0		47.1
E	5.8	.0	.0	.0	.0	.0	.0	5.8	.0	13.1	2.9	.0	.0	.0		81.0
SE	.7	1.0	.0	.0	.0	.0	.0	1.7	.5	1.9	2.7	.0	.0	.0		93.2
S	1.2	1.7	.0	.0	.0	.0	.0	2.9	2.6	2.0	6.4	.0	.0	.0		80.0
SW	.0	8.2	.0	.0	.0	.0	.0	8.2	.0	.0	4.1	.0	.0	.0		87.6
W	40.0	.0	.0	.0	.0	.0	.0	40.0	.0	.0	.0	.0	.0	.0		60.0
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	10.0	.0	.0	.0	.0	.0	.0	10.0	.0	.0	.0	.0	.0	.0		90.0
TOT PCT	3.0	1.8	.0	.0	.0	.0	.0	4.8	1.2	3.0	3.9	.0	.0	.0		87.3
TOT OBS:	332															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00E03	1.6	1.6	.0	.0	.0	.0	.0	3.1	1.6	.0	4.7	.0	.0	.0		90.6
06E09	7.3	4.6	.0	.0	.0	.0	.0	11.9	.9	.9	3.7	.0	.0	.0		82.6
12E15	2.5	1.3	.0	.0	.0	.0	.0	3.8	1.3	2.5	3.8	.0	.0	.0		90.0
18E21	1.0	2.1	.0	.0	.0	.0	.0	3.1	1.0	8.2	5.2	.0	.0	.0		82.5
TOT PCT	3.4	2.6	.0	.0	.0	.0	.0	6.0	1.1	3.1	4.3	.0	.0	.0		85.7
TOT OBS:	350															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.7	.7	.0	.0	.0	.0		1.4	3.5	.7	.0	.5	2.5	2.7	5.6	1.0	1.1
NE	.8	1.7	.8	.0	.0	.0		2.5	4.6	1.1	.0	2.4	4.0	1.6	11.1	2.2	3.6
E	1.7	8.4	.8	.0	.0	.0		10.9	6.2	10.6	.0	5.8	8.9	12.8	11.1	15.4	13.8
SE	3.8	27.0	6.5	.0	.0	.0		37.3	7.5	39.9	53.1	39.4	35.3	38.2	38.9	37.4	31.0
S	4.6	19.7	3.6	.0	.0	.0		27.8	6.7	27.0	46.9	31.9	30.4	24.1	16.7	23.9	28.8
SW	.7	5.8	1.1	.0	.0	.0		7.6	7.2	8.7	.0	6.5	7.6	8.3	.0	8.3	7.2
W	.5	1.9	.6	.0	.0	.0		3.1	7.5	2.8	.0	5.6	4.0	2.4	.0	1.0	2.2
NW	1.4	1.0	.0	.0	.0	.0		2.4	3.7	4.3	.0	2.2	.7	2.1	5.6	1.9	3.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.0							7.0	.0	5.0	.0	5.8	6.5	7.7	11.1	8.9	8.7
TOT OBS	205	640	121	0	0	0	966		6.4	141	8	207	138	168	9	157	138
TOT PCT	21.2	66.3	12.5	.0	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.3	.1	.0	.0	.0		1.4	3.5	.7	1.3	2.8	1.0
NE	2.2	.3	.0	.0	.0		2.5	4.6	1.0	3.0	2.1	2.9
E	7.0	3.9	.0	.0	.0		10.9	6.2	10.1	7.0	12.7	14.7
SE	18.1	18.9	.3	.0	.0		37.3	7.5	40.6	37.8	38.3	34.4
S	16.0	11.5	.3	.0	.0		27.8	6.7	26.0	31.3	23.7	26.2
SW	4.9	3.0	.3	.0	.0		7.6	7.2	8.2	7.0	7.9	7.8
W	1.3	1.4	.1	.0	.0		3.1	7.5	2.7	4.9	2.3	1.5
NW	2.2	.3	.0	.0	.0		2.4	3.7	4.0	1.6	2.3	2.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	7.0						7.0	.0	4.7	6.1	7.9	8.8
TOT OBS	576	381	9	0	0	966		6.4	149	345	177	295
TOT PCT	59.6	39.4	.9	.0	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	4.7	14.8	66.4	14.1	.0	.0	.0	6.6	100.0	149
06&09	6.1	14.8	66.1	13.0	.0	.0	.0	6.5	100.0	345
12&15	7.9	13.0	67.8	11.3	.0	.0	.0	6.2	100.0	177
18&21	8.8	13.9	65.4	11.9	.0	.0	.0	6.1	100.0	295
TOT	68	137	640	121	0	0	0	6.4		966
PCT	7.0	14.2	66.3	12.5	.0	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.0		.0
NE	.0	.0	.0	.9		.0
E	2.7	4.5	2.7	.0		3.4
SE	7.9	14.4	17.8	2.9		4.4
S	4.7	8.1	9.7	5.2		5.0
SW	2.7	1.8	5.0	.0		4.4
W	.0	.9	.5	1.8		6.7
NW	.0	.0	1.4	.0		6.3
VAR	.0	.0	.0	.0		.0
CALM	.9	.9	.9	1.8		5.2
TOT OBS	21	40	42	14	111	4.6
TOT PCT	18.9	30.6	37.8	12.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NM >4/8) AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	
E	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	9.5	
SE	.0	.0	.0	2.7	2.9	2.0	1.1	.5	.0	.2	33.6	
S	.0	.0	.0	.0	.7	1.6	1.1	.0	.0	.7	23.6	
SW	.0	.0	.0	.0	.9	.0	1.4	.0	.0	.0	7.2	
W	.0	.0	.0	.9	.9	.5	.0	.0	.0	.0	.9	
NW	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	2.7	.0	.0	.0	.0	.0	1.8	
TOT OBS	0	0	0	4	9	5	4	1	0	1	87	111
TOT PCT	.0	.0	.0	3.6	8.1	4.5	3.6	.9	.0	.9	78.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8
* OR >5000	1.8	2.6	2.6	2.6	2.6	2.6	2.6	2.6
* OR >3500	5.3	6.1	6.1	6.1	6.1	6.1	6.1	6.1
* OR >2000	10.5	11.4	11.4	11.4	11.4	11.4	11.4	11.4
* OR >1000	16.7	18.4	19.3	19.3	19.3	19.3	19.3	19.3
* OR >600	20.2	21.9	22.8	22.8	22.8	22.8	22.8	22.8
* OR >300	20.2	21.9	22.8	22.8	22.8	22.8	22.8	22.8
* OR >150	20.2	21.9	22.8	22.8	22.8	22.8	22.8	22.8
* OR > 0	20.2	21.9	22.8	22.8	22.8	22.8	22.8	22.8
TOTAL	23	25	26	96	26	26	26	26

TOTAL NUMBER OF OBS: 114 PCT FREQ NM <5/8: 77.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
5.7	19.7	24.6	16.4	8.2	7.4	4.9	5.7	7.4	.0	122

PERIOD: (PRIMARY) 1912-1972
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
2<5	NO PCP	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.6	
	PCP	.5	.5	.3	.8	.6	.5	.6	.0	.0	.3	3.9	
5<10	NO PCP	.2	1.1	4.2	18.9	7.6	2.9	.5	2.1	.0	.9	38.3	
	TOT %	.6	1.5	4.5	19.7	8.2	3.3	1.1	2.1	.0	1.2	42.2	
	PCP	.0	.0	.3	.0	.2	.2	.0	.0	.0	.0	.6	
10+	NO PCP	.6	1.1	5.5	24.2	17.5	3.6	.9	.9	.0	1.8	56.3	
	TOT %	.6	1.1	5.8	24.2	17.7	4.0	.9	.9	.0	1.8	56.9	
	TOT OBS												332
	TOT PCT	1.2	2.6	10.3	44.4	25.9	7.3	2.3	3.0	.0	3.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

/SBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
<1/2	4-10	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.2	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	0-3	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
2<5	4-10	.0	.1	.1	.2	.0	.2	.0	.0	.0		.5	
	11-21	.0	.0	.0	.0	.0	.0	.2	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.1	.2	.0	.2	.2	.0	.0	.2	.8	
	0-3	.3	.3	.8	.6	1.3	.1	.2	.3	.0	.7	4.5	
5<10	4-10	.1	.5	1.6	6.6	2.9	1.9	.3	.8	.0		14.7	
	11-21	.0	.0	.1	4.0	.7	.2	.1	.0	.0		5.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.8	2.5	11.1	4.8	2.2	.6	1.2	.0	.7	24.2	
	0-3	.6	.6	1.4	3.1	3.4	.8	.2	.7	.0	4.5	15.2	
10+	4-10	.3	.6	5.8	22.5	15.0	4.6	1.3	.4	.0		50.6	
	11-21	.0	.0	.8	3.8	3.1	.6	.2	.0	.0		8.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.9	1.2	8.1	29.4	21.5	6.0	1.7	1.1	.0	4.5	74.3	
	TOT OBS												599
	TOT PCT	1.3	2.1	10.6	41.1	26.6	8.3	2.4	2.3	.0	5.3	100.0	

PERIOD: (PRIMARY) 1912-1972
(OVER-ALL) 1862-1972

AREA 0005 BANGKA ISLAND NORTHWEST
.6S 105.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	.0	.0	8.3	.0	.0	.0	.0	.0	8.3	91.7	24
06E09	.0	.0	.0	6.5	9.7	16.1	.0	.0	.0	.0	32.3	67.7	31
12E15	.0	.0	.0	2.8	5.6	.0	5.6	.0	.0	2.8	16.7	83.3	36
18E21	.0	.0	.0	3.8	7.7	3.8	7.7	3.8	.0	3.8	30.8	69.2	26
TOT	0	0	0	4	9	6	4	1	0	2	26	91	117
PCT	.0	.0	.0	3.4	7.7	5.1	3.4	.9	.0	1.7	22.2	77.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	1.0	.0	.0	.0	25.2	73.8	103
06E09	.0	.0	.5	2.0	27.3	70.2	198
12E15	.8	.0	.0	.0	22.5	76.7	129
18E21	.0	.5	.0	.5	25.1	73.8	187
TOT	2	1	1	5	156	452	617
PCT	.3	.2	.2	.8	25.3	73.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	.0	.0	8.3	91.7	24
06E09	.0	.0	10.0	23.3	66.7	30
12E15	.0	.0	2.9	14.3	82.9	35
18E21	.0	.0	4.0	28.0	68.0	25
TOT	0	0	5	21	88	114
PCT	.0	.0	4.4	18.4	77.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.8	.8	.0	.0	4	1.5
85/89	.0	.0	.0	.0	1.9	11.6	5.4	.8	51	19.7
80/84	.0	.0	.0	.0	1.9	23.6	39.0	9.7	191	73.7
75/79	.0	.0	.0	.0	.0	.4	2.7	1.9	13	5.0
TOTAL	0	0	0	0	11	94	122	32	259	100.0
PCT	.0	.0	.0	.0	4.2	36.3	47.1	12.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.4	.8	.0	.4	.0	.0	.0	.0
	.0	.0	2.0	7.8	5.6	2.7	.4	.8	.0	.4
	.4	2.3	8.6	36.8	17.2	3.3	.6	2.5	.0	1.9
	.4	.0	.2	1.0	1.2	.4	1.2	.4	.0	.4
	.8	2.3	11.2	46.3	23.9	6.8	2.3	3.7	.0	2.7

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	89	88	86	82	79	77	76	82.4	148
06E09	95	91	89	84	79	77	75	83.9	344
12E15	88	87	86	83	80	79	79	83.0	179
18E21	88	85	84	82	79	77	76	82.2	296
TOT	95	90	87	83	79	77	75	83.0	967

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	2.1	23.4	59.6	14.9	83	47
06E09	.0	.0	10.2	40.9	37.5	11.4	79	88
12E15	.0	.0	1.6	44.3	44.3	9.8	81	61
18E21	.0	.0	.0	32.9	49.4	17.7	83	79
TOT	0	0	11	100	127	37	81	275

PERIOD: (PRIMARY) 1912-1972
(OVER-ALL) 1862-1972

TABLE 17

AREA 0005 BANGKA ISLAND NORTHWEST
.65 105.0E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
9/10	.0	.0	.7	.0	.0	2	.0	.7
7/8	.0	.0	.3	1.0	1.0	7	.0	2.4
6	.0	.3	1.0	.3	.3	6	.0	2.0
5	.0	.0	.7	.7	.3	5	.0	1.7
4	.0	.3	.7	1.4	.0	7	.0	2.4
3	.0	.0	.0	2.4	.0	7	.3	2.0
2	.0	.3	4.1	3.7	.0	24	.0	8.1
1	.0	.0	5.4	2.0	.0	22	1.0	6.4
0	.0	.0	13.9	5.8	.0	58	.3	19.3
-1	.0	1.0	11.5	1.4	.0	41	.7	13.2
-2	.0	2.4	14.6	1.0	.0	53	1.0	16.9
-3	.0	.7	5.1	.7	.0	19	.7	5.8
-4	.0	2.4	3.7	.3	.0	19	.3	6.1
-5	.0	1.7	3.4	.0	.0	15	.0	5.1
-6	.0	.3	.7	.0	.0	3	.0	1.0
-7/-8	.0	1.0	1.0	.0	.0	6	.0	2.0
-9/-10	.3	.0	.0	.0	.0	1	.0	.3
TOTAL	1		197		5	295	13	282
PCT	.3	10.5	66.8	20.7	1.7	100.0	4.4	95.6

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.9	.0	.0	.0	.0	1.9
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.9	.0	.0	.0	.0	1.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.9	.0	.0	.0	.0	1.9
1-2	.0	1.9	6.7	.0	.0	.0	8.7
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.8	6.7	.0	.0	.0	10.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	6.3	.0	.0	.0	.0	6.3
1-2	.0	16.3	7.2	.0	.0	.0	27.4
3-4	.0	.0	8.2	.0	.0	.0	8.2
5-6	.0	1.9	2.4	.0	.0	.0	4.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	24.5	17.8	.0	.0	.0	46.2

PERIOD: (OVER-ALL) 1963-1972 JUNE AREA 0005 BANGKA ISLAND NORTHWEST

TABLE 18 (CONT) .6S 105.0E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.4	.0	.0	.0	.0	1.4
1-2	.0	12.0	1.4	.0	.0	.0	13.5
3-4	.0	.0	6.7	.0	.0	.0	6.7
5-6	.0	.0	1.4	.0	.0	.0	1.4
7	.0	.0	1.9	.0	.0	.0	1.9
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	13.5	11.5	.0	.0	.0	25.0

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.4	.0	.0	.0	.0	2.4
3-4	.0	.0	2.4	.0	.0	.0	2.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.4	2.4	.0	.0	.0	4.8

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.9	.0	.0	.0	.0	1.9
1-2	.0	1.9	.0	.0	.0	.0	1.9
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	1.9	.0	.0	.0	1.9
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.8	1.9	.0	.0	.0	5.8

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	[illegible]	.0	.0	.0	.0	94.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.8	11.5	.0	.0	.0	.0	17.3	
1-2	3.8	36.5	15.4	.0	.0	.0	55.8	
3-4	.0	.0	17.3	.0	.0	.0	17.3	
5-6	.0	1.9	3.8	.0	.0	.0	5.8	
7	.0	.0	3.8	.0	.0	.0	3.8	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.6	50.0	40.4	.0	.0	.0	100.0	52

PERIOD: (OVER-ALL) 1949-1972 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	14.8	37.0	18.5	2.5	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	60	2
6-7	1.2	1.2	1.2	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
10-11	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
12-13	.0	.0	1.2	.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	
INDEF	11.1	3.7	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	1
TOTAL	22	34	19	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	81	2
PCT	27.2	42.0	23.5	4.9	1.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1910-1972
(OVER-ALL) 1857-1972

AREA 0005 BANGKA ISLAND NORTHWEST
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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42.1	.0	.0		.0	57.9
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	15.4	7.7	.0	.0		.0	76.9
E	1.8	5.3	3.5	.0	.0	.0	.0	10.6	.0	5.3	12.4	.0	.0		.0	73.5
SE	1.8	2.7	.0	.0	.0	.0	.0	4.5	1.5	5.8	2.0	.0	.0		.0	86.5
S	2.2	1.9	.0	.0	.0	.0	.0	4.1	1.0	3.5	3.8	.0	1.3		.0	86.3
SW	6.5	.0	.0	.0	.0	.0	.0	6.5	.0	6.5	6.5	.0	.0		.0	80.6
W	22.2	.0	.0	.0	.0	.0	.0	22.2	.0	5.6	11.1	.0	.0		.0	61.1
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	26.1	.0	.0	.0		.0	73.9
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	33.3	.0	.0	.0		.0	66.7
TOT PCT	2.6	2.3	.3	.0	.0	.0	.0	5.3	1.0	6.3	4.6	.0	.3		.0	82.9
TOT OBS:	304															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	5.7	2.9	.0	.0	.0	.0	.0	8.6	1.4	.0	2.9	.0	.0		.0	87.1
06&09	2.2	6.5	.0	.0	.0	.0	.0	8.7	1.1	1.1	8.7	.0	.0		.0	81.5
12&15	1.5	.0	.0	.0	.0	.0	.0	1.5	1.5	4.5	6.1	.0	.0		.0	86.4
18&21	1.1	1.1	1.1	.0	.0	.0	.0	3.4	1.1	19.1	3.4	.0	1.1		.0	71.9
TOT PCT	2.5	2.8	.3	.0	.0	.0	.0	5.7	1.3	6.6	5.4	.0	.3		.0	81.1
TOT OBS:	317															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.4	.8	.2	.0	.0	.0		1.3	6.0	.0	.0	1.0	2.1	2.5	.0	1.8	.8
NE	.5	1.9	.1	.0	.0	.0		2.4	5.8	1.1	.0	1.3	3.4	3.1	.0	4.3	1.9
E	1.7	10.2	1.1	.0	.0	.0		13.0	6.5	9.9	6.7	3.8	8.9	17.5	.5	19.7	13.5
SE	2.5	29.8	11.5	.2	.0	.0		44.1	8.8	49.3	48.3	42.9	44.9	43.1	87.5	41.9	42.7
S	2.0	17.3	5.1	.1	.1	.0		24.6	8.4	26.4	25.0	29.1	27.5	21.9	31.3	18.4	23.3
SW	.8	4.2	.8	.3	.1	.0		6.2	9.8	3.2	13.3	8.6	3.8	9.3	12.5	5.4	8.7
W	.2	1.4	.8	.1	.1	.0		2.5	10.1	3.9	.0	2.4	1.7	1.3	6.3	2.6	3.5
NW	.7	1.3	.2	.0	.0	.0		2.2	5.8	2.1	.0	1.6	2.5	1.6	.0	3.8	1.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.8							3.8	.0	4.2	6.7	4.2	3.1	3.8	.0	2.0	3.8
TOT OBS	124	613	181	6	2	0	916		7.9	142	15	191	118	160	8	152	130
TOT PCT	12.4	46.9	19.8	.7	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.9	.5	.0	.0	.0		1.3	6.0	.0	1.5	2.4	1.3
NE	1.6	.8	.0	.0	.0		2.4	5.8	1.0	2.1	3.0	2.2
E	7.7	5.2	.1	.0	.0		13.0	6.5	9.6	6.8	17.3	10.8
SE	14.1	28.4	1.6	.0	.0		44.1	8.8	49.2	43.7	42.9	42.3
S	9.1	14.4	1.0	.0	.1		24.6	8.4	26.8	28.6	22.3	20.7
SW	2.4	3.3	.2	.2	.1		6.2	9.8	4.1	6.8	9.7	6.9
W	1.3	.6	.4	.1	.0		2.5	10.1	3.5	2.1	1.5	3.0
NW	1.4	.7	.1	.0	.0		2.2	5.8	1.9	1.9	1.5	2.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.8						3.8	.0	4.3	4.5	3.6	2.8
TOT OBS	387	494	32	2	1	916		7.9	187	309	168	252
TOT PCT	42.2	53.9	3.5	.2	.1		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1910-1972
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	4.5	8.3	67.5	19.1	.6	.0	.0	7.9	100.0	157
06&09	4.5	7.4	61.2	25.2	1.3	.3	.0	8.4	100.0	309
12&15	3.6	8.9	68.5	18.5	.0	.6	.0	7.9	100.0	166
18&21	2.8	9.9	72.0	14.9	.4	.0	.0	7.4	100.0	282
TOT	35	79	613	181	6	2	0	7.9		916
PCT	3.8	8.6	66.9	19.8	.7	.2	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.9	.0	.7	.0		3.5
NE	.9	.0	.0	.0		2.0
E	3.5	1.5	2.4	.9		3.9
SE	17.6	8.9	19.3	5.2		4.3
S	6.7	3.5	12.0	6.7		5.1
SW	.0	.0	.2	3.7		7.9
W	.0	1.3	.0	1.7		6.2
NW	.9	.4	.2	.0		3.2
VAR	.0	.0	.0	.0		.0
CALM	.0	.9	.0	.0		4.0
TOT OBS	35	19	40	21	115	4.7
TOT PCT	30.4	16.5	34.8	18.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	
E	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	7.4	
SE	.0	.0	.0	.9	4.6	2.2	.9	.0	.0	.2	42.4	
S	.0	.0	.0	.0	4.1	1.3	1.7	.0	.0	.7	21.1	
SW	.0	.0	.0	.0	1.7	.0	.0	.0	.0	.0	2.2	
W	.0	.0	.9	.0	.9	.0	.0	.0	.0	.0	1.3	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	
TOT OBS	0	0	1	2	13	4	3	0	0	1	91	115
TOT PCT	.0	.0	.9	1.7	11.3	3.5	2.6	.0	.0	.9	79.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.9	.9	.9	.9	.9	.9	.9	.9
* OR >5000	.9	.9	.9	.9	.9	.9	.9	.9
* OR >3500	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
* OR >2000	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
* OR >1000	15.4	17.1	17.9	17.9	17.9	17.9	17.9	17.9
* OR >600	16.2	19.7	20.5	20.5	20.5	20.5	20.5	20.5
* OR >300	16.2	19.7	21.4	21.4	21.4	21.4	21.4	21.4
* OR >150	16.2	19.7	21.4	21.4	21.4	21.4	21.4	21.4
* OR > 0	16.2	19.7	21.4	21.4	21.4	21.4	21.4	21.4
TOTAL	19	23	25	25	25	25	25	25

TOTAL NUMBER OF OBS: 117 PCT FREQ NH <5/8: 78.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
8.1	21.0	24.2	12.1	12.9	8.1	5.6	2.4	5.6	.0	124

JULY

PERIOD: (PRIMARY) 1910-1972
(OVER-ALL) 1857-1972

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.2	.2	.3	.5	.2	.3	.0	.0	.0	1.7	
	TOT %	.0	.2	.2	.3	.5	.2	.3	.0	.0	.0	1.7	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.2	.2	.0	.0	.3	.0	.0	.0	.0	.0	.7	
	TOT %	.2	.2	.0	.0	.3	.0	.0	.0	.0	.0	.7	
2<5	PCP	.0	.0	.0	.3	.3	.0	.3	.0	.0	.0	1.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.3	.3	.0	.3	.0	.0	.0	1.0	
5<10	PCP	.0	.0	1.0	1.2	.5	.0	.0	.0	.0	.0	2.6	
	NO PCP	.8	.7	3.6	19.8	8.6	.8	.7	.0	.0	1.3	36.3	
	TOT %	.8	.7	4.6	21.0	9.1	.8	.7	.0	.0	1.3	38.9	
10+	PCP	.0	.0	.0	.7	.2	.3	.3	.0	.0	.0	1.7	
	NO PCP	.6	1.2	4.4	26.9	15.4	3.8	1.3	1.9	.0	.7	56.1	
	TOT %	.6	1.2	4.4	27.6	15.7	4.1	1.7	1.9	.0	.7	57.8	
	TOT OBS												303
	TOT PCT	1.6	2.1	9.2	49.3	25.9	5.1	3.0	1.9	.0	2.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.2	.2	.0	.0	.0	.0	.0		.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.4	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.1	.0	.3	.1	.2	.0	.0		.7	
	11-21	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.1	.2	.3	.1	.2	.0	.0	.0	.9	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.1	.2	.0	.2	.0	.0	.0	.0		.6	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.1	.2	.0	.2	.0	.0	.0	.0	.0	.6	
2<5	0-3	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	4-10	.0	.0	.0	.4	.0	.0	.2	.0	.0		.6	
	11-21	.0	.0	.0	.2	.0	.0	.2	.0	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.6	.2	.0	.4	.0	.0	.0	1.1	
5<10	0-3	.2	.2	.5	.6	.5	.2	.0	.0	.0	.7	2.8	
	4-10	.3	.2	2.2	7.2	2.4	.3	.4	.0	.0		12.9	
	11-21	.0	.0	.1	4.4	2.4	.0	.0	.0	.0		9.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.5	.4	2.7	12.2	5.3	.5	.4	.0	.0	.7	22.7	
10+	0-3	.2	.0	.7	1.7	1.8	.7	.1	.3	.0	2.1	7.5	
	4-10	.2	1.3	6.6	25.7	15.3	3.0	1.0	1.1	.0		54.3	
	11-21	.1	.0	1.0	7.6	3.2	.1	.2	.0	.0		12.2	
	22+	.1	.0	.0	.2	.1	.0	.0	.0	.0		.4	
	TOT %	.4	1.3	8.3	35.3	20.5	3.8	1.3	1.4	.0	2.1	74.3	
	TOT OBS												534
	TOT PCT	1.0	1.9	11.5	48.4	26.5	4.4	2.2	1.4	.0	2.8	100.0	

JULY

PERIOD: (PRIMARY) 1910-1972
(OVER-ALL) 1857-1972

TABLE 10

AREA 0009 BANGKA ISLAND NORTHWEST
.6S 105.1E

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	.0	3.2	19.4	3.2	3.2	.0	.0	.0	29.0	71.0	31
06E09	.0	.0	.0	.0	12.5	.0	.0	.0	.0	4.2	16.7	83.3	24
12E15	.0	.0	2.9	.0	8.8	2.9	2.9	.0	.0	.0	17.6	82.4	34
18E21	.0	.0	.0	6.1	3.0	6.1	3.0	.0	.0	.0	18.2	81.8	33
TOT	0	0	1	3	13	4	3	0	0	1	25	97	122
PCT	.0	.0	.8	2.5	10.7	3.3	2.5	.0	.0	.8	20.5	79.5	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
00E03	2.0	1.0	.0	2.0	19.6	75.5	102
06E09	.0	2.4	.0	1.2	27.5	68.9	167
12E15	.0	1.9	.9	1.9	21.3	74.1	108
18E21	.0	.0	1.2	.0	24.1	74.7	170
TOT	2	7	3	6	130	399	547
PCT	.4	1.3	.5	1.1	23.8	72.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<1SO <500YD	<500 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	.0	3.3	26.7	70.0	30
06E09	.0	.0	4.3	13.0	82.6	23
12E15	.0	3.1	3.1	15.6	81.3	32
18E21	.0	.0	6.3	12.5	81.3	32
TOT	0	1	5	20	92	117
PCT	.0	.9	4.3	17.1	78.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.4	.0	.0	.0	1	.4
85/89	.0	.0	.0	.0	1.8	9.0	2.7	.0	30	13.5
80/84	.0	.0	.0	.0	.9	26.9	47.1	5.8	180	80.7
75/79	.0	.0	.0	.0	.0	.4	1.8	3.1	12	5.4
TOTAL	0	0	0	0	7	81	115	20	223	100.0
PCT	.0	.0	.0	.0	3.1	36.3	51.6	9.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.4	.0	.0	.0	.0	.0	.0
.4	.4	1.3	8.6	2.1	.0	.4	.0	.0	.0
1.7	2.3	7.3	40.5	20.2	3.6	2.0	.8	.0	2.2
.0	.0	.3	2.1	1.6	.4	.4	.4	.0	.0
2.1	2.9	9.0	51.7	23.9	4.0	2.9	1.2	.0	2.2

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	88	87	86	82	78	75	73	81.7	152
06E09	93	90	88	84	79	77	75	83.7	300
12E15	88	85	85	82	79	78	75	82.3	169
18E21	85	84	84	82	79	76	76	81.8	281
TOT	93	88	86	82	79	76	73	82.5	902

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	.0	26.5	53.1	20.4	83	49
06E09	.0	.0	11.1	47.6	36.5	4.8	77	63
12E15	.0	.0	.0	42.0	52.0	6.0	80	50
18E21	.0	.0	.0	27.4	63.0	9.6	82	73
TOT	0	0	7	84	121	29	81	235

PERIOD: (PRIMARY) 1910-1972
(OVER-ALL) 1857-1972

AREA 0005 BANGKA ISLAND NORTHWEST
.6S 105.1E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.0	.4	1	.0	.4
4	.0	.0	.0	2.1	.4	6	.0	2.5
3	.0	.0	.0	.8	.0	2	.0	.8
2	.4	.0	2.9	2.9	.8	17	.4	6.7
1	.0	.0	6.3	3.3	.0	23	1.3	8.4
0	.0	.0	17.6	5.0	.0	54	1.3	21.2
-1	.0	.0	18.4	1.3	.0	47	2.1	17.6
-2	.0	.8	13.8	.0	.0	35	1.3	13.4
-3	.0	3.8	5.4	.0	.0	22	.4	8.8
-4	.0	3.8	4.2	.0	.0	19	.0	7.9
-5	.0	1.3	1.3	.0	.0	6	.0	2.5
-6	.0	.8	.8	.0	.0	4	.0	1.7
-7/-8	.0	.4	.4	.0	.0	2	.0	.8
-9/-10	.0	.4	.0	.0	.0	1	.0	.4
TOTAL	1	27	170	37	4	239	16	223
PCT	.4	11.3	71.1	15.5	1.7	100.0	6.7	93.3

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	1.9	.0	.0	.0	.0	1.9
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.9	.0	.0	.0	.0	1.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.4	.0	.0	.0	.0	1.4
1-2	.0	3.8	.0	.0	.0	.0	3.8
3-4	.0	.0	1.4	.0	.0	.0	1.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.3	1.4	.0	.0	.0	6.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5
1-2	.0	19.2	6.3	.0	.0	.0	25.5
3-4	.0	7.7	13.9	.0	.0	.0	21.6
5-6	.0	.0	7.7	.5	.0	.0	8.2
7	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	27.4	28.4	.5	.0	.0	56.3

PERIOD: (OVER-ALL) 1963-1972

JULY

TABLE 18 (CONT)

AREA 0005 BANGKA ISLAND NORTHWEST
.6S 105.1E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.9	.0	.0	.0	.0	.0	1.9	.0	5.8	.0	.0	.0	.0	5.8
1-2	.0	5.8	1.4	.0	.0	.0	7.2	.0	1.9	.0	.0	.0	.0	1.9
3-4	.0	1.9	1.9	.0	.0	.0	3.8	.0	1.9	.0	.0	.0	.0	1.9
5-6	.0	1.9	5.8	1.4	.0	.0	9.1	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	1.4	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	9.6	10.6	1.4	.0	.0	23.6	.0	9.6	.0	.0	.0	.0	9.6

	W							NW						TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.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	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.9	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.8	7.5	.0	.0	.0	.0	11.3	
1-2	.0	32.1	7.5	.0	.0	.0	39.6	
3-4	.0	13.2	17.0	.0	.0	.0	30.2	
5-6	.0	1.9	13.2	1.9	.0	.0	17.0	
7	.0	.0	1.9	.0	.0	.0	1.9	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.8	54.7	39.6	1.9	.0	.0	100.0	53

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	5.9	36.9	18.8	8.2	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	61	3
6-7	.0	1.2	5.9	3.5	1.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	11.8	1.2	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	1
TOTAL	15	33	23	10	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	85	3
PCT	17.6	38.8	27.1	11.8	3.5	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25.0		.0	75.0
NE	.0	5.4	.0	.0	.0	.0	.0	5.4	.0	.0	10.8	.0	21.6		.0	62.2
E	2.0	1.4	.0	.0	.0	.0	.0	3.4	.0	.0	.0	.0	8.1		.0	88.5
SE	1.6	2.1	.0	.0	.0	.0	.0	3.6	.0	.7	2.8	.0	3.8		.0	89.8
S	.0	3.6	1.8	.0	.0	.0	.0	5.4	1.8	.0	5.4	.0	.9		1.8	84.8
SW	.0	.0	.0	.0	.0	.0	.0	.0	9.8	.0	.0	.0	.0		.0	90.2
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23.5		.0	76.5
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	11.1	.0	.0	.0	.0	.0	.0	11.1	.0	.0	.0	.0	.0		.0	88.9
TOT PCT	1.4	2.2	.4	.0	.0	.0	.0	4.0	.7	.4	2.9	.0	4.7		.4	87.3
TOT OBS:	276															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03	3.1	4.7	.0	.0	.0	.0	.0	7.8	1.6	1.6	3.1	.0	.0		1.6	85.9
06&09	.0	2.4	.0	.0	.0	.0	.0	2.4	.0	.0	2.4	.0	7.1		.0	88.2
12&15	3.1	3.1	.0	.0	.0	.0	.0	6.3	.0	.0	4.7	.0	3.1		.0	85.9
18&21	1.3	.0	1.3	.0	.0	.0	.0	2.6	1.3	1.3	2.6	.0	7.8		.0	85.7
TOT PCT	1.7	2.4	.3	.0	.0	.0	.0	4.5	.7	.7	3.1	.0	4.8		.3	86.6
TOT OBS:	290															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.2	.5	.0	.0	.0	.0		.7	5.9	.0	.0	.0	.0	1.5	.0	2.0	.8
NE	.5	2.2	.2	.0	.0	.0		2.9	6.5	1.4	6.3	1.6	1.5	4.5	3.3	5.7	2.5
E	1.3	10.4	2.5	.0	.0	.0		14.2	8.1	9.0	18.8	9.7	13.3	17.5	16.7	20.3	15.6
SE	2.4	34.4	12.6	.1	.0	.0		49.5	9.0	59.5	31.3	48.4	46.6	47.4	56.7	45.5	54.7
S	1.7	13.7	5.6	.1	.0	.0		21.0	8.5	24.6	25.0	24.9	23.1	16.1	10.0	17.2	21.3
SW	.8	3.0	.9	.1	.0	.0		4.7	7.8	5.5	18.8	7.0	6.1	3.6	8.3	2.3	2.0
W	.0	1.8	.3	.1	.0	.0		2.1	7.9	2.8	.0	3.2	3.4	1.5	5.0	.3	1.2
NW	.1	.6	.3	.1	.0	.0		1.1	10.3	.4	.0	1.1	2.3	1.2	.0	2.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.6							3.6	.0	.7	.0	4.2	3.8	6.6	.0	4.7	.8
TOT OBS	97	616	207	4	0	0	924		8.3	141	8	190	132	166	15	150	122
TOT PCT	10.5	66.7	22.4	.4	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.4	.3	.0	.0	.0		.7	5.9	.0	.0	1.4	1.5
NE	1.7	1.2	*	.0	.0		2.9	6.5	1.7	1.6	4.4	4.2
E	4.7	9.2	.2	.0	.0		14.2	8.1	9.6	11.2	17.4	18.2
SE	14.2	32.6	2.7	.0	.0		49.5	9.0	54.2	47.7	48.2	50.1
S	8.3	11.8	1.0	.0	.0		21.0	8.5	24.7	24.1	15.6	19.0
SW	2.1	2.5	.2	.0	.0		4.7	7.8	6.2	6.6	4.0	2.2
W	1.2	.8	.2	.0	.0		2.1	7.9	4.7	3.3	1.8	.7
NW	.6	.2	.3	.0	.0		1.1	10.3	.3	1.6	1.1	1.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.6						3.6	.0	.7	4.0	6.1	2.9
TOT OBS	339	542	43	0	0	924		8.3	149	322	181	272
TOT PCT	36.7	58.7	4.7	.0	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

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PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.7	8.1	61.1	30.2	.0	.0	.0	8.8	100.0	149
06&09	1.0	6.8	66.5	22.0	.6	.0	.0	8.3	100.0	322
12&15	6.1	3.0	69.6	19.3	.0	.0	.0	7.9	100.0	181
18&21	2.9	7.7	68.0	20.6	.7	.0	.0	8.2	100.0	272
TOT	33	64	616	207	4	0	0	8.3		924
PCT	3.6	6.9	66.7	22.4	.4	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.0		.0
NE	.0	1.1	1.1	.0		5.0
E	2.0	4.3	2.9	2.0		4.7
SE	8.3	11.5	17.0	8.9		5.0
S	5.7	14.7	8.3	5.2		4.5
SW	.3	1.7	1.1	.0		4.5
W	.9	.0	.6	.0		4.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	1.1	.0	.0	1.1		4.0
TOT OBS	16	29	27	15	87	4.7
TOT PCT	18.4	33.3	31.0	17.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NE	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	1.1	
E	.0	.0	.0	.0	.0	2.0	.0	.0	.0	.9	8.3	
SE	.0	.0	.0	2.3	1.1	.9	.0	1.1	.0	1.4	38.8	
S	.0	.0	.0	1.1	2.3	2.9	1.1	.0	.0	.0	26.4	
SW	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	2.6	
W	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.9	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	1.1	
TOT OBS	0	0	0	3	4	5	3	1	0	2	69	87
TOT PCT	.0	.0	.0	3.4	4.6	5.7	3.4	1.1	.0	2.3	79.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >5YD	* OR >0
* OR >6500	1.1	2.3	2.3	2.3	2.3	2.3	2.3	2.3
* OR >5000	2.3	3.4	3.4	3.4	3.4	3.4	3.4	3.4
* OR >3500	5.7	6.9	6.9	6.9	6.9	6.9	6.9	6.9
* OR >2000	10.3	12.6	12.6	12.6	12.6	12.6	12.6	12.6
* OR >1000	14.9	17.2	17.2	17.2	17.2	17.2	17.2	17.2
* OR >600	18.4	20.7	20.7	20.7	20.7	20.7	20.7	20.7
* OR >300	18.4	20.7	20.7	20.7	20.7	20.7	20.7	20.7
* OR >150	18.4	20.7	20.7	20.7	20.7	20.7	20.7	20.7
* OR > 0	18.4	20.7	20.7	20.7	20.7	20.7	20.7	20.7
TOTAL	16	18	18	18	18	18	18	18

TOT: NUMBER OF OBS: 87 PCT FREQ NH <5/8: 79.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
6.2	18.6	20.6	14.4	19.6	7.2	4.1	1.0	8.2	.0	97

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.7	
	TOT %	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.7	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.4	.7	.4	.5	.2	.0	.4	.0	.0	.0	2.5	
	TOT %	.4	.7	.4	.5	.2	.0	.4	.0	.0	.0	2.5	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	PCP	.0	.2	.5	1.5	.7	.0	.0	.0	.0	.4	3.3	
	NO PCP	1.1	1.2	4.8	18.5	4.2	1.1	.4	.0	.0	2.2	33.3	
	TOT %	1.1	1.4	5.3	20.0	4.9	1.1	.4	.0	.0	2.5	36.6	
10+	PCP	.0	.0	.0	.4	.4	.0	.0	.0	.0	.0	.7	
	NO PCP	.0	.9	7.8	31.0	14.9	2.6	.8	.7	.0	.7	59.4	
	TOT %	.0	.9	7.8	31.3	15.2	2.6	.8	.7	.0	.7	60.1	
	TOT OBS												276
	TOT PCT	1.4	3.4	13.4	52.3	20.3	3.7	1.5	.7	.0	3.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.2	.0	.2	.0	.0	.0	.0	.0		.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.4	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.4	.2	.1	.1	.0	.2	.0	.0		1.1	
	11-21	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.4	.2	.3	.1	.0	.2	.0	.0	.0	1.3	
2<5	0-3	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	.1	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.2	.1	.3	.2	.0	.0	.0		.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.3	.2	.3	.2	.0	.0	.0	.0	.9	
5<10	0-3	.4	.0	.6	.4	.0	.0	.0	.0	.0	1.3	2.6	
	4-10	.2	.7	1.8	7.9	1.5	.6	.2	.0	.0		12.7	
	11-21	.0	.0	.5	3.3	1.4	.2	.0	.2	.0		5.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.6	.7	2.9	11.4	2.9	.7	.2	.2	.0	1.3	20.9	
10+	0-3	.0	.3	.7	1.4	1.1	.6	.0	.0	.0	1.9	5.8	
	4-10	.4	.9	7.6	28.0	12.0	2.2	1.1	.5	.0		52.7	
	11-21	.0	.0	1.8	10.2	4.9	.4	.1	.3	.0		17.7	
	22+	.0	.0	.0	.4	.1	.0	.0	.2	.0		.4	
	TOT %	.4	1.2	10.1	39.6	18.2	3.2	1.2	.9	.0	1.9	76.5	
	TOT OBS												537
	TOT PCT	1.1	2.8	13.4	51.6	21.4	4.1	1.5	1.1	.0	3.2	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	.0	3.1	6.3	12.5	.0	3.1	.0	6.3	31.3	68.8	32
06E09	.0	.0	.0	.0	.0	.0	5.0	.0	.0	.0	5.0	95.0	20
12E15	.0	.0	.0	3.8	3.8	3.8	7.7	.0	.0	.0	19.2	80.8	26
18E21	.0	.0	.0	5.9	5.9	.0	.0	.0	.0	.0	11.8	88.2	17
TOT	0	0	0	3	4	5	3	1	0	2	18	77	95
PCT	.0	.0	.0	3.2	4.2	5.3	3.2	1.1	.0	2.1	18.9	81.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.0	1.0	.0	2.0	21.4	75.5	98
06E09	.0	.6	1.7	.6	19.4	77.7	175
12E15	.0	.0	.9	.9	21.9	76.3	114
18E21	.0	.6	2.4	.6	25.6	70.7	164
TOT	0	3	8	5	122	413	551
PCT	.0	.5	1.5	.9	22.1	75.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <500YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	.0	3.3	30.0	66.7	30
06E09	.0	.0	.0	5.6	94.4	18
12E15	.0	.0	4.3	17.4	78.3	23
18E21	.0	.0	6.3	6.3	87.5	16
TOT	0	0	3	15	69	87
PCT	.0	.0	3.4	17.2	79.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	1.9	10.0	5.0	.0	33	16.4
80/84	.0	.0	.0	.0	2.0	26.9	42.3	8.5	160	79.6
75/79	.0	.0	.0	.0	.0	.0	3.0	1.0	8	4.0
TOTAL	0	0	0	0	7	74	101	19	201	100.0
PCT	.0	.0	.0	.0	3.5	36.8	50.2	9.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.5	2.5	7.6	3.2	.6	.0	.0	.0	2.0
2.0	3.1	11.9	43.2	16.0	2.7	1.6	.0	.0	2.0
.0	.0	.5	2.0	1.0	.0	.0	.5	.0	.0
2.0	3.6	14.9	49.8	20.3	3.4	1.6	.5	.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
00E03	90	87	85	82	78	74	73	81.6	147
06E09	92	89	88	83	79	77	75	83.6	211
12E15	87	86	84	82	80	78	75	82.1	178
18E21	85	84	83	82	79	77	76	81.5	273
TOT	92	88	86	82	79	77	73	82.3	909

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	.0	24.0	60.0	16.0	84	50
06E09	.0	.0	10.7	55.4	28.6	5.4	77	56
12E15	.0	.0	2.2	45.7	45.7	6.5	80	46
18E21	.0	.0	.0	19.0	68.3	12.7	84	63
TOT	0	0	7	76	110	22	81	215

AUGUST

PERIOD: (PRIMARY) 1912-1972
(OVER-ALL) 1858-1972

AREA 0005 BANGKA ISLAND NORTHWEST
.7S 105.0E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
6	.0	.0	.5	.0	1	.0	.5
5	.0	.5	.9	.4	4	.0	1.9
4	.5	.5	2.8	.0	8	.0	3.7
3	.0	1.4	3.7	.0	11	.0	5.1
2	.0	5.1	4.2	.0	20	.0	9.3
1	.0	4.7	.5	.0	11	.0	5.1
0	1.4	21.4	2.8	.0	55	.0	25.6
-1	1.4	18.1	.0	.0	42	.0	19.5
-2	3.3	13.0	.5	.0	36	.0	16.7
-3	.9	4.2	.0	.0	11	.0	5.1
-4	2.3	3.3	.5	.0	13	.0	6.0
-5	.5	.5	.0	.0	2	.0	.9
-7/-8	.5	.0	.0	.0	1	.0	.5
TOTAL	23	156	35	1	215	0	215
PCT	10.7	72.6	16.3	.4	100.0		100.0

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.1	.0	.0	.0	.0	2.1
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.5	.0	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.1	.5	.0	.0	.0	2.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.1	.0	.0	.0	.0	2.1
1-2	.0	5.7	.0	.0	.0	.0	5.7
3-4	.0	3.1	.0	.0	.0	.0	3.1
5-6	.0	.0	3.6	.0	.0	.0	3.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	10.9	3.6	.0	.0	.0	14.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	4.2	.0	.0	.0	.0	4.2
1-2	4.7	23.0	6.3	.0	.0	.0	35.4
3-4	.0	7.3	6.8	.0	.0	.0	14.1
5-6	.0	.0	2.1	.0	.0	.0	2.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.2	36.5	15.1	.0	.0	.0	55.7

PERIOD: (OVER-ALL) 1963-1972

AUGUST

TABLE 18 (CONT)

AREA 0005 BANGKA ISLAND NORTHWEST
.75 105.0E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	2.1	8.9	.0	.0	.0	.0	10.9
3-4	.0	2.1	5.2	.0	.0	.0	7.3
5-6	.0	.0	2.1	.0	.0	.0	2.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.1	10.9	7.3	.0	.0	.0	20.3

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.1	.0	.0	.0	.0	2.1
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.1	.5	.0	.0	.0	2.6

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	2.1	.0	.0	2.1	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	2.1	.0	.0	2.1	97.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.1	6.3	.0	.0	.0	.0	8.3	
1-2	6.3	43.8	6.3	.0	.0	.0	56.3	
3-4	.0	12.5	12.5	2.1	.0	.0	27.1	
5-6	.0	.0	8.3	.0	.0	.0	8.3	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.3	62.5	27.1	2.1	.0	.0	100.0	48

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	9.2	36.8	30.3	6.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	83	2
6-7	.0	2.6	3.9	3.9	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	1.3	.0	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	2
TOTAL	8	30	29	8	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	76	3
PCT	10.5	39.5	38.2	10.5	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1908-1972
(OVER-ALL) 1834-1972

AREA 0005 BANGKA ISLAND NORTHWEST
.7S 105.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	11.1	22.2	.0	.0	.0	.0	.0	33.3	.0	22.2	.0	.0	22.2		.0	22.2
NE	5.0	.0	.0	.0	.0	.0	.0	5.0	.0	10.0	.0	.0	5.0		.0	80.0
E	.0	.0	3.0	.0	.0	.0	.0	3.0	.0	.0	1.5	.0	1.5		.0	94.0
SE	3.6	.4	.0	.0	.0	.0	.0	4.0	.0	.4	2.8	.0	10.6		.0	82.5
S	2.8	2.8	.0	.0	.0	.0	.0	5.6	3.7	1.9	.0	.0	3.8		.0	86.5
SW	15.8	5.3	.0	.0	.0	.0	.0	21.1	15.8	2.6	.0	.0	.0		.0	60.5
W	14.8	.0	.0	.0	.0	.0	.0	14.8	7.4	7.4	.0	.0	.0		.0	77.8
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	28.6	.0	.0	.0		.0	71.4
TOT PCT	4.5	1.5	.4	.0	.0	.0	.0	6.3	2.2	2.6	1.5	.0	6.3		.0	81.8
TOT OBS:	269															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00E03	1.8	.0	.0	.0	.0	.0	.0	1.8	.0	1.8	.0	.0	7.0		.0	89.5
08E09	2.8	1.3	.0	.0	.0	.0	.0	5.0	3.8	.0	1.3	.0	10.0		.0	80.0
12E15	5.6	2.8	.0	.0	.0	.0	.0	8.3	2.8	4.2	2.8	.0	.0		.0	81.9
18221	5.7	1.4	1.4	.0	.0	.0	.0	8.6	1.4	8.6	1.4	.0	7.1		.0	75.7
TOT PCT	4.3	1.4	.4	.0	.0	.0	.0	6.1	2.2	3.6	1.4	.0	6.1		.0	81.4
TOT OBS:	279															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.3	1.2	.1	.0	.0	.0		1.6	6.0	.4	.0	.9	2.5	1.7	.0	2.3	2.3
NE	.6	2.2	.1	.0	.0	.0		3.0	6.3	3.4	.0	1.9	2.5	3.6	.0	5.3	1.3
E	1.5	10.0	1.9	.0	.0	.0		13.3	7.5	11.7	.0	8.3	16.5	13.6	25.0	10.1	14.3
SE	2.0	27.6	9.5	.2	.1	.0		40.2	8.5	44.9	60.0	41.3	38.6	38.3	50.0	38.7	39.9
S	2.6	18.1	3.5	.1	.0	.0		24.2	7.6	23.7	10.0	31.0	25.0	21.3	12.5	19.4	24.8
SW	1.1	5.3	1.1	.1	.0	.0		7.6	7.4	6.1	10.0	9.8	7.2	7.9	.0	7.0	6.3
W	1.1	2.0	.8	.1	.0	.0		4.0	7.3	3.8	10.0	4.0	3.0	6.6	.0	1.7	3.8
NW	.3	.6	.3	.0	.0	.0		1.2	7.4	2.3	10.0	.9	.4	1.5	.0	1.0	.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.9							4.9	.0	3.8	.0	1.9	4.2	5.5	12.5	9.6	4.7
TOT OBS	142	624	160	4	1	0	931		7.5	132	10	212	118	181	8	151	119
TOT PCT	15.3	67.0	17.2	.4	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3a

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.2	.3	.1	.0	.0		1.6	6.0	.4	1.5	1.6	2.4
NE	1.6	1.4	.0	.0	.0		3.0	6.3	3.2	2.1	3.4	3.5
E	4.1	8.8	.4	.0	.0		13.3	7.5	10.9	11.2	16.0	15.3
SE	15.1	23.8	1.1	.1	.0		40.2	8.5	46.0	40.3	36.9	39.3
S	10.3	13.7	.2	.0	.0		24.2	7.6	22.7	28.9	20.9	21.8
SW	3.8	3.4	.3	.0	.0		7.6	7.4	6.3	8.9	7.5	6.7
W	2.3	1.4	.2	.0	.0		4.0	7.3	4.2	3.6	6.3	2.6
NW	.7	.4	.1	.0	.0		1.2	7.4	2.8	.8	1.5	.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.9						4.9	.0	3.3	2.7	5.8	7.8
TOT OBS	429	478	23	1	0	931		7.5	142	330	189	270
TOT PCT	46.1	51.3	2.5	.1	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.5	11.3	66.9	18.3	.0	.0	.0	7.4	100.0	142
06&09	2.7	10.3	65.8	20.3	.3	.0	.0	8.1	100.0	330
12&15	5.8	11.1	67.2	15.9	.0	.0	.0	7.0	100.0	189
18&21	7.8	9.3	68.5	13.7	.4	.4	.0	7.1	100.0	270
TOT	46	96	624	150	4	1	0	7.5		931
PCT	4.9	10.3	67.0	17.2	.4	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.8	.0	.8		5.0
NE	.0	.0	1.6	1.6		7.0
E	1.4	2.2	3.0	2.6		5.5
SE	10.1	5.8	13.1	10.1		4.9
S	5.4	3.2	13.9	4.6		4.8
SW	.8	.0	1.4	5.2		7.1
W	.6	.4	3.2	2.6		6.7
NW	.0	.4	.0	1.4		6.8
VAR	.0	.0	.0	.0		.0
CALM	.8	.8	1.6	.8		4.8
TOT OBS	23	17	47	37	124	5.3
TOT PCT	18.5	13.7	37.9	29.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.8	.0	.0	.0	.0	0	.0	.8	
NE	.0	.0	.0	.0	.8	.8	.0	.0	.0	.0	1.6	
E	.0	.0	.0	.8	.8	.6	.0	.0	.0	.8	6.3	
SE	.8	.0	.0	3.4	3.4	1.8	.0	1.6	.0	.0	28.0	
S	.0	.0	.0	.6	4.2	.8	.0	.0	.0	.0	21.6	
SW	.0	.0	.0	.8	2.0	2.4	.0	.0	.0	.0	2.2	
W	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	5.6	
NW	.0	.0	.0	.0	.0	.2	.0	.0	.0	.8	.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	
TOT OBS	1	0	0	8	14	9	0	2	0	2	88	124
TOT PCT	.8	.0	.0	6.5	11.3	7.3	.0	1.6	.0	1.6	71.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
* OR >5000	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
* OR >3500	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
* OR >2000	7.1	10.2	10.2	10.2	10.2	10.2	10.2	10.2
* OR >1000	13.4	19.7	21.3	21.3	21.3	21.3	21.3	21.3
* OR >600	15.7	25.2	26.8	27.6	27.6	27.6	27.6	27.6
* OR >300	15.7	25.2	26.8	27.6	27.6	27.6	27.6	27.6
* OR >150	15.7	25.2	26.8	27.6	27.6	27.6	27.6	27.6
* OR > 0	16.5	26.0	27.6	28.3	28.3	28.3	28.3	28.3
TOTAL	91	93	95	96	96	96	96	96

TOTAL NUMBER OF OBS: 127 PCT FREQ NH <5/8: 71.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
11.9	20.0	20.7	11.1	8.9	3.0	6.9	4.4	11.1	.0	135

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.4	
	NO PCP	.4	.0	.0	3.0	.0	.0	.0	.0	.0	.0	3.3	
	TOT %	.4	.0	.4	3.0	.0	.0	.0	.0	.0	.0	3.7	
2<5	PCP	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	
	NO PCP	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.7	
	TOT %	.0	.0	.4	.4	.4	.0	.0	.0	.0	.0	1.1	
5<10	PCP	.2	.2	.0	1.1	.4	1.5	.7	.0	.0	.0	4.1	
	NO PCP	.0	2.4	5.0	16.3	5.1	1.7	.9	.2	.0	.7	32.3	
	TOT %	.2	2.4	5.0	17.4	5.5	3.2	1.7	.2	.0	.7	36.4	
10+	PCP	.4	.0	.0	.4	.7	.0	.0	.0	.0	.0	1.5	
	NO PCP	.7	1.1	6.7	25.2	13.4	3.9	3.3	1.0	.0	1.9	57.2	
	TOT %	1.1	1.1	6.7	25.6	14.1	3.9	3.3	1.0	.0	1.9	58.7	
	TOT OBS												269
	TOT PCT	1.7	3.7	12.5	46.3	20.0	7.1	5.0	1.2	.0	2.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.0	.2	.4	.0	.0	.0	.0	.0		.8	
	11-21	.0	.0	.0	1.3	.0	.0	.0	.0	.0		1.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.0	.2	1.7	.0	.0	.0	.0	.0	.0	2.1	
2<5	0-3	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.0	.2	.4	.4	.0	.0	.0	.0		.9	
	11-21	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.2	.8	.4	.0	.0	.0	.0	.0	1.3	
5<10	0-3	.1	.3	.6	1.1	.5	.2	.2	.1	.0	.4	3.4	
	4-10	.1	1.2	2.4	9.2	3.1	1.5	.9	.1	.0		18.5	
	11-21	.0	.0	.4	2.2	.8	.4	.2	.0	.0		4.0	
	22+	.0	.0	.0	.0	.0	.0	.2	.0	.0		.2	
	TOT %	.2	1.5	3.3	12.5	4.4	2.1	1.5	.2	.0	.4	26.0	
10+	0-3	.1	.7	.8	1.9	1.6	1.0	1.2	.2	.0	4.3	11.9	
	4-10	.9	1.1	6.9	21.4	12.7	3.4	1.2	.8	.0		48.4	
	11-21	.0	.0	1.2	4.8	2.6	.5	.6	.1	.0		10.3	
	22+	.0	.0	.6	.2	.0	.2	.0	.0	.0		.4	
	TOT %	1.0	1.8	6.9	28.3	17.1	5.1	2.9	1.1	.0	4.3	70.6	
	TOT OBS												531
	TOT PCT	1.4	3.3	12.6	43.2	21.9	7.2	4.4	1.3	.0	4.7	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH 5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	3.4	3.4	6.9	.0	.0	.0	.0	13.8	86.2	29
06&09	.0	.0	.0	3.4	24.1	6.9	.0	3.4	.0	6.9	44.8	55.2	29
12&15	.0	.0	.0	7.0	14.0	4.7	.0	.0	.0	.0	25.6	74.4	43
18&21	3.0	.0	.0	9.1	.0	9.1	.0	3.0	.0	.0	24.2	75.8	33
TOT	1	0	0	8	14	9	0	2	0	2	36	98	134
PCT	.7	.0	.0	6.0	10.4	6.7	.0	1.5	.0	1.5	26.9	73.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	4.2	1.0	19.8	75.0	96
06&09	.0	.0	2.5	1.2	28.6	67.7	161
12&15	.0	.0	.0	2.4	23.8	73.8	126
18&21	.0	.0	2.5	.6	29.7	67.1	158
TOT	0	0	12	7	142	380	541
PCT	.0	.0	2.2	1.3	26.2	70.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	3.4	10.3	86.2	29
06&09	.0	.0	7.4	40.7	51.9	27
12&15	.0	.0	9.5	16.7	73.8	42
18&21	3.4	3.4	13.8	13.8	72.4	29
TOT	1	1	11	25	91	127
PCT	.8	.8	8.7	19.7	71.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.4	.0	.0	.0	1	.4
85/89	.0	.0	.0	.0	1.8	4.0	4.4	.4	24	10.6
80/84	.0	.0	.0	.4	1.8	31.9	38.5	8.4	183	81.0
75/79	.0	.0	.0	.0	.4	.0	3.5	3.1	16	7.1
70/74	.0	.0	.0	.0	.0	.0	.9	.0	2	.9
TOTAL	0	0	0	1	10	81	107	27	226	100.0
PCT	.0	.0	.0	.4	4.4	35.8	47.3	11.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0
	.0	.2	.4	7.5	2.2	.2	.0	.0	.0	.0
	1.3	3.5	11.7	37.5	15.9	4.2	3.2	.9	.0	2.7
	.4	.4	.4	2.2	.9	1.3	1.3	.0	.0	.0
	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0
	1.8	4.2	12.6	47.2	20.4	5.8	4.5	.9	.0	2.7

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	89	88	84	82	77	77	76	81.5	144
06&09	93	91	88	84	79	76	70	83.6	320
12&15	86	85	84	82	78	76	74	81.8	186
18&21	89	84	83	82	79	77	72	81.5	269
TOT	93	89	86	82	79	76	70	82.3	919

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	2.2	.0	33.3	51.1	13.3	82	45
06&09	.0	.0	9.0	42.3	41.8	6.0	79	67
12&15	.0	.0	3.3	36.7	46.7	13.3	82	60
18&21	.0	.0	3.1	20.6	56.3	14.1	83	64
TOT	0	1	10	83	115	27	81	236

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AREA 0005 BANGKA ISLAND NORTHWEST
.7S 105.0E

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	59 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	.0	.5	1	.0	.5
7/8	.0	.0	.0	.0	.5	.0	1	.0	.5
6	.0	.0	.0	.0	.5	.5	2	.0	1.0
5	.0	.0	.0	.0	.5	.0	1	.0	.5
4	.0	.0	.0	1.0	1.4	.0	5	.0	2.4
3	.0	.0	.0	.0	1.0	.0	2	.0	1.0
2	.0	.0	.0	3.8	3.3	.0	15	.0	7.2
1	.0	.0	.0	7.2	3.3	.0	22	.0	10.5
0	.0	.0	2.4	17.7	1.0	.0	44	.0	21.1
-1	.0	.5	1.0	18.2	.5	.0	42	.0	20.1
-2	.0	.5	1.4	12.0	.0	.0	29	.0	13.9
-3	.0	.0	1.4	6.7	.0	.0	17	.5	7.7
-4	.0	.0	1.4	2.4	.0	.0	8	.0	3.8
-5	.0	.0	5.3	1.0	.3	.0	13	.0	6.2
-6	.0	.0	.5	.0	.0	.0	1	.0	.5
-7/-8	.0	.0	1.4	.5	.0	.0	4	.0	1.9
-11/-13	.5	.0	.0	.5	.0	.0	2	.0	1.0
TOTAL	1		31		25			1	208
		2		148		2	209		
PCT	.5	1.0	14.8	70.8	12.0	1.0	100.0	.5	99.5

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	1.6	.0	.0	.0	.0	1.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.6	.0	.0	.0	.0	1.6

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.6	.0	.0	.0	.0	1.6
1-2	.0	1.6	.0	.0	.0	.0	1.6
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.2	.0	.0	.0	.0	3.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	4.4	.0	.0	.0	.0	4.4
3-4	.0	1.6	.0	.0	.0	.0	1.6
5-6	.0	1.6	.0	.0	.0	.0	1.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.7	.0	.0	.0	.0	7.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	8.1	.0	.0	.0	.0	8.1
1-2	1.6	19.4	2.0	.0	.0	.0	23.0
3-4	.0	1.6	6.5	.0	.0	.0	8.1
5-6	.0	.0	4.8	.0	.0	.0	4.8
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	29.0	13.3	.0	.0	.0	44.0

PERIOD: (OVER-ALL) 1963-1972 SEPTEMBER AREA 0005 BANGKA ISLAND NORTHWEST .7S 105.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.6	3.2	.0	.0	.0	.0	4.8
1-2	.0	18.1	6.0	.0	.0	.0	24.2
3-4	.0	3.2	1.6	.0	.0	.0	4.8
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	24.6	7.7	.0	.0	.0	33.9

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	1.6	.0	.0	.0	.0	.0	1.6
3-4	.0	.0	1.6	.0	.0	.0	1.6
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	.0	1.6	.0	.0	.0	3.2

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	1.6	.0	.0	.0	1.6
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	1.6	.0	.0	.0	1.6

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.6	.0	.0	.0	.0	1.6	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.6	.0	.0	.0	.0	1.6	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	7.8	14.1	.0	.0	.0	.0	21.9	
1-2	3.1	42.2	9.4	.0	.0	.0	54.7	
3-4	.0	6.3	9.4	.0	.0	.0	15.6	
5-6	.0	3.1	4.7	.0	.0	.0	7.8	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.9	65.6	23.4	.0	.0	.0	100.0	64

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	2 -25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	17.0	32.1	15.1	6.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	75	2
6-7	.0	3.8	4.7	1.9	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	4
8-9	.0	.9	.9	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	4
10-11	.0	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	3
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	9.4	.9	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	1
TOTAL	28	41	26	10	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	106	2
PCT	26.4	38.7	22.6	9.4	1.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1908-1972
(OVER-ALL) 1854-1972

AREA 0005 BANGKA ISLAND NORTHWEST
.6S 105.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	3.7	3.7	1.8	.0	.0	.0	.0	9.2	.0	0.4	.0	.0	11.0		.0	73.4
NE	7.4	17.3	.0	.0	.0	.0	.0	24.7	.0	1.2	.0	.0	.0		.0	74.1
E	4.2	4.2	.0	.0	.0	.0	.0	8.3	2.8	5.6	.0	.0	2.8		.0	80.6
SE	1.4	7.0	.0	.0	.0	.0	.0	8.5	.0	3.5	1.4	.0	7.0		.0	79.6
S	7.7	3.9	.0	.0	.0	.0	1.9	13.5	.0	8.7	1.9	.0	3.9		.0	77.8
SW	3.8	7.6	.0	.0	.0	.0	.0	11.4	4.8	1.0	3.8	.0	.0		.0	79.0
W	5.2	1.7	.0	.0	.0	.0	.0	7.0	2.6	6.1	.0	.0	.0		.0	84.3
NW	9.0	5.4	9.0	.0	.0	.0	.0	23.4	.0	.0	.0	.0	.0		.0	76.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	5.3	.0	.0	.0	.0	.0	.0	5.3	5.3	15.8	.0	.0	15.8		.0	63.2
TOT PCT	4.9	5.5	1.0	.0	.0	.0	.3	11.7	1.3	5.2	1.0	.0	4.9		.0	77.6
TOT OBS:	308															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00E03	4.3	8.6	1.4	.0	.0	.0	.0	14.3	.0	.0	1.4	.0	4.3		.0	80.0
06E09	6.7	8.7	1.0	.0	.0	.0	1.0	17.3	1.9	7.7	.0	.0	5.8		.0	72.1
12E15	5.0	1.3	1.3	.0	.0	.0	.0	7.5	1.3	6.3	1.3	.0	2.5		.0	82.5
18E21	5.3	7.4	1.1	.0	.0	.0	.0	13.8	1.1	10.6	1.1	.0	4.3		.0	70.2
TOT PCT	5.5	6.6	1.1	.0	.0	.0	.3	13.5	1.1	6.6	.9	.0	4.3		.0	75.6
TOT OBS:	348															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.0	2.8	.3	.0	.0	.0		5.2	4.9	2.9	18.6	5.1	5.7	7.7	22.2	3.6	3.6
NE	2.0	5.6	.5	.0	.0	.0		8.1	5.8	4.5	0.3	2.8	9.3	11.1	.0	14.0	8.8
E	9.6	7.7	.3	.0	.0	.0		10.6	5.5	10.1	.0	7.6	7.3	15.3	22.2	11.1	12.4
SE	3.7	14.1	2.1	.2	.0	.0		20.0	6.6	23.2	18.8	20.7	21.1	16.6	25.0	20.7	17.6
S	3.4	12.3	1.6	.1	.0	.0		17.3	6.4	17.6	25.0	18.8	19.1	14.0	30.6	14.2	19.6
SW	1.1	7.9	1.4	.1	.0	.0		10.4	7.1	15.6	18.8	11.7	9.8	9.2	.0	6.6	9.6
W	2.4	5.3	1.9	.3	.0	.0		9.4	7.2	9.4	12.5	14.0	8.5	7.1	.0	7.9	8.0
NW	2.6	4.3	.7	.1	.0	.0		7.1	6.5	8.7	.0	7.2	10.2	4.5	.0	6.6	7.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	11.8							11.8	.0	8.0	.0	12.1	8.9	14.5	.0	14.6	12.8
TOT OBS	291	566	79	6	0	0	942		5.6	138	6	215	123	173	9	151	125
TOT PCT	30.9	60.1	8.4	.6	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.1	1.1	.0	.0	.0		5.2	4.9	3.8	5.3	8.4	3.6
NE	5.7	2.2	.2	.0	.0		8.1	5.8	4.6	5.2	10.6	12.0
E	7.7	2.9	.0	.0	.0		10.6	5.5	9.6	7.5	15.7	11.7
SE	11.9	7.7	.4	.0	.0		20.0	6.6	22.9	20.9	17.0	19.3
S	10.5	6.7	.2	.0	.0		17.3	6.4	18.0	18.9	14.8	16.7
SW	6.0	4.2	.2	.1	.0		10.4	7.1	15.8	11.0	8.8	8.0
W	5.4	3.4	.4	.2	.0		9.4	7.2	9.6	12.0	6.7	8.0
NW	4.1	2.8	.2	.0	.0		7.1	6.5	8.2	8.3	4.3	7.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	11.8						11.8	.0	7.5	10.9	13.7	13.8
TOT OBS	633	292	15	2	0	942		5.6	146	338	182	276
TOT PCT	67.2	31.0	1.6	.2	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	7.5	17.1	65.8	8.9	.7	.0	.0	6.2	100.0	146
06&09	10.9	19.5	57.7	10.7	1.2	.0	.0	5.9	100.0	338
12&15	13.7	18.7	63.7	3.8	.0	.0	.0	5.0	100.0	182
18&21	13.8	19.9	57.6	8.3	.4	.0	.0	5.3	100.0	276
TOT	111	180	566	79	6	0	0	5.6		942
PCT	11.8	19.1	60.1	8.4	.6	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.9	.0	.9	1.0		5.3
NE	.9	1.1	.9	2.1		5.2
E	3.7	3.4	1.6	5.3		4.9
SE	2.8	2.8	8.7	8.9		5.8
S	.9	1.8	5.3	6.0		6.2
SW	.0	.9	4.6	3.4		6.6
W	1.8	1.4	5.0	3.9		5.4
NW	.0	2.3	3.0	2.8		5.9
VAR	.0	.0	.0	.0		.0
CALM	.9	4.6	5.5	.0		4.6
TOT OBS	13	20	39	37	109	5.4
TOT PCT	11.9	18.3	35.8	33.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	2.5	
NE	.0	.0	.0	.9	.9	.0	.0	.0	.0	.0	3.2	
E	.0	.0	.0	3.6	.9	.0	.0	.0	.0	.0	9.6	
SE	.0	.0	.0	.2	2.8	3.9	.9	.0	.0	.0	15.4	
S	.0	.9	.0	.0	.9	.7	.9	.9	.0	.0	9.9	
SW	.0	.0	.0	.9	3.0	.0	.0	.0	.0	.0	5.0	
W	.0	.0	.0	.9	4.1	.0	.0	.0	.0	.0	7.1	
NW	.0	.0	.0	.0	1.1	.9	.9	.9	.0	.9	3.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.9	.0	.9	.0	.0	.0	.0	9.2	
TOT OBS	0	1	0	8	15	8	3	2	0	1	71	109
TOT PCT	.0	.9	.0	7.3	13.4	7.3	2.8	1.8	.0	.9	65.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.9	.9	.9	.9	.9	.9	.9	.9
* OR >5000	1.8	2.6	2.6	2.6	2.6	2.6	2.6	2.6
* OR >3500	3.5	5.3	5.3	5.3	5.3	5.3	5.3	5.3
* OR >2000	10.5	12.3	12.3	12.3	12.3	12.3	12.3	12.3
* OR >1000	18.4	24.6	25.4	27.2	27.2	27.2	27.2	27.2
* OR >600	24.6	30.7	32.5	34.2	34.2	34.2	34.2	34.2
* OR >300	24.6	30.7	32.5	34.2	34.2	34.2	34.2	34.2
* OR >150	24.6	30.7	33.3	35.1	35.1	35.1	35.1	35.1
* OR = 0	24.6	30.7	33.3	35.1	35.1	35.1	35.1	35.1
TOTAL	28	35	38	40	40	40	40	40

TOTAL NUMBER OF OBS: 114 PCT FREQ NH <5/8: 64.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
4.7	11.8	29.2	18.1	3.9	7.1	8.7	1.6	18.9	.0	127

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.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	.3	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	1.0	.0	.3	.3	.3	.0	.0	.3	.0	.6	2.9	
	TOT %	1.0	.0	.3	.6	.3	.0	.0	.3	.0	.6	3.2	
2<5	PCP	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.6	
	NO PCP	.0	.0	.3	.3	.6	.0	.0	.0	.0	.3	1.6	
	TOT %	.0	.0	.3	.3	1.3	.0	.0	.0	.0	.3	2.3	
5<10	PCP	.8	.8	.5	1.3	1.0	1.0	.6	1.8	.0	.3	8.1	
	NO PCP	4.4	2.3	5.2	9.4	6.0	2.4	3.5	3.5	.0	1.6	38.3	
	TOT %	5.2	3.1	5.7	10.7	7.0	3.4	4.1	5.3	.0	1.9	46.4	
10+	PCP	.0	.8	.5	.3	.6	.0	.0	.3	.0	.0	2.6	
	NO PCP	2.7	2.7	4.9	11.4	7.9	5.1	5.2	3.1	.0	3.2	45.3	
	TOT %	2.7	3.5	5.4	11.4	8.2	5.1	5.2	3.4	.0	3.2	48.1	
	TOT OBS												308
	TOT PCT	8.8	6.6	11.7	23.1	16.8	8.5	9.3	9.0	.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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.2	.0	.0	.2	.1	.1	.0	.0		.6	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	.0	.0	.2	.1	.1	.0	.0	.0	.6	
1<2	0-3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4	.7	
	4-10	.2	.0	.2	.2	.0	.0	.0	.0	.0		.6	
	11-21	.0	.0	.0	.2	.2	.0	.0	.2	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.6	.0	.2	.4	.2	.0	.0	.2	.0	.4	1.8	
2<5	0-3	.0	.0	.2	.0	.2	.0	.0	.0	.0	.2	.6	
	4-10	.0	.0	.2	.2	.6	.0	.0	.0	.0		.9	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.4	.2	.7	.0	.0	.0	.0	.2	1.5	
5<10	0-3	1.3	.4	.7	1.0	.6	.1	.5	1.2	.0	1.5	7.2	
	4-10	1.6	1.8	2.6	4.6	3.8	2.0	2.0	1.2	.0		19.6	
	11-21	.5	.0	.0	1.1	.6	.2	.1	.6	.0		3.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.2	.0		.2	
	TOT %	3.3	2.1	3.3	5.7	4.9	2.3	2.5	3.2	.0	1.5	29.9	
10+	0-3	.6	.6	1.7	2.4	2.4	1.2	1.8	.9	.0	9.4	21.0	
	4-10	1.9	3.9	5.7	10.1	8.3	6.0	3.4	2.3	.0		41.5	
	11-21	.0	.4	.3	.7	.7	.8	.6	.4	.0		3.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	2.4	4.8	7.7	13.3	11.4	7.8	5.8	3.6	.0	9.4	66.2	
	TOT OBS												542
	TOT PCT	6.3	7.1	11.5	20.6	17.4	10.2	8.4	7.0	.0	11.4	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 AND HGT	TOTAL OBS
00E03	.0	3.4	.0	3.4	13.8	10.3	.0	6.9	.0	.0	37.9	62.1	29
06E09	.0	.0	.0	3.4	10.3	10.3	.0	.0	.0	.0	24.1	75.9	29
12E15	.0	.0	.0	10.5	13.2	5.3	5.3	.0	.0	.0	34.2	65.8	38
18E21	.0	.0	.0	8.0	20.0	.0	4.0	.0	.0	4.0	36.0	64.0	25
TOT	0	1	0	8	17	8	3	2	0	1	40	81	121
PCT	.0	.8	.0	6.6	14.0	6.6	2.5	1.7	.0	.0	33.1	66.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.0	1.0	1.0	1.0	38.1	58.8	97
06E09	.0	.5	3.3	1.6	33.5	61.0	182
12E15	.0	.0	2.3	2.3	26.0	69.5	131
18E21	.0	.6	1.2	1.2	33.7	63.4	172
TOT	0	3	12	9	190	368	582
PCT	.0	.5	2.1	1.5	32.6	63.2	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 <500YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	3.6	7.1	32.1	60.7	28
06E09	.0	.0	8.0	20.0	72.0	25
12E15	.0	.0	13.2	21.1	65.8	38
18E21	.0	.0	17.4	26.1	56.5	23
TOT	0	1	13	28	73	114
PCT	.0	.9	11.4	24.6	64.0	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	.4	.0	.0	.0	1	.4
85/89	.0	.0	.0	.0	2.4	8.1	2.8	.4	34	13.7
80/84	.0	.0	.0	.0	.8	27.8	44.8	5.6	196	79.0
75/79	.0	.0	.0	.0	.0	.4	1.6	4.8	17	6.9
TOTAL	0	0	0	0	9	90	122	27	248	100.0
PCT	.0	.0	.0	.0	3.6	36.3	49.2	10.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
	1.6	.8	1.7	3.7	2.9	.9	.0	1.2	.0	.8
	5.7	5.7	12.0	21.0	12.0	3.6	7.8	5.9	.0	5.2
	.2	.8	.4	.4	.4	1.8	1.8	1.2	.0	.0
	7.6	7.2	14.1	25.1	15.3	6.4	9.6	8.4	.0	6.5

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	88	87	84	82	77	75	75	81.3	146
06E09	92	91	88	83	78	74	73	83.1	338
12E15	86	85	85	82	79	76	75	81.7	187
18E21	85	84	84	82	78	77	75	81.4	284
TOT	92	90	86	82	78	75	73	82.0	955

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	3.6	30.4	46.4	19.6	83	56
06E09	.0	.0	11.1	42.0	39.5	7.4	78	81
12E15	.0	.0	.0	36.5	54.0	9.5	82	63
18E21	.0	.0	.0	29.4	62.4	8.2	83	85
TOT	0	0	11	99	145	30	81	285

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TABLE 17

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PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
5	.0	.0	.0	.4	.4	2	.0	.8
4	.0	.0	.4	1.6	.0	5	.0	2.0
3	.0	.4	1.2	2.0	.0	9	.0	3.6
2	.0	.0	1.6	2.4	.4	11	.0	4.4
1	.0	.4	5.6	3.2	.0	23	.0	9.1
0	.0	.4	13.5	4.8	.0	47	.0	18.7
-1	.0	2.8	13.1	.4	.0	41	.0	16.3
-2	.0	2.4	14.7	.4	.0	44	.4	17.1
-3	.0	1.6	7.9	.8	.0	26	.4	9.9
-4	.0	5.6	3.2	.4	.0	23	.0	9.1
-5	.0	1.2	2.4	.0	.0	9	.4	3.2
-6	.0	.4	.8	.0	.0	3	.0	1.2
-7/-8	.4	2.4	.4	.0	.0	8	.0	3.2
-9/-10	.0	.0	.4	.0	.0	1	.0	.4
TOTAL	1	44	164	41	2	252	3	249
PCT	.4	17.5	65.1	16.3	.8	100.0	1.2	98.8

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TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.7	.0	.0	.0	.0	1.7
1-2	.0	3.0	.0	.0	.0	.0	3.0
3-4	.0	0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.7	.0	.0	.0	.0	4.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.7	7.6	.0	.0	.0	.0	9.3
1-2	1.7	7.6	.0	.0	.0	.0	9.3
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	7.6	.0	.0	.0	.0	9.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	3.4	3.0	.0	.0	.0	.0	6.4
1-2	.0	9.3	.0	.0	.0	.0	9.3
3-4	.0	3.4	1.7	.0	.0	.0	5.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.4	15.7	1.7	.0	.0	.0	20.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.7	2.5	.0	.0	.0	.0	4.2
1-2	.0	13.1	1.7	.0	.0	.0	14.8
3-4	.0	5.5	.0	.0	.0	.0	5.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	1.7	1.7	.0	.0	.0	3.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	22.9	3.4	.0	.0	.0	28.0

PERIOD: (OVER-ALL) 1963-1972 OCTOBER AREA 0005 BANGKA ISLAND NORTHWEST

TABLE 16 (CONT) .0S 105.0E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.7	1.3	.0	.0	.0	.0	3.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	9.3	4.7	.0	.0	.0	14.0	.0	3.8	.4	.0	.0	.0	4.2
3-4	.0	1.3	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	11.9	4.7	.0	.0	.0	18.2	.0	3.8	.4	.0	.0	.0	4.2

	W							NW						TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	1.7	.0	.0	.0	.0	1.7	1.7	.0	.0	.0	.0	.0	1.7	
1-2	1.7	2.5	.0	.0	.0	.0	4.2	.0	.4	.0	.0	.0	.0	.4	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.7	4.2	.0	.0	.0	.0	5.9	1.7	.4	.0	.0	.0	.0	2.1	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	14.8	9.8	.0	.0	.0	.0	24.6	
1-2	6.6	47.5	6.6	.0	.0	.0	60.7	
3-4	.0	9.8	1.6	.0	.0	.0	11.5	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	1.6	1.6	.0	.0	.0	3.3	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								61
TOT PCT	21.3	68.9	9.8	.0	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1972 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	7.2	44.3	5.2	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	58	2
6-7	.0	.0	3.1	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	4
8-9	.0	.0	.0	2.1	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	6
10-11	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	2
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDET	23.7	4.1	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	0
TOTAL	30	48	8	9	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	97	2
PCT	30.9	49.5	8.2	9.3	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1908-1972
(OVER-ALL) 1857-1972

AREA 0005 BANGKA ISLAND NORTHWEST
.7S 105.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	5.2	8.7	.0	.0	.0	.0	.0	13.9	.0	8.2	4.3	.0	.0	.0		75.3
NE	14.0	14.0	.0	.0	.0	.0	.0	27.9	1.2	10.5	2.3	.0	.0	.0		62.8
E	.0	11.4	.0	.0	.0	.0	.0	11.4	8.6	5.7	.0	.0	.0	.0		74.3
SE	.0	3.1	.0	.0	.0	.0	.0	3.1	.8	.0	.0	.0	3.1	.0		93.0
S	.0	2.8	.0	.0	.0	.0	.0	2.8	6.4	.0	.0	.0	.0	.0		90.8
SW	11.0	1.1	.0	.0	.0	.0	.0	12.1	.0	.0	4.4	.0	.0	.0		83.5
W	17.3	1.4	.0	.0	.0	.0	.0	18.7	7.9	.0	.0	.0	.0	.0		73.4
NW	8.1	17.2	.0	.0	.0	.0	.0	25.3	4.1	10.0	1.8	.0	.0	.0		62.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	8.0	.0	.0	.0	.0	.0	.0	8.0	4.0	.0	.0	.0	.0	.0		88.0
TOT PCT	7.4	7.4	.0	.0	.0	.0	.0	14.7	3.2	4.6	1.8	.0	.4	.0		76.8
TOT OBS:	285															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00E03	3.0	6.1	.0	.0	.0	.0	.0	9.1	3.0	.0	3.0	.0	1.5	.0		83.3
06E09	7.0	8.1	.0	.0	.0	.0	.0	15.1	7.0	2.3	.0	.0	2.3	.0		74.4
12E15	5.3	3.9	.0	.0	.0	.0	.0	9.2	1.3	7.9	1.3	.0	.0	.0		81.6
18E21	11.4	13.9	2.5	.0	.0	.0	.0	27.8	.0	8.9	2.5	.0	.0	.0		63.3
TOT PCT	6.8	8.1	.7	.0	.0	.0	.0	15.6	2.9	4.9	1.6	.0	1.0	.0		75.2
TOT OBS:	307															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.5	9.6	2.5	.1	.0	.0		14.8	7.3	12.4	30.0	9.2	17.5	19.6	16.7	20.8	8.7
NE	1.0	5.9	.6	.0	.0	.0		7.6	6.2	6.8	10.0	5.4	8.4	5.9	8.3	14.2	5.9
E	1.2	2.8	.3	.0	.0	.0		4.4	5.5	2.9	.0	3.8	5.4	7.7	16.7	3.3	2.0
SE	1.3	6.2	.6	.0	.0	.0		8.2	6.3	6.9	10.0	6.7	7.8	7.4	33.3	10.0	9.8
S	2.1	6.4	.4	.1	.0	.0		8.9	6.2	12.4	20.0	9.7	7.1	7.9	8.3	5.3	10.6
SW	2.2	10.4	.9	.3	.0	.0		13.9	6.7	22.3	.0	15.8	12.3	8.4	8.3	9.1	17.3
W	2.4	8.4	2.1	.2	.0	.0		13.0	7.3	10.9	20.0	21.6	14.2	8.4	8.3	6.8	14.2
NW	3.3	10.0	2.3	.0	.0	.0		15.6	6.8	14.6	10.0	17.8	13.1	17.0	.0	13.0	18.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	13.7							13.7	.0	11.7	.0	10.1	14.2	17.7	.0	17.5	13.4
TOT OBS	275	552	92	6	0	0	925		5.8	137	10	199	134	175	6	137	127
TOT PCT	29.7	59.7	9.9	.6	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)							HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	8.6	5.4	.8	.0	.0		14.8	7.3	13.6	12.5	19.5	15.0
NE	5.1	2.5	.0	.0	.0		7.6	6.2	7.0	6.6	5.9	10.2
E	3.2	1.1	.1	.0	.0		4.4	5.5	2.7	4.4	8.0	2.7
SE	5.1	3.1	.1	.0	.0		8.2	6.3	7.1	7.1	8.3	9.9
S	5.6	3.1	.2	.0	.0		8.9	6.2	12.9	8.6	7.9	7.9
SW	8.6	4.6	.7	.0	.0		13.9	6.7	20.7	14.4	8.4	13.1
W	6.7	5.8	.5	.0	.0		13.0	7.3	10.7	18.6	8.4	10.3
NW	8.8	6.5	.3	.0	.0		15.6	6.8	14.3	15.9	16.4	15.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	13.7						13.7	.0	10.9	11.7	17.1	15.5
TOT OBS	604	297	24	0	0	925		5.8	147	333	181	264
TOT PCT	65.3	32.1	2.6	.0	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1908-1972
(OVER-ALL) 1857-1972

AREA 0003 BANGKA ISLAND NORTHWEST
.7S 105.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	10.9	14.3	66.0	8.2	.7	.0	.0	6.0	100.0	147
06&09	11.7	18.0	58.9	10.5	.9	.0	.0	5.8	100.0	333
12&15	17.1	20.4	53.6	8.8	.0	.0	.0	5.2	100.0	181
18&21	15.5	11.4	61.4	11.0	.8	.0	.0	6.0	100.0	264
TOT	127	148	552	92	6	0	0	5.8		925
PCT	13.7	16.0	59.7	9.9	.6	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.3	4.3	8.1	8.5		6.0
NE	.2	2.1	2.7	1.2		5.9
E	.8	.8	.8	.6		4.5
SE	.0	1.9	3.1	.8		5.2
S	.0	2.3	2.3	3.7		6.2
SW	.8	.0	2.7	3.7		6.7
W	.0	3.7	6.4	.8		5.4
NW	.8	3.9	5.2	5.4		5.8
VAR	.0	.0	.0	.0		.0
CALM	3.3	3.3	5.0	2.5		4.8
TOT OBS	10	27	51	33	121	5.7
TOT PCT	8.3	22.3	42.1	27.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.4	.0	.0	1.2	7.2	2.9	.6	.0	.0	.8	9.9	
NE	.4	.0	.8	.2	.8	.2	.0	.0	.0	.0	3.7	
E	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	2.3	
SE	.0	.0	.0	.0	1.7	.4	.0	.0	.0	.0	3.7	
S	.0	.0	.6	.8	1.4	1.2	.0	.0	.0	.0	10.1	
SW	.8	.0	.2	.0	1.9	1.7	.0	.8	.0	.0	1.9	
W	.8	.0	.0	.6	1.7	.0	.0	.6	.0	.0	7.2	
NW	.0	.0	.0	1.2	1.0	1.0	.2	.2	.0	.8	10.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	1.7	.0	.0	.0	.0	.0	12.4	
TOT OBS	3	0	2	5	22	9	1	2	0	2	75	121
TOT PCT	2.5	.0	1.7	4.1	18.2	7.4	.8	1.7	.0	1.7	62.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >500YD	* OR >0
* OR >6500	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
* OR >5000	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
* OR >3500	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
* OR >2000	10.4	12.0	12.0	12.0	12.0	12.0	12.0	12.0
* OR >1000	25.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6
* OR >600	28.0	33.6	33.6	33.6	33.6	33.6	33.6	33.6
* OR >300	28.0	34.4	35.2	35.2	35.2	35.2	35.2	35.2
* OR >150	28.0	34.4	35.2	35.2	35.2	35.2	35.2	35.2
* OR > 0	28.8	36.8	37.6	37.6	37.6	37.6	37.6	37.6
TOTAL	36	46	47	47	47	47	47	47

TOTAL NUMBER OF OBS: 125 PCT FREQ NH <5/8: 62.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
.7	13.3	22.2	14.8	12.6	11.9	8.1	8.1	8.1 .0	135

NOVEMBER

PERIOD: (PRIMARY) 1908-1972
(OVER-ALL) 1857-1972

AREA 0005 BANGKA ISLAND NORTHWEST
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TABLE A

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	NO PCP	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	
	PCP	.4	.0	.0	.0	.3	.1	.0	.0	.0	.0	.7	
2<5	NO PCP	.0	.0	.0	.4	.0	.5	.5	.0	.0	.0	1.4	
	TOT %	.4	.0	.0	.4	.3	.6	.5	.0	.0	.0	2.1	
	PCP	1.9	1.6	.4	.0	.0	.5	1.9	3.9	.0	.4	10.5	
5<10	NO PCP	7.4	1.8	.7	4.6	2.0	3.2	2.9	5.4	.0	2.1	30.2	
	TOT %	9.3	3.4	1.1	4.6	2.0	3.8	4.8	9.3	.0	2.5	40.7	
	PCP	.5	.9	.0	.4	.0	.4	.4	1.1	.0	.4	3.5	
10+	NO PCP	10.1	3.6	2.0	5.6	7.3	3.2	6.5	9.0	.0	6.0	53.3	
	TOT %	10.6	4.1	2.0	6.0	7.3	3.6	6.8	10.1	.0	6.3	56.8	
	TOT OBS												285
	TOT PCT	20.3	7.5	3.1	11.2	9.6	8.0	12.2	19.4	.0	8.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	0-3	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
1<2	4-10	.0	.0	.0	.2	.0	.4	.0	.2	.0		.8	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.2	.0	.6	.0	.2	.0	.0	.9	
	0-3	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	.4	
2<5	4-10	.2	.0	.0	.2	.1	.2	.2	.0	.0		.9	
	11-21	.0	.0	.0	.1	.1	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.0	.0	.3	.2	.3	.3	.0	.0	.2	1.5	
	0-3	.9	.0	.0	.2	.6	.2	.2	.8	.0	1.7	4.3	
5<10	4-10	3.0	1.4	.5	2.4	1.1	1.9	2.2	3.0	.0		15.4	
	11-21	1.6	.6	.2	.2	.0	.1	1.0	1.7	.0		5.3	
	22+	.0	.0	.0	.0	.1	*	.0	.0	.0		.2	
	TOT %	5.5	1.9	.7	2.8	1.8	2.2	3.3	5.5	.0	1.7	25.4	
	0-3	1.8	.9	.8	.9	1.5	.8	1.1	2.8	.0	14.5	25.2	
10+	4-10	6.9	3.9	1.6	3.8	5.3	6.3	5.9	8.0	.0		41.6	
	11-21	1.6	.2	.0	.6	.4	.4	.6	1.1	.0		4.9	
	22+	.2	.0	.0	.0	.0	.0	.0	.0	.0		.2	
	TOT %	10.5	5.0	2.5	5.3	7.2	7.4	7.6	11.9	.0	14.5	71.9	
	TOT OBS												931
	TOT PCT	16.1	7.0	3.2	8.6	9.3	10.5	11.3	17.6	.0	16.6	100.0	

PERIOD: (PRIMARY) 1908-1972
(OVER-ALL) 1857-1972

AREA 0005 BANGKA ISLAND NORTHWEST
.75 105.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	2.9	.0	2.9	2.9	17.1	11.4	.0	5.7	.0	.0	42.9	57.1	35
06E09	3.0	.0	.0	9.1	18.2	.0	3.0	3.0	.0	.0	36.4	63.6	33
12E15	2.2	.0	.0	2.2	13.0	6.5	.0	.0	.0	2.2	26.1	73.9	46
18E21	.0	.0	5.3	.0	21.1	10.5	.0	.0	.0	5.3	42.1	57.9	19
TOT	3	0	2	5	22	9	1	3	0	2	47	86	133
PCT	2.3	.0	1.5	3.8	16.5	6.8	.8	2.3	.0	1.5	35.3	64.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.0	.0	3.0	2.0	26.3	68.7	99
06E09	.0	.6	2.3	.0	21.4	75.7	173
12E15	.0	.0	.0	1.6	22.8	75.6	123
18E21	.0	.0	.0	2.5	35.4	62.0	158
TOT	0	1	7	8	147	390	553
PCT	.0	.2	1.3	1.4	26.6	70.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	2.9	5.9	8.8	35.3	55.9	34
06E09	3.1	3.1	12.5	25.0	62.5	32
12E15	2.4	2.4	4.8	23.8	71.4	42
18E21	.0	5.9	5.9	41.2	52.9	17
TOT	3	5	10	37	78	125
PCT	2.4	4.0	8.0	29.6	62.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.4	.0	.0	.0	1	.4
85/89	.0	.0	.0	.0	2.2	1.3	1.3	.9	13	5.7
80/84	.0	.0	.0	.0	.4	27.4	40.9	6.5	173	75.2
75/79	.0	.0	.0	.0	.0	1.3	7.8	9.6	43	18.7
TOTAL	0	0	0	0	7	69	115	39	230	100.0
PCT	.0	.0	.0	.0	3.0	30.0	50.0	17.0		

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	.4	.0	.0
1.3	1.3	.0	1.3	.4	.0	.4	.7	.0	.0
16.3	4.6	2.0	9.7	7.9	3.7	7.2	15.2	.0	8.7
3.0	.5	.8	.5	1.1	3.4	4.0	4.5	.0	.9
20.9	6.4	2.7	11.5	9.5	7.1	11.6	20.8	.0	9.6

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	88	87	84	81	77	75	75	80.8	145
06E09	90	89	86	82	79	76	75	82.5	342
12E15	89	86	85	82	79	78	76	81.8	184
18E21	88	85	84	81	78	76	74	81.1	267
TOT	90	88	85	82	78	76	74	81.7	938

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	1.9	30.2	49.1	18.9	83	53
06E09	.0	.0	5.9	35.3	44.1	14.7	81	68
12E15	.0	.0	1.7	27.1	37.6	13.6	83	59
18E21	.0	.0	1.5	23.5	54.4	20.6	84	68
TOT	0	0	7	72	127	42	83	248

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PERIOD: (PRIMARY) 1908-1972
(OVER-ALL) 1857-1972

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.75 105.0E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.4	1	.0	.4
6	.0	.0	.0	.4	.4	2	.0	.8
5	.0	.0	.0	.4	.0	1	.0	.4
2	.0	.0	2.1	.4	.0	6	.4	2.1
1	.0	.4	3.7	.4	.0	11	.0	4.6
0	.0	1.2	15.8	1.2	.0	44	.4	17.8
-1	.0	2.9	15.4	1.7	.0	48	.4	19.5
-2	.0	2.1	17.0	.4	.0	47	.0	19.5
-3	.0	4.1	7.9	.0	.0	29	.4	11.6
-4	.4	4.6	5.0	.0	.0	24	.0	10.0
-5	.0	3.7	2.5	.0	.0	15	.0	6.2
-6	.4	2.5	.0	.0	.0	7	.4	2.5
-7/-8	.0	1.2	.4	.0	.0	4	.0	1.7
-9/-10	.8	.0	.0	.0	.0	2	.0	.8
TOTAL	4	55	168	12	2	241	5	236
PCT	1.7	22.8	69.7	5.0	.8	100.0	2.1	97.9

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.1	4.2	.0	.0	.0	.0	6.3
1-2	.0	4.2	.0	.0	.0	.0	4.2
3-4	.0	1.6	2.1	.0	.0	.0	3.6
5-6	.0	.0	7.8	.0	.0	.0	7.8
7	.0	.0	5.7	2.1	.0	.0	7.8
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.1	9.9	15.6	2.1	.0	.0	29.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	4.2	.0	.0	.0	.0	4.2
1-2	.0	.0	2.1	.0	.0	.0	2.1
3-4	.0	.5	.0	.0	.0	.0	.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.5	2.1	.0	.0	.0	2.6
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.2	4.2	.0	.0	.0	9.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	1.6	.0	.0	.0	.0	1.6
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.6	.0	.0	.0	.0	1.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	4.2	.0	.0	.0	.0	4.2
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	2.1	.0	.0	.0	.0	2.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.3	.0	.0	.0	.0	6.3

PERIOD: (OVER-ALL) 1963-1972 NOVEMBER AREA 0005 BANGKA ISLAND NORTHWEST .7S 105.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.1	.0	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	9.9	.0	.0	.0	.0	9.9	.0	2.6	.0	.0	.0	.0	2.6
3-4	.0	.0	.0	.0	.0	.0	.0	.0	2.1	.0	.0	.0	.0	2.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	12.0	.0	.0	.0	.0	12.0	.0	4.7	.0	.0	.0	.0	4.7

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	2.1	.0	.0	.0	.0	2.1	
1-2	.0	3.1	.0	.0	.0	.0	3.1	.0	5.2	2.1	.0	.0	.0	7.3	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	2.1	.0	.0	.0	.0	2.1	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	.0	.0	.0	2.6	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	3.1	.0	.0	.0	.0	3.1	.0	9.4	5.2	.0	.0	.0	14.6	81.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	20.4	18.4	.0	.0	.0	.0	38.8	
1-2	.0	24.5	4.1	.0	.0	.0	28.6	
3-4	.0	8.2	2.0	.0	.0	.0	10.2	
5-6	.0	.0	10.2	.0	.0	.0	10.2	
7	.0	2.0	8.2	2.0	.0	.0	12.2	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	20.4	53.1	24.5	2.0	.0	.0	100.0	49

PERIOD: (OVER-ALL) 1969-1972

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	14.3	25.7	7.6	4.8	5.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	61	2
6-7	.0	1.9	3.8	6.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	4
8-9	.0	1.0	1.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	4
10-11	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	3
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	18.1	2.9	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	1
TOTAL	34	33	19	12	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	105	2
PCT	32.4	31.4	18.1	11.4	5.7	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1910-1972
(OVER-ALL) 1856-1972

AREA 0005 BANGKA ISLAND NORTHWEST
.7S 104.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
N	4.7	5.3	1.2	.0	.0	.0	.0	11.2	1.2	1.2	1.2	.0	.0	.0	.0	85.3
NE	9.5	.0	.0	.0	.0	.0	.0	9.5	3.2	.0	.0	.0	.0	.0	.0	87.3
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.0	6.9	.0	.0	.0	.0	.0	6.9	.0	.0	6.9	.0	.0	.0	.0	86.2
S	.0	8.3	.0	.0	.0	.0	.0	8.3	8.3	.0	20.8	.0	.0	.0	.0	62.5
SW	23.1	7.7	3.8	.0	.0	.0	.0	34.6	.0	.0	15.4	.0	.0	.0	.0	50.0
W	12.1	12.1	4.7	.0	.0	.0	.0	28.9	8.1	.0	.0	.0	.0	.0	.0	63.1
NW	3.2	11.3	3.2	.0	.0	.0	.0	17.8	1.6	4.9	.0	.0	.0	.0	.0	77.3
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	.0	10.0	.0	.0	.0	.0	.0	90.0
TOT PCT	5.8	6.9	1.9	.0	.0	.0	.0	14.7	2.7	1.9	1.9	.0	.0	.0	.0	79.2
TOT OBS:	259															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
00&03	9.4	9.4	3.8	.0	.0	.0	.0	22.6	3.8	1.9	1.9	.0	.0	.0	.0	69.8
06&09	5.1	9.2	1.0	.0	.0	.0	.0	15.3	3.1	.0	1.0	.0	.0	.0	.0	80.6
12&15	1.8	1.8	1.8	.0	.0	.0	.0	5.3	.0	3.5	1.8	.0	.0	.0	.0	89.5
18&21	6.4	6.4	1.3	.0	.0	.0	.0	14.1	2.6	2.6	3.8	.0	.0	.0	.0	78.2
TOT PCT	5.6	7.0	1.7	.0	.0	.0	.0	14.9	2.4	1.7	2.1	.0	.0	.0	.0	79.7
TOT OBS:	286															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.3	15.2	10.4	1.0	.0	.0		28.9	10.1	25.7	20.0	21.3	33.3	37.3	66.7	37.6	23.3
NE	1.0	6.5	3.0	.2	.0	.0		10.8	8.9	8.2	10.0	11.1	10.6	12.3	33.3	11.0	10.5
E	.4	1.3	.1	.0	.0	.0		1.8	5.7	1.1	.0	1.6	2.5	3.2	.0	.9	1.9
SE	1.2	1.2	.1	.0	.0	.0		2.4	4.2	4.3	.0	2.4	2.0	1.8	.0	1.4	2.9
S	1.6	1.4	.3	.0	.0	.0		3.3	5.0	6.8	.0	3.4	2.5	1.8	.0	2.3	2.9
SW	1.9	3.1	.7	.3	.0	.0		6.0	7.4	4.5	.0	8.2	3.0	4.1	.0	5.0	10.0
W	2.5	10.1	2.0	.5	.0	.0		15.1	7.8	20.5	60.0	13.6	12.6	10.7	.0	13.8	18.6
NW	2.8	17.6	9.7	.3	.0	.0		28.4	8.4	24.3	10.0	31.5	28.3	27.0	.0	19.0	26.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.3							5.3	.0	4.5	.0	6.9	5.1	1.8	.0	9.2	3.8
TOT OBS	139	411	162	18	0	0	730		8.1	110	5	189	99	110	3	109	105
TOT PCT	19.0	56.3	22.2	2.5	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	9.8	14.1	4.8	.1	.0		28.9	10.1	25.4	25.4	38.1	30.5
NE	4.4	5.2	1.1	.0	.0		10.8	8.9	8.3	10.9	12.8	10.7
E	1.2	.6	.0	.0	.0		1.8	5.7	1.1	1.9	3.1	1.4
SE	2.1	.3	.0	.0	.0		2.4	4.2	4.1	2.3	1.8	2.1
S	2.5	.7	.1	.0	.0		3.3	5.0	6.5	3.1	1.8	2.6
SW	3.8	1.4	.6	.2	.0		6.0	7.4	4.3	6.4	4.0	7.5
W	6.0	5.7	1.1	.3	.0		15.1	7.8	22.2	12.3	10.4	16.1
NW	10.3	14.6	1.5	.1	.0		26.4	8.4	23.7	30.4	26.3	22.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.3						5.3	.0	4.3	6.3	1.8	6.5
TOT OBS	366	312	67	5	0	730		8.1	115	288	113	214
TOT PCT	47.4	42.7	9.2	.7	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1910-1972
(OVER-ALL) 1856-1972

AREA 0005 BANGKA ISLAND NORTHWEST
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	4.3	15.7	59.1	19.1	1.7	.0	.0	7.6	100.0	115
06&09	6.3	14.9	58.3	18.8	1.7	.0	.0	7.6	100.0	288
12&15	1.8	16.8	54.0	23.9	3.5	.0	.0	8.6	100.0	113
18&21	6.5	9.3	53.3	27.6	3.3	.0	.0	8.6	100.0	214
TOT	39	100	411	162	18	0	0	8.1		730
PCT	5.3	13.7	56.3	22.2	2.5	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND D.R	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.0	9.8	14.7	7.0		5.8
NE	1.0	1.8	7.5	6.2		6.1
E	.0	1.0	1.0	.8		5.8
SE	.0	.0	1.0	.3		7.2
S	.0	.0	1.0	.0		7.0
SW	.0	.0	.0	1.5		8.0
W	.8	1.8	2.6	7.5		6.6
NW	1.3	4.1	8.2	11.9		6.3
VAR	.0	.0	.0	.0		.0
CALM	1.0	4.1	.0	1.0		3.8
TOT OBS	5	22	35	35	97	6.0
TOT PCT	5.2	22.7	36.1	36.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND D.R	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	1.0	5.9	.0	1.8	.0	.0	.0	23.7	
NE	.0	1.0	.0	.0	4.1	.0	.0	.0	.0	.0	11.3	
E	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	2.1	
SE	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	1.0	
S	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	
SW	.0	.0	1.0	.3	.3	.0	.0	.0	.0	.0	.0	
W	.0	.0	.0	2.8	4.4	1.0	.0	.0	.0	.0	4.4	
NW	.0	.0	1.0	4.1	3.9	3.1	2.3	.0	.0	.0	11.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	5.2	
TOT OBS	0	1	2	8	19	5	4	1	0	0	57	97
TOT PCT	.0	1.0	2.1	8.2	19.6	5.2	4.1	1.0	.0	.0	58.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
* OR >3500	2.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
* OR >2000	7.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
* OR >1000	22.0	28.0	30.0	30.0	30.0	30.0	30.0	30.0
* OR >600	28.0	36.0	38.0	38.0	38.0	38.0	38.0	38.0
* OR >300	28.0	38.0	40.0	40.0	40.0	40.0	40.0	40.0
* OR >150	29.0	39.0	41.0	41.0	41.0	41.0	41.0	41.0
* OR > 0	29.0	39.0	41.0	41.0	41.0	41.0	41.0	41.0
TOTAL	29	39	41	41	41	41	41	41

TOTAL NUMBER OF OBS: 100 PCT FREQ NH <5/8: 59.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
.9	7.4	20.4	15.7	15.7	7.4	6.5	6.5	19.4	.0	108

PERIOD: (PRIMARY) 1910-1972
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.8	.0	.0	.0	.0	.0	.0	.2	.0	.0	.8	
	TOT %	.8	.0	.0	.0	.0	.0	.0	.2	.0	.0	.8	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.8	.4	.0	.0	1.2	
	NO PCP	.0	.8	.0	.0	.0	.0	.4	.8	.0	.0	1.9	
	TOT %	.0	.8	.0	.0	.0	.0	1.2	1.2	.0	.0	3.1	
5<10	PCP	3.1	.0	.0	.0	.2	.7	2.0	3.3	.0	.0	9.3	
	NO PCP	11.9	2.4	1.2	1.0	2.7	1.5	4.2	6.8	.0	1.5	33.2	
	TOT %	15.0	2.4	1.2	1.0	2.9	2.2	6.3	10.0	.0	1.5	42.5	
10+	PCP	.6	1.2	.0	.2	.2	.2	1.4	.6	.0	.0	4.2	
	NO PCP	16.7	7.8	1.8	1.6	1.5	.1	5.6	11.9	.0	2.3	49.4	
	TOT %	17.3	9.0	1.8	1.8	1.7	.3	6.9	12.5	.0	2.3	53.7	
	TOT OBS												259
	TOT PCT	32.8	12.2	3.0	2.8	4.6	2.5	14.4	23.8	.0	3.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.3	.0	.0	.0	.0	.0	.0	.1	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.4	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.1	.0	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	
2<5	0-3	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	.4	
	4-10	.2	.2	.0	.0	.0	.0	.4	.7	.0		1.5	
	11-21	.0	.4	.0	.0	.1	.1	.4	.0	.0		1.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.7	.0	.0	.1	.1	1.1	.7	.0	.2	3.1	
5<10	0-3	.9	.0	.2	.0	.7	.2	.3	.5	.0	1.1	3.9	
	4-10	5.5	.6	.4	.8	1.0	1.0	3.1	3.6	.0		16.0	
	11-21	2.7	1.1	.1	.0	.0	.1	.7	2.3	.0		7.0	
	22+	.0	.2	.0	.0	.0	.1	.1	.2	.0		.7	
	TOT %	9.1	1.9	.8	.8	1.8	1.4	4.2	6.7	.0	1.1	27.8	
10+	0-3	1.5	1.1	.4	.8	1.3	.9	1.8	2.0	.0	2.8	12.8	
	4-10	12.2	6.9	1.0	.4	.4	1.6	6.1	14.2	.0		42.7	
	11-21	6.3	2.6	.1	.1	.1	.4	1.1	2.5	.0		13.1	
	22+	.4	.0	.0	.0	.0	.0	.0	.0	.0		.4	
	TOT %	20.3	10.6	1.5	1.4	1.9	2.7	8.8	18.7	.0	2.8	68.7	
	TOT OBS												457
	TOT PCT	30.1	13.2	2.4	2.1	3.6	4.2	14.1	26.1	.0	4.2	100.0	

PERIOD: (PRIMARY) 1910-1972
(OVER-ALL) 1856-1972

TABLE 10

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PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	3.7	11.1	18.5	.0	3.7	3.7	.0	.0	40.7	59.3	27
06E09	.0	.0	.0	8.6	22.9	8.6	5.7	.0	.0	.0	45.7	54.3	35
12E15	.0	3.7	3.7	3.7	22.2	3.7	.0	.0	.0	.0	37.0	63.0	27
18E21	.0	.0	.0	5.9	5.9	5.9	5.9	.0	.0	.0	23.5	76.5	17
TOT	0	1	2	8	20	5	4	1	0	0	41	65	106
PCT	.0	.9	1.9	7.5	18.9	4.7	3.8	.9	.0	.0	38.7	61.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.0	.0	.0	3.5	27.9	68.6	86
06E09	.0	.6	.0	3.5	27.7	68.2	173
12E15	.0	.0	.0	1.2	28.9	69.9	83
18E21	.0	.7	.7	2.8	35.2	60.6	142
TOT	0	2	1	14	146	321	484
PCT	.0	.4	.2	2.9	30.2	66.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	3.8	19.2	23.1	57.7	26
06E09	.0	.0	8.8	38.2	52.9	34
12E15	.0	7.7	15.4	23.1	61.5	26
18E21	.0	.0	7.1	21.4	71.4	14
TOT	0	3	13	28	59	100
PCT	.0	3.0	13.0	28.0	59.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.0	4.9	1.0	.5	13	6.4
80/84	.0	.0	.0	.0	.0	16.2	46.6	12.7	154	75.5
75/79	.0	.0	.0	.0	.0	.5	8.3	9.3	37	18.1
TOTAL	0	0	0	0	0	44	114	46	204	100.0
PCT	.0	.0	.0	.0	.0	21.6	55.9	22.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	2.2	1.0	.5	.0	.0	.0	.0	2.2	.0	.5
	25.2	7.4	2.0	2.2	4.4	2.3	8.6	19.0	.0	4.4
	4.2	2.7	.0	1.2	.5	.9	4.3	4.4	.0	.0
	31.6	11.0	2.5	3.4	4.9	3.2	12.9	25.6	.0	4.9

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	86	84	83	80	76	74	74	79.8	118
06E09	91	89	86	82	77	73	72	81.8	287
12E15	87	86	84	81	77	75	75	81.0	118
18E21	84	83	82	80	77	74	74	80.2	214
TOT	91	87	85	81	77	74	72	80.9	737

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	.0	10.3	56.4	33.3	87	39
06E09	.0	.0	.0	30.8	48.7	20.5	83	78
12E15	.0	.0	2.0	16.3	57.1	24.5	85	49
18E21	.0	.0	.0	13.8	60.0	26.2	86	65
TOT	0	0	1	45	127	58	85	231

DECEMBER

PERIOD: (PRIMARY) 1910-1972
(OVER-ALL) 1856-1972

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	R FOG	WJ FOG
11/13	.0	.0	.5	.0	.0	1	.0	.5
7/8	.0	.0	.9	.9	.0	3	.0	1.4
5	.0	.0	.5	1.4	.0	4	.0	1.8
4	.0	.0	.5	.9	.5	4	.5	1.4
3	.0	.0	.9	1.4	.0	5	.0	2.3
2	.0	.9	3.6	.9	.0	12	.0	5.4
1	.0	.5	6.8	.0	.0	16	.5	6.6
0	.0	3.6	10.4	1.4	.0	34	.0	15.4
-1	.0	7.7	12.7	.9	.0	47	1.4	19.9
-2	.0	8.6	8.1	.0	.0	37	.0	16.7
-3	.5	5.4	3.6	.0	.0	21	.0	9.5
-4	.5	6.8	.9	.0	.0	18	.0	8.1
-5	.9	2.3	1.8	.0	.0	11	.0	5.0
-6	.5	.5	.0	.0	.0	2	.0	.9
-7/-8	.5	1.4	.9	.0	.0	6	.0	2.7
TOTAL	6	83	115	16	1	221	5	216
PCT	2.7	37.6	52.0	7.2	.5	100.0	2.3	97.7

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	4.7	.0	.0	.0	.0	.0	4.7
1-2	.0	11.6	13.4	.0	.0	.0	25.0
3-4	.0	.0	8.1	.0	.0	.0	8.1
5-6	.0	.0	2.3	.0	.0	.0	2.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.7	11.6	23.8	.0	.0	.0	40.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.3	.0	.0	.0	.0	2.3
1-2	.0	2.3	4.7	.0	.0	.0	7.0
3-4	.0	2.3	5.2	.0	.0	.0	7.6
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.0	9.9	.0	.0	.0	16.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	4.7	.0	.0	.0	.0	4.7
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.7	.0	.0	.0	.0	4.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	2.3	.0	.0	.0	.0	.0	2.3
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.3	.0	.0	.0	.0	.0	2.3

PERIOD: (OVER-ALL) 1963-1972 DECEMBER AREA 0005 BANGKA ISLAND NORTHWEST

TABLE 18 (CONT) .7S 104.9E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.6	.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	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.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	.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	1.2	.0	.0	.0	3.5

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	.0	.0	.0	2.3	
1-2	.0	.0	1.7	.0	.0	.0	1.7	.0	7.0	.6	.0	.0	.0	7.6	
3-4	.0	.0	4.1	.0	.0	.0	4.1	.0	2.3	5.8	.0	.0	.0	8.1	
5-6	.0	.0	1.7	.0	.0	.0	1.7	.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	7.6	.0	.0	.0	7.6	.0	11.6	6.4	.0	.0	.0	18.0	93.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	17.4	8.7	.0	.0	.0	.0	26.1	
1-2	2.2	21.7	19.6	.0	.0	.0	43.5	
3-4	.0	4.3	21.7	.0	.0	.0	26.1	
5-6	.0	.0	4.3	.0	.0	.0	4.3	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	19.6	34.8	45.7	.0	.0	.0	100.0	46

PERIOD: (OVER-ALL) 1949-1972 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	6.3	32.5	21.3	1.3	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	50	2
6-7	.0	2.5	5.0	6.3	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	4
8-9	.0	1.3	.0	2.5	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	5
10-11	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	11.3	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	1
TOTAL	14	32	21	9	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	80	3
PCT	17.5	40.0	26.3	11.3	1.3	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

ANNUAL

PERIOD: (PRIMARY) 1908-1973
(OVER-ALL) 1854-1973

AREA 0005 BANGKA ISLAND NORTHWEST
.7S 105.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	3.9	8.0	.5	.0	.0	.0	.0	12.4	.4	5.1	6.9	.0	4.9		.0	70.5
NE	5.7	5.5	.1	.0	.0	.0	.2	11.5	1.6	5.2	3.8	.0	2.2		.0	76.2
E	3.6	2.5	.5	.0	.0	.0	.0	6.6	.9	3.2	2.2	.0	1.3		.0	86.1
SE	1.8	2.3	.4	.0	.0	.0	.0	4.5	.6	2.0	1.6	.0	2.1		.0	89.4
S	3.4	7.8	.1	.0	.0	.0	.2	11.5	2.3	1.6	3.2	.0	.8		.1	81.1
SW	8.3	6.6	.3	.0	.0	.0	.2	15.5	4.3	4.4	2.8	.0	.0		.0	73.0
W	13.6	3.4	1.0	.0	.0	.0	.2	18.1	5.6	3.6	.9	.0	2.0		.0	70.7
NW	5.1	5.7	1.2	.0	.0	.0	.0	11.9	1.2	4.6	1.3	.0	.4		.0	81.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	3.5	3.5	.0	.0	.0	.0	.0	7.1	1.4	10.8	.0	.0	1.3		.0	79.9
TOT PCT	4.1	4.5	.5	.0	.0	.0	.1	9.2	1.7	3.1	2.2	.0	1.4		*	82.8
TOT OBS:	3615															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00E03	4.9	5.6	.6	.0	.0	.0	.0	11.1	1.9	.5	1.8	.0	1.2		.1	83.6
06E09	4.7	7.0	.4	.0	.0	.0	.1	12.1	1.9	1.1	2.3	.0	2.1		.0	81.1
12E15	3.2	2.4	.6	.0	.0	.0	.1	6.3	1.0	4.0	2.4	.0	.5		.0	86.3
18E21	5.0	4.8	.8	.0	.0	.0	.1	10.7	1.6	7.6	3.4	.0	1.8		.0	75.8
TOT PCT	4.5	5.1	.6	.0	.0	.0	.1	10.2	1.6	3.4	2.5	.0	1.4		*	81.3
TOT OBS:	3895															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.8	9.5	3.9	.2	*	.0		15.4	6.7	13.2	17.2	13.6	16.8	18.4	21.3	16.9	13.5
NE	1.5	6.5	1.4	.1	.0	.0		9.6	6.6	7.8	5.8	8.9	9.7	11.3	12.0	12.8	9.5
E	1.6	6.2	.7	*	.0	.0		8.8	6.1	7.2	4.1	6.3	7.4	10.7	17.5	10.5	9.0
SE	2.3	14.6	9.7	.1	*	.0		20.6	6.3	23.6	22.9	20.3	19.3	19.6	24.1	20.2	20.7
S	2.2	9.4	1.9	*	*	.0		13.5	6.5	15.2	15.1	15.6	14.1	11.0	10.6	11.0	14.3
SW	1.3	4.7	.8	.1	*	.0		6.9	6.8	8.7	10.6	8.4	6.1	5.2	3.6	5.3	7.6
W	1.3	4.1	.9	.1	*	.0		6.5	7.5	7.4	10.5	9.0	6.0	4.7	2.9	4.6	6.4
NW	1.7	6.9	1.9	.1	*	.0		10.6	7.0	10.7	9.2	12.5	12.5	9.7	5.3	8.3	9.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.2							8.2	.0	6.1	4.6	7.4	7.1	9.4	2.7	10.4	9.4
TOT OBS							11391		6.9	1712	102	2450	1565	2027	101	1848	1566
TOT PCT	22.0	61.9	15.3	.7	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	6.4	7.8	1.3	*	.0		15.4	6.7	13.4	14.9	18.5	15.3
NE	5.0	4.2	.3	*	.0		9.6	6.6	7.8	8.0	11.3	11.3
E	5.2	3.4	.1	.0	.0		8.6	6.1	7.0	7.1	11.0	9.8
SE	9.3	10.8	.5	*	.0		20.6	6.3	23.6	19.9	19.8	20.4
S	7.1	6.1	.3	*	*		13.5	6.5	15.2	15.0	11.0	12.5
SW	4.1	2.5	.3	*	*		6.9	6.8	8.7	7.5	5.1	6.4
W	3.6	2.4	.4	*	.0		6.5	7.5	7.6	7.8	4.8	5.4
NW	5.0	5.2	.4	*	.0		10.6	7.0	10.7	12.5	9.6	9.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	8.2						8.2	.0	6.0	7.3	9.1	9.9
TOT OBS						11351		6.9	1814	4015	2128	3394
TOT PCT	53.9	42.4	3.5	.2	*		100.0		100.0	100.0	100.0	100.0

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AREA 0005 BANGKA ISLAND NORTHWEST
.75 105.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	6.0	14.2	63.5	16.0	.4	.0	.0	6.9	100.0	1814
06&09	7.3	14.5	60.6	16.6	.9	*	.0	7.1	100.0	4015
12&15	9.1	13.8	62.1	14.4	.5	*	.0	6.7	100.0	2128
18&21	9.9	12.7	62.5	14.1	.7	.1	.0	6.7	100.0	3394
TOT								6.9		11351
PCT	8.2	13.8	61.9	15.3	.7	*	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.3	3.8	7.6	3.9		4.1
NE	1.7	2.3	3.6	1.9		5.2
E	1.9	2.6	2.3	1.4		4.7
SE	4.6	4.8	8.7	3.6		5.4
S	2.4	3.2	6.2	2.9		4.7
SW	.5	.7	2.5	1.9		6.1
W	.4	1.0	3.1	2.2		6.0
NW	.7	2.0	3.5	3.6		5.1
VAR	.0	.0	.0	.0		.0
CALM	1.3	2.1	2.1	.9		4.9
TOT OBS					1378	5.2
TOT PCT	15.7	22.7	39.7	21.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	*	.0	.1	.7	2.3	1.0	.7	.1	.1	.2	12.6	
NE	*	.1	.1	.4	1.4	.5	*	.1	.1	.1	6.9	
E	.0	.0	.0	.6	.5	.5	*	.1	.0	.1	6.2	
SE	.1	.0	.1	1.0	1.7	1.2	.4	.3	.0	.2	16.8	
S	.0	.1	.1	.3	1.6	1.1	.5	.1	.0	.1	10.8	
SW	.1	.0	.1	.4	1.3	.7	.2	.1	.0	.0	2.8	
W	.1	.0	.1	.8	1.5	.4	.1	.1	.0	.0	3.8	
NW	.0	.0	.1	1.1	1.1	1.0	.5	.1	*	.2	5.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.1	.2	.6	.3	.2	.0	.0	.1	4.8	
TOT PCT	.3	.2	.8	5.6	11.8	6.6	2.7	.8	.1	.9	70.2	1378 100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.9	1.1	1.1	1.1	1.1	1.1	1.1	1.1
* OR >5000	1.7	2.0	2.0	2.0	2.0	2.0	2.0	2.0
* OR >3500	3.7	4.6	4.7	4.7	4.7	4.7	4.7	4.7
* OR >2000	9.2	11.0	11.3	11.3	11.3	11.3	11.3	11.3
* OR >1000	18.6	22.0	23.0	23.1	23.1	23.1	23.1	23.1
* OR >600	22.4	27.1	28.3	28.6	28.7	28.7	28.7	28.7
* OR >300	22.5	27.8	29.1	29.4	29.5	29.5	29.6	29.6
* OR >150	22.6	27.9	29.2	29.6	29.7	29.7	29.7	29.7
* OR > 0	22.8	28.1	29.5	29.8	29.9	29.9	30.0	30.0

TOTAL NUMBER OF OBS: 1407 PCT FREQ NH <5/8: 70.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
4.8	15.1	22.3	15.7	12.2	8.1	7.5	5.2	9.0	.0	1525

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AREA 0002 BANGKA ISLAND NORTHWEST
.7S 105.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
1/2<1	PCP	*	.0	.0	.0	.0	.0	*	.0	.0	.0	*	
	NO PCP	.1	.1	*	.1	*	*	*	*	.0	.0	.3	
	TOT %	.1	.1	*	.1	*	*	.1	*	.0	.0	.4	
1<2	PCP	.1	.0	*	*	.0	.0	*	*	.0	*	.2	
	NO PCP	.2	.1	.1	.3	.1	.0	*	*	.0	.1	.9	
	TOT %	.2	.1	.1	.4	.1	.0	.1	.1	.0	.1	1.1	
2<5	PCP	*	*	*	.1	.1	.1	.2	.1	.0	*	.6	
	NO PCP	.1	.1	.1	.1	.1	.1	.1	.1	.0	.1	.9	
	TOT %	.1	.1	.1	.2	.2	.2	.3	.2	.0	.1	1.5	
5<10	PCP	1.3	.7	.4	.6	.5	.6	.7	1.4	.0	.2	6.3	
	NO PCP	5.8	3.3	3.1	8.9	3.8	1.5	1.8	3.4	.0	1.5	33.1	
	TOT %	7.0	4.0	3.4	9.5	4.3	2.0	2.5	4.8	.0	1.7	39.4	
10+	PCP	.3	.3	.1	.2	.3	.2	.3	.3	.0	*	2.0	
	NO PCP	9.2	5.4	4.8	13.4	8.2	3.0	3.4	5.3	.0	3.0	55.6	
	TOT %	9.5	5.7	4.9	13.6	8.5	3.2	3.7	5.5	.0	3.0	57.6	
	TOT OBS												3614
	TOT PCT	16.9	10.0	8.6	23.8	13.1	5.4	6.6	10.6	.0	4.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	4-10	*	.0	*	*	.0	.0	.0	*	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.0	*	*	.0	.0	.0	*	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	.0	*	*	*	.1	*	*	.0	.0		.2	
	11-21	*	*	.0	*	.0	.0	.0	*	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	*	.0	.0		*	
	TOT %	*	.1	*	*	.1	*	*	*	.0	*	.3	
1<2	0-3	*	.0	.0	.0	*	*	.0	*	.0	.1	.1	
	4-10	.1	*	.1	.1	*	*	*	.1	.0		.4	
	11-21	*	*	.0	.1	*	.0	.0	*	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.1	.1	.2	.1	.1	*	.1	.0	.1	.8	
2<5	0-3	.0	*	*	*	*	*	*	*	.0	.1	.3	
	4-10	.1	*	.1	.1	.1	.1	.1	.1	.0		.7	
	11-21	*	*	*	.1	*	*	.1	*	.0		.4	
	22+	*	*	.0	.0	.0	.0	.0	*	.0		*	
	TOT %	.1	.1	.1	.2	.2	.2	.2	.2	.0	.1	1.4	
5<10	0-3	.4	.3	.4	.4	.4	.2	.2	.4	.0	1.1	3.9	
	4-10	2.7	1.5	1.4	3.9	1.7	1.0	1.1	1.6	.0		15.1	
	11-21	1.0	.5	.2	1.3	.5	.1	.2	.8	.0		4.6	
	22+	*	*	*	*	*	*	*	*	.0		.2	
	TOT %	4.2	2.4	2.0	5.7	2.7	1.3	1.6	2.9	.0	1.1	23.8	
10+	0-3	1.4	1.1	1.2	1.7	1.6	1.0	.9	1.1	.0	6.5	16.5	
	4-10	7.1	4.9	4.4	11.9	7.6	3.4	2.8	5.3	.0		47.4	
	11-21	2.4	.9	.5	2.5	1.4	.3	.4	1.0	.0		9.5	
	22+	.1	*	.0	*	*	*	*	*	.0		.2	
	TOT %	11.0	6.9	6.1	16.1	10.6	4.7	4.1	7.4	.0	6.5	73.6	
	TOT OBS												6698
	TOT PCT	15.8	9.5	8.3	22.3	13.6	6.3	6.0	10.6	.0	7.9	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.2	.3	.5	5.4	11.8	7.2	2.4	1.0	.5	.5	30.6	69.4	382
06E09	.3	.0	.5	6.0	13.4	7.4	1.9	1.0	.0	.9	31.3	68.7	363
12E15	.2	.3	1.0	3.5	11.4	4.7	2.9	.0	.0	1.0	25.0	75.0	434
18E21	.3	.0	1.6	6.0	7.7	5.3	3.2	.6	.0	1.3	25.9	74.1	311
TOT													1490
PCT	.3	.1	.8	5.3	11.2	6.2	2.6	.8	.1	.9	28.3	71.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.3	.3	1.0	1.5	24.5	72.5	1228
06E09	.1	.5	1.0	1.2	25.0	72.2	2186
12E15	.1	.3	.5	1.5	22.5	75.1	1467
18E21	.1	.3	.9	1.4	28.3	69.0	2097
TOT							6978
PCT	.1	.3	.9	1.4	25.3	72.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.2	1.1	7.1	24.7	68.2	969
06E09	.3	.7	9.0	24.2	66.8	40
12E15	.2	1.9	6.8	19.8	73.4	313
18E21	.3	2.1	9.9	18.8	71.4	285
TOT						1407
PCT	.3	1.4	8.1	22.0	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
90/94	.0	.0	.0	*	.3	.1	*	.0		.5
85/89	.0	.0	.0	*	1.4	6.8	3.0	.4		11.7
80/84	.0	.0	.0	*	.9	23.0	43.2	9.3		76.4
75/79	.0	.0	.0	.0	.1	.6	5.2	5.4		11.3
70/74	.0	.0	.0	.0	.0	.0	.1	.1		.1
TOTAL									2817	100.0
PCT	.0	.0	.0	.1	2.8	30.5	51.5	15.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	*	.1	.1	.1	.1	.1	.0	*	.0	.1
	1.3	.9	1.2	4.1	1.8	.4	.3	.9	.0	.7
	13.1	7.6	7.5	19.3	9.8	3.2	4.3	7.5	.0	4.1
	2.4	1.2	.4	1.1	.9	1.0	1.9	2.3	.0	.1
	.0	.0	.0	.0	.1	*	*	.0	.0	.0
	16.8	9.8	9.2	24.6	12.7	4.8	6.5	10.7	.0	5.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	93	87	85	81	77	75	73	81.2	1826
06E09	95	90	88	83	79	76	70	83.1	4005
12E15	89	85	84	82	79	77	74	81.9	2141
18E21	89	84	83	81	78	76	71	81.3	3415
TOT	95	88	86	82	78	76	70	82.0	11387

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.2	1.0	22.5	55.0	21.4	84	632
06E09	.0	.2	7.1	41.2	40.1	11.4	80	886
12E15	.0	.0	1.7	31.8	52.7	13.8	82	679
18E21	.0	.0	.6	21.5	59.6	18.3	84	879
TOT	0	3	84	904	1585	494	83	3076

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.1	.0	*	3	.0	.1
9/10	.0	.0	.0	.1	.0	.1	6	.0	.2
7/8	.0	.0	.0	.2	.2	.2	20	.0	.6
6	.0	.0	*	.1	.2	.2	18	.0	.6
5	.0	.0	.0	.3	.5	.3	33	.0	1.1
4	.0	.0	.1	.5	1.3	.2	62	.1	2.0
3	.0	.0	*	.6	1.3	.4	57	*	1.9
2	.0	*	.1	3.7	2.3	.2	188	.1	6.2
1	.0	.0	.4	5.7	2.1	.0	245	.4	7.8
0	.0	.0	2.1	14.9	3.0	.0	597	.6	19.3
-1	.0	.1	3.6	16.2	.9	.0	564	.6	18.2
-2	.0	.1	3.9	12.9	.4	.0	518	.3	16.9
-3	.0	.1	2.6	5.3	.3	.0	245	.2	4.1
-4	.0	.1	3.4	3.6	.2	.0	222	.1	7.2
-5	.0	.2	2.0	1.3	.0	.0	119	*	4.0
-6	.0	.1	.8	.3	.0	.0	37	*	1.2
-7/-8	.0	.2	1.1	.4	.0	.0	49	.0	1.6
-9/-10	.0	.1	.1	*	.0	.0	7	.0	.2
-11/-13	*	.0	*	*	.0	.0	3	.0	.1
TOTAL							2994		
PCT	*	1.0	20.3	64.6	12.8	1.3	100.0	2.5	97.5

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	2.7	.1	.0	.0	.0	3.8
1-2	.1	4.8	3.0	.0	.0	.0	7.9
3-4	.0	1.9	2.8	.0	.0	.0	4.7
5-6	.0	.2	1.8	.0	.0	.0	2.0
7	.0	.0	.6	.2	.0	.0	.8
8-9	.0	.1	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	9.8	8.3	.2	.0	.0	19.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.6	.0	.0	.0	.0	2.1
1-2	.4	3.7	1.3	.0	.0	.0	5.5
3-4	.0	1.2	1.1	.0	.0	.0	2.4
5-6	.0	*	.4	.0	.0	.0	.4
7	.0	*	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	6.6	3.0	.0	.0	.0	10.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.6	.0	.0	.0	.0	2.0
1-2	.0	3.6	1.0	.0	.0	.0	4.6
3-4	.0	1.0	.4	.0	.0	.0	1.3
5-6	.0	.1	.3	.0	.0	.0	.4
7	.0	.1	.0	.0	.0	.0	.1
8-9	.0	.1	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	6.5	1.8	.0	.0	.0	8.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	3.3	.0	.0	.0	.0	3.6
1-2	1.1	9.6	2.2	.0	.0	.0	12.9
3-4	.0	3.0	3.4	.0	.0	.0	6.5
5-6	.0	.2	1.4	*	.0	.0	1.6
7	.0	.1	.2	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	16.3	7.2	*	.0	.0	24.9

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TABLE 18 (CONT) .7S 105.0E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.1	.0	.0	.0	.0	1.5	.2	.9	.0	.0	.0	.0	1.0
1-2	.3	6.6	1.4	.0	.0	.0	8.3	.2	2.2	.1	.0	.0	.0	2.4
3-4	.0	.8	1.3	.0	.0	.0	2.1	.0	.5	.4	.0	.0	.0	.9
5-6	.0	.2	.8	.1	.0	.0	1.1	.0	.0	*	.0	.0	.0	*
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.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	.7	8.6	3.7	.1	.0	.0	13.2	.3	3.5	.5	.0	.0	.0	4.4

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.3	.7	.0	.0	.0	.0	1.0	.5	1.0	.0	.0	.0	.0	1.5	
1-2	.1	1.6	.4	.0	.0	.0	2.1	.1	2.0	.7	.0	.0	.0	2.8	
3-4	.0	.1	.3	.0	.0	.0	.5	.1	.7	1.9	.2	.0	.0	2.9	
5-6	.0	.0	.1	.1	.0	.0	.3	.0	.0	.4	.0	.0	.0	.4	
7	.0	.0	.2	.0	.0	.0	.2	.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	2.4	1.1	.1	.0	.0	4.1	.7	3.7	3.0	.2	.0	.0	7.6	92.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.7	12.9	.1	.0	.0	.0	24.7	
1-2	2.8	33.5	9.8	.0	.0	.0	46.1	
3-4	.1	9.1	11.5	.2	.0	.0	20.9	
5-6	.0	.7	5.1	.3	.0	.0	6.1	
7	.0	.3	1.4	.2	.0	.0	1.9	
8-9	.0	.3	.0	.0	.0	.0	.3	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	673
TOT PCT	14.6	56.8	28.0	.6	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1972 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	13.8	34.5	15.3	3.8	1.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	785	2
6-7	.1	1.6	4.2	3.7	.5	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	118	4
8-9	.0	.4	.8	.8	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31	5
10-11	.0	.3	.4	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	4
12-13	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
>13	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDET	13.0	1.9	1.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	197	1
TOTAL																				1148	2
PCT	26.8	38.9	22.2	8.8	2.0	1.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1908-1973
(OVER-ALL) 1854-1973

AREA 0005 BANGKA ISLAND NORTHWEST
.75 105.0E

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	.1	.1	.0	.0	.0	.1	.0	.0	.0	3	*
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	3	*
89/90	.0	.0	.1	.2	.3	1.2	.5	.1	.0	.3	.0	.1	26	.2
87/88	.1	.4	2.4	7.3	6.6	5.1	2.0	.4	.5	2.1	.9	1.0	264	2.5
85/86	2.1	2.8	9.0	26.9	38.9	22.5	13.0	9.3	11.4	14.9	16.3	5.7	1536	14.7
83/84	12.9	20.4	35.5	42.7	41.2	47.7	48.1	40.6	43.0	45.1	45.9	27.5	3930	37.6
81/82	53.7	46.1	42.3	19.2	11.9	19.7	32.3	44.2	38.8	32.2	32.5	47.9	3641	34.8
79/80	26.9	24.3	8.7	2.3	.6	1.7	3.1	3.9	4.9	4.0	3.4	15.4	855	8.2
77/78	3.8	5.2	1.3	1.1	.2	1.3	.7	.8	1.1	.8	.8	2.1	166	1.6
75/76	.5	.4	.7	.1	.1	.5	.2	.1	.2	.5	.0	.1	32	.3
73/74	.0	.3	.0	.1	.0	.1	.1	.2	.0	.0	.0	.0	7	.1
71/72	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	2	*
69/70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
67/68	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
65/66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
63/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	984	783	1063	905	929	918	819	831	845	870	852	670	10465	100.0
MEAN	81.1	81.3	82.5	83.8	84.2	83.6	83.0	82.6	82.7	83.0	83.0	81.9	82.7	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GHT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1011	1009	1010	1008	1010	1011	1011	1009	1010	386
FEB	1011	1011	1010	1009	1010	1011	1011	1010	1010	303
MAR	1010	1009	1010	1008	1009	1010	1010	1009	1010	438
APR	1010	1011	1009	1008	1009	1010	1010	1009	1009	377
MAY	1010	1011	1009	1008	1009	1009	1009	1009	1009	334
JUN	1010	1010	1009	1008	1009	1011	1010	1009	1009	368
JUL	1010	1010	1010	1008	1009	1010	1010	1009	1010	319
AUG	1011	1009	1010	1008	1009	1010	1010	1009	1010	299
SEP	1011	1011	1010	1008	1009	1011	1010	1009	1010	318
OCT	1011	1010	1010	1009	1010	1010	1010	1010	1010	360
NOV	1011	1011	1010	1009	1010	1011	1010	1009	1010	314
DEC	1010	1012	1010	1008	1009	1010	1010	1009	1010	298
ANN	1011	1010	1010	1008	1009	1010	1010	1009	1010	4114
OBS	703	44	974	430	780	87	684	412		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	1004	1006	1007	1009	1010	1011	1013	1014	1015
FEB	1005	1006	1007	1009	1010	1011	1013	1013	1014
MAR	1005	1005	1006	1008	1010	1011	1012	1013	1014
APR	1005	1005	1006	1008	1009	1010	1013	1014	1015
MAY	1004	1005	1006	1008	1009	1010	1012	1013	1014
JUN	1004	1005	1006	1008	1009	1010	1012	1013	1015
JUL	1005	1006	1006	1008	1009	1011	1012	1014	1015
AUG	1004	1006	1007	1009	1010	1011	1012	1014	1015
SEP	1006	1006	1007	1009	1010	1011	1012	1013	1014
OCT	1006	1006	1007	1009	1010	1011	1013	1013	1014
NOV	1005	1006	1007	1009	1010	1011	1013	1013	1014
DEC	1004	1005	1007	1008	1009	1011	1013	1013	1014

JANUARY

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1858-1973

AREA 0006 MATUNA ISLAND
3.5N 107.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	3.1	1.8	2.3	.0	.0	.0	.0	7.2	3.4	.2	.1	.0	.6		.0	88.4
NE	3.3	1.6	1.1	.0	.0	.0	.0	5.9	2.9	.3	.2	.0	.3		.0	90.3
E	3.6	.6	1.1	.0	.0	.0	.0	5.3	6.9	.0	.6	.0	.0		.0	87.2
SE	10.2	2.0	.0	.0	.0	.0	.0	12.2	10.2	.0	.0	.0	.0		.0	77.6
S	8.3	8.3	11.1	.0	.0	.0	.0	27.8	.0	.0	.0	.0	.0		.0	72.2
SW	.0	.0	.0	.0	.0	.0	.0	.0	13.8	.0	.0	.0	.0		.0	86.2
W	14.6	4.2	.0	.0	.0	.0	.0	18.8	.0	.0	.0	.0	.0		.0	81.3
NW	8.0	2.3	6.1	.0	.0	.0	.0	16.3	1.9	.0	.0	.0	.4		.0	81.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	4.8	.0	.0	.0	.0	.0	4.8	4.8	.0	.0	.0	.0		.0	90.5
TOT PCT	3.6	1.7	1.7	.0	.0	.0	.0	6.9	3.3	.3	.2	.0	.4		.0	88.9
TOT OBS:	1544															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.1	2.6	1.7	.0	.0	.0	.0	7.4	4.1	.5	.0	.0	.5		.0	87.6
06&09	3.5	1.8	1.3	.0	.0	.0	.0	6.6	2.4	.0	.0	.0	.9		.0	90.0
12&15	2.8	1.7	1.7	.0	.0	.0	.0	6.0	3.7	.2	.0	.0	.0		.0	90.1
18&21	4.9	.9	2.1	.0	.0	.0	.0	7.9	3.0	.3	.9	.0	.0		.0	87.8
TOT PCT	3.5	1.8	1.7	.0	.0	.0	.0	7.0	3.3	.3	.2	.0	.4		.0	88.9
TOT OBS:	1552															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.0	11.7	14.2	2.0	.1	.0		29.0	12.2	28.8	33.5	25.9	35.5	28.9	23.4	29.9	27.8
NE	1.7	22.2	28.8	3.5	.1	.0		54.1	12.2	54.9	55.3	57.3	49.8	55.2	53.7	51.8	48.0
E	.5	4.1	2.1	.1	.0	.0		6.8	9.7	7.1	6.3	6.7	6.5	5.7	7.4	6.1	9.0
SE	*	.8	.3	.0	.0	.0		1.0	8.4	1.2	.8	1.5	1.1	.6	.0	.9	1.2
S	.3	.4	.1	.0	.0	.0		.8	6.9	.5	.0	1.4	1.2	.8	.0	.8	.3
SW	.1	.4	.1	.0	.0	.0		.5	7.0	.7	.0	.4	.3	.7	.5	.9	.5
W	.2	.6	.1	.1	*	.0		1.0	9.4	1.2	.4	.9	.3	.8	.4	1.0	1.7
NW	.5	2.5	1.7	.3	.1	.0		5.0	10.9	4.0	2.8	4.4	4.1	4.8	.7	6.2	8.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8							1.9	.3	1.5	.8	1.6	1.2	2.7	.0	2.4	3.0
TOT OBS	164	1185	1255	164	7	0	2775		11.6	466	123	626	325	450	138	379	298
TOT PCT	5.9	42.7	45.2	5.9	.3	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.2	19.0	5.3	.5	.0		29.0	12.2	29.8	29.2	27.8	29.0
NE	7.5	35.2	10.8	.6	.0		54.1	12.2	55.0	54.7	56.9	53.1
E	1.8	4.3	.6	*	.0		6.8	9.7	7.0	6.7	6.0	7.4
SE	.4	.5	.1	.0	.0		1.0	8.4	1.1	1.3	.4	1.0
S	.4	.4	*	.0	.0		.8	6.9	.4	1.3	.6	.6
SW	.3	.2	*	.0	.0		.5	7.0	.6	.3	.6	.7
W	.4	.5	.1	.1	.0		1.0	9.4	1.0	.7	.9	1.2
NW	1.4	2.5	.9	.1	.0		5.0	10.9	3.8	4.3	4.6	7.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.8						1.9	.3	1.4	1.5	2.2	2.7
TOT OBS	503	1740	494	38	0	2779		11.6	389	491	558	677
TOT PCT	18.1	62.7	17.8	1.4	.0		100.0		100.0	100.0	100.0	100.0

JANUARY

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1858-1973

TABLE 4

AREA 0006 NATUNA ISLAND
3.5N 107.1E

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.4	3.6	43.8	44.7	6.5	.1	.0	11.8	100.0	589
06&09	1.9	3.3	41.3	47.5	5.9	.1	.0	11.9	100.0	951
12&15	2.2	4.8	40.7	45.7	6.6	.0	.0	11.7	100.0	558
18&21	2.7	5.2	45.1	42.1	4.9	.1	.0	11.0	100.0	677
TOT	52	114	1183	1255	164	7	0	11.6		2775
PCT	1.9	4.1	42.6	45.2	5.9	.3	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.5	4.4	12.1	7.8		5.8
NE	7.7	11.1	26.1	14.1		5.5
E	.8	1.4	2.4	1.8		5.4
SE	.2	.2	*	.4		5.4
S	.0	.1	.2	.5		7.1
SW	.1	.1	.1	.2		5.4
W	.0	.1	.3	.1		6.5
NW	.3	.7	1.3	1.2		5.8
VAR	.0	.0	.0	.0		.0
CALM	.2	.6	.6	.3		4.9
TOT OBS	122	193	445	273	1033	5.6
TOT PCT	11.8	18.7	43.1	26.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8 AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	.1	.4	3.1	3.7	2.4	.4	.3	.1	.0	16.2	
NE	.4	.1	1.3	4.0	10.1	4.7	1.1	.5	.4	.2	36.1	
E	.0	.0	.1	1.0	1.2	.2	.0	.1	.0	.0	3.9	
SE	*	.0	.1	.2	.1	.0	.0	.0	.0	.0	.4	
S	.2	.0	.0	.1	.1	.1	.0	.0	.0	.0	.3	
SW	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.4	
W	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	
NW	.0	.0	.0	.8	.7	.2	.1	*	.0	.0	1.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.4	.0	.0	.1	.0	.0	.0	1.2	
TOT OBS	7	2	19	99	166	80	19	10	5	2	624	1033
TOT PCT	.7	.2	1.8	9.6	16.1	7.7	1.8	1.0	.5	.2	60.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.7	.7	.7	.7	.7	.7	.7	.7
* OR >5000	1.4	1.5	1.6	1.6	1.6	1.6	1.6	1.6
* OR >3500	2.7	3.3	3.5	3.5	3.5	3.5	3.5	3.5
* OR >2000	8.1	10.4	11.3	11.3	11.3	11.3	11.3	11.3
* OR >1000	17.7	25.3	27.1	27.2	27.3	27.3	27.3	27.3
* OR >600	22.8	33.5	36.5	36.7	36.7	36.8	36.8	36.8
* OR >300	23.1	35.1	38.1	38.5	38.5	38.7	38.7	38.7
* OR >150	23.2	35.2	38.3	38.7	38.7	38.9	38.9	38.9
* OR > 0	23.3	35.4	38.7	39.2	39.3	39.5	39.5	39.5
TOTAL	242	367	401	407	408	410	410	410

TOTAL NUMBER OF OBS: 1037 PCT FREQ NH <5/8: 60.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
20.0	6.6	17.4	19.3	14.8	9.3	9.9	7.1	13.0	.5	1091

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1858-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	PCP	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.1	.0	.0	.0	.0	.0	.1	.0	.0	.2	
	TOT %	.1	.2	.0	.0	.0	.0	.0	.1	.0	.0	.4	
1<2	PCP	.2	.1	.0	*	*	.0	.0	.1	.0	.0	.4	
	NO PCP	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.2	.2	.0	.1	*	.0	.0	.1	.0	.0	.6	
2<5	PCP	.8	.5	.2	*	*	.0	.1	.3	.0	.0	1.6	
	NO PCP	.9	.8	.2	.1	.0	.0	.0	.2	.0	.0	2.2	
	TOT %	1.4	1.3	.4	.1	*	.0	.1	.5	.0	.0	3.8	
5<10	PCP	.4	1.3	*	.0	.0	.0	*	*	.0	.1	1.9	
	NO PCP	5.8	12.0	1.0	.2	*	.1	.1	1.1	.0	.1	20.4	
	TOT %	6.1	13.3	1.1	.2	*	.1	.2	1.1	.0	.2	22.3	
10+	PCP	.8	1.4	.1	.1	.1	.0	.0	.3	.0	.0	2.7	
	NO PCP	19.3	41.4	4.3	.4	.4	.4	.5	2.3	.0	1.2	70.1	
	TOT %	20.1	42.8	4.4	.5	.5	.4	.5	2.5	.0	1.2	72.8	
	TOT OBS												1544
	TOT PCT	28.0	57.9	5.5	.9	.6	.9	.8	4.3	.0	1.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	.0	.0	.0	.0	.0	.0	.0	.0		*	
	11-21	.0	*	*	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	*	.0	.0	.0	.0	.0	.0	.0	.1	
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		.2	
	11-21	*	.1	.0	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	TOT %	.2	.2	.0	.0	.0	.0	.0	*	.0	.0	.4	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	*	.0	*	.0	*	.0	*	.0		.3	
	11-21	.1	.2	*	*	*	.0	.0	.0	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.3	*	.1	*	*	.0	*	.0	.0	.7	
2<5	0-3	.0	*	.0	.0	.0	.0	.0	*	.0	.0	.1	
	4-10	.7	.4	.2	.1	*	.0	*	.1	.0		1.6	
	11-21	.9	1.2	.1	*	*	.0	*	.2	.0		2.5	
	22+	.2	.1	.0	.0	.0	.0	*	.1	.0		.5	
	TOT %	1.9	1.7	.4	.1	.1	.0	.1	.4	.0	.0	4.7	
5<10	0-3	.1	.2	.0	.0	.0	.0	*	.0	.0	.1	.4	
	4-10	1.6	3.2	.6	.1	*	.1	.1	.5	.0		6.1	
	11-21	3.6	6.9	.4	.1	.0	.0	*	.3	.0		11.3	
	22+	.7	1.4	.0	.0	.0	.0	.0	.2	.0		2.4	
	TOT %	5.9	11.7	1.0	.2	*	.1	.2	.9	.0	.1	20.2	
10+	0-3	.6	1.2	.3	.0	.1	.1	.1	.5	.0	1.3	4.1	
	4-10	9.1	19.0	3.3	.5	.3	.2	.3	1.4	.0		34.1	
	11-21	9.6	20.6	1.6	.1	.0	*	*	.8	.0		32.7	
	22+	.9	1.9	*	.0	.0	.0	.0	.1	.0		3.0	
	TOT %	20.2	42.6	5.2	.6	.4	.3	.4	2.7	.0	1.4	73.9	
	TOT OBS												2083
	TOT PCT	28.4	56.6	6.6	.9	.6	.5	.7	4.2	.0	1.5	100.0	

JANUARY

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1858-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	1.0	.3	2.6	10.8	16.0	7.8	2.6	1.3	.0	.0	42.5	57.5	306
06E09	.3	.0	.6	11.0	16.2	6.1	1.5	.9	.3	.6	37.6	62.4	327
12E15	.4	.4	2.5	6.8	15.6	8.0	1.7	.4	1.7	.0	37.6	62.4	237
18E21	1.0	.0	1.5	7.1	14.2	9.1	1.0	1.0	.0	.0	35.0	65.0	197
TOT	7	2	19	99	167	81	19	10	5	2	411	656	1067
PCT	.7	.2	1.8	9.3	15.7	7.6	1.8	.9	.5	.2	38.5	61.5	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
00E03	.4	.8	.2	4.8	18.0	75.8	499
06E09	.0	.3	.5	3.8	18.6	76.8	651
12E15	.0	.4	.4	5.9	24.1	69.2	461
18E21	.2	.2	1.7	4.6	20.6	72.7	480
TOT	3	9	14	98	421	1546	2091
PCT	.1	.4	.7	4.7	20.1	73.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND3+	NH <5/8 AND 5+	TOTAL OBS
00E03	1.0	4.3	17.3	26.6	56.1	301
06E09	.3	.9	14.2	24.9	60.9	317
12E15	.4	3.5	14.2	25.7	60.2	226
18E21	1.0	2.6	14.0	23.3	62.7	193
TOT	7	29	156	262	619	1037
PCT	.7	2.8	15.0	25.3	59.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.2	.2	.2	.0	6	.6
85/89	.0	.0	.0	.0	1.0	2.6	.5	.1	39	4.2
80/84	.0	.0	.0	.0	1.4	14.4	30.2	6.0	482	52.1
75/79	.0	.0	.0	.0	.1	5.3	23.9	13.1	392	42.3
70/74	.0	.0	.0	.0	.0	.0	.3	.4	7	.8
TOTAL	0	0	0	0	28	208	511	182	926	100.0
PCT	.0	.0	.0	.0	2.7	22.5	55.2	19.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.2	.4	.0	.0	.0	.1	.0	.0	.0	.0
.9	2.3	.4	.0	.0	.0	.0	.2	.0	.0
11.5	32.2	4.2	.3	.5	.5	.4	1.5	.0	1.0
13.4	23.2	2.4	.3	.2	.1	.3	2.0	.0	.4
.2	.2	.0	.0	.0	.0	.1	.2	.0	.0
26.2	58.7	7.0	.5	.8	.6	.8	3.9	.0	1.4

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	91	86	82	79	75	73	72	79.4	589
06E09	91	89	86	81	77	74	72	81.0	938
12E15	88	85	82	79	76	73	71	79.5	558
18E21	84	82	81	79	75	73	72	78.6	672
TOT	91	87	84	80	76	73	71	79.8	2757

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	1.2	14.3	62.9	21.5	85	251
06E09	.0	.0	6.2	37.0	42.2	14.5	82	289
12E15	.0	.0	1.4	21.5	59.3	17.8	84	214
18E21	.0	.0	.6	11.8	60.1	27.5	86	178
TOT	0	0	25	210	514	183	84	932

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1858-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (=ITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.1	1	.0	.1
11/13	.0	.0	.0	.0	.3	.1	7	.0	.5
9/10	.0	.0	.1	.1	.1	.1	6	.0	.4
7/8	.0	.0	.2	.3	.4	.3	17	.0	1.2
6	.0	.0	.0	.1	.4	.1	9	.0	.6
5	.0	.0	.2	1.0	.6	.1	28	.0	2.0
4	.0	.0	1.2	3.1	1.1	.0	78	.0	5.4
3	.0	.0	.4	1.8	.2	.0	34	.0	2.4
2	.1	.2	3.3	7.0	.3	.0	156	.0	10.9
1	.0	.0	3.3	3.7	.1	.0	102	.0	7.1
0	.0	.6	14.6	11.8	.1	.0	389	.0	27.1
-1	.0	.6	7.1	2.8	.0	.0	150	.1	10.3
-2	.1	1.3	11.8	3.9	.0	.0	245	.1	17.0
-3	.0	.6	3.5	.9	.0	.0	71	.0	4.9
-4	.0	1.3	4.1	.9	.0	.0	85	.0	5.9
-5	.0	.9	1.0	.1	.0	.0	28	.0	2.0
-6	.0	.3	.4	.0	.0	.0	11	.0	.8
-7/-8	.2	.4	.3	.1	.0	.0	14	.0	1.0
-9/-10	.0	.1	.1	.0	.0	.0	3	.0	.2
-11/-13	.0	.1	.0	.0	.0	.0	1	.0	.1
TOTAL	5	92	740	528	58	12	1435	3	1432
PCT	.3	6.4	51.6	36.8	4.0	.8	100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.2	.0	.0	.0	1.2
1-2	.2	5.2	2.6	.0	.0	.0	8.0
3-4	.0	3.2	7.0	.5	.0	.0	10.7
5-6	.0	.6	2.8	.0	.0	.0	3.4
7	.0	.6	.8	.6	.0	.0	2.0
8-9	.0	.0	.7	.7	.0	.0	1.4
10-11	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.2	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	10.7	14.2	2.1	.0	.0	27.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.9	.8	.0	.0	.0	3.0
1-2	.2	8.9	6.6	.0	.0	.0	15.8
3-4	.9	5.0	11.9	.2	.0	.0	18.1
5-6	.2	1.8	9.7	.9	.0	.0	12.7
7	.0	.6	2.9	.1	.0	.0	3.6
8-9	.0	.0	.5	.5	.0	.0	1.0
10-11	.0	.0	.0	.5	.0	.0	.5
12	.0	.0	.0	.0	.2	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.3	.0	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	18.3	32.3	2.6	.2	.0	55.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.4	.0	.0	.0	.0	.8
1-2	.2	3.5	1.4	.0	.0	.0	5.2
3-4	.0	.5	1.4	.0	.0	.0	1.9
5-6	.0	.4	.8	.0	.0	.0	1.2
7	.0	.0	.7	.0	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	4.7	4.3	.0	.0	.0	9.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	.0	.5	.2	.0	.0	.0	.8
3-4	.0	.0	.3	.0	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.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	.0	.8	.5	.0	.0	.0	1.3

PERIOD: (OVER-ALL) 1963-1973

JANUARY

TABLE 18 (CONT)

AREA 0006 NATUNA ISLAND
3.5N 107.1E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2	.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	.0	.2	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.2	.2	.0	.0	.0	.4	.0	.7	.0	.0	.0	.0	.7

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.5	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.2	.0	.0	.0	.0	.2	.3	.1	.3	.0	.0	.0	.7	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.3	.5	.0	.0	.0	.8	
5-6	.0	.0	.2	.0	.0	.0	.2	.0	.3	.7	.0	.0	.0	.9	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.2	.0	.4	
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	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.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	.2	.0	.0	.0	.9	.3	.7	1.5	.3	.2	.0	3.0	98.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.1	4.3	.9	.0	.0	.0	7.3	
1-2	.9	19.1	11.1	.0	.0	.0	31.2	
3-4	1.2	9.2	21.3	.7	.0	.0	32.4	
5-6	.2	3.1	14.5	.9	.0	.0	18.4	
7	.0	1.2	4.5	.7	.2	.0	6.6	
8-9	.0	.0	1.2	1.4	.0	.0	2.6	
10-11	.0	.0	.0	.7	.0	.0	.7	
12	.0	.0	.0	.0	.2	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.5	.0	.0	.5	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.5	36.9	53.2	9.0	.5	.0	100.0	423

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	3.1	13.6	14.7	9.3	1.3	.6	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	376	3
6-7	.0	3.0	8.7	11.1	6.0	2.4	1.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	278	5
8-9	.0	.2	1.2	2.9	3.5	1.8	.8	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	87	6
10-11	.0	.1	.1	.8	.7	.3	.2	.4	.1	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	28	9
12-13	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	8
>13	.0	.0	.0	.0	.2	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	10
:NDET	1.9	1.2	1.8	1.1	.4	.4	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	37	2
TOTAL	42	191	236	210	102	47	19	14	2	3	3	0	0	0	0	0	0	0	0	831	4
PCT	5.1	18.2	28.6	25.3	12.3	5.7	2.3	1.7	.2	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1923-1973
(OVER-ALL) 1856-1973

AREA 0006 NATUNA ISLAND
3.5N 107.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	1.4	3.1	1.3	.0	.0	.0	.0	5.7	3.2	.0	.0	.0	.0	.2		90.8
NE	1.6	2.2	.5	.0	.0	.0	.0	4.2	2.8	.2	.1	.0	.1	*		92.6
E	2.3	2.5	1.1	.0	.0	.0	.0	6.2	2.3	.9	.0	.0	.0	.0		90.8
SE	5.4	2.7	.0	.0	.0	.0	.0	8.1	.0	.0	.0	.0	.0	.0		91.9
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13.8	.0		86.2
SW	10.3	.0	.0	.0	.0	.0	.0	10.3	.0	.0	.0	.0	.6	.0		89.7
W	.0	.0	17.6	.0	.0	.0	.0	17.6	.0	.0	.0	.0	.0	.0		82.4
NW	.0	4.8	3.6	.0	.0	.0	.0	8.2	9.5	.0	.0	.0	.0	.0		82.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	3.2	.0	.0	.0	.0	.0	.0	3.2	3.2	.0	.0	.0	.0	.0		93.5
TOT PCT	1.7	2.3	.8	.0	.0	.0	.0	4.8	2.9	.2	.1	.0	.1	.1		91.9
TOT OBS:	1491															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA						
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03	2.0	2.7	1.0	.0	.0	.0	.0	5.5	3.2	.0	.0	.0	.2		.0	91.0
06&09	1.2	2.5	1.0	.0	.0	.0	.0	4.7	3.0	.0	.2	.0	.0		.2	91.3
12&15	1.4	2.2	.3	.0	.0	.0	.0	3.8	3.0	.3	.0	.0	.0		.0	93.1
18&21	2.4	1.8	.9	.0	.0	.0	.0	5.1	2.1	.6	.0	.0	.3		.0	92.0
TOT PCT	1.7	2.3	.8	.0	.0	.0	.0	4.8	2.9	.2	.1	.0	.1		.1	91.9
TOT OBS:	1503															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.2	12.4	8.6	.4	.0	.0		22.6	10.2	20.6	15.8	20.6	26.3	25.5	23.5	22.1	23.8
NE	2.3	30.5	26.3	1.7	.0	.0		60.8	10.9	64.5	61.8	65.8	57.6	58.9	63.4	59.3	53.0
E	1.1	5.2	1.6	.1	.0	.0		8.1	8.0	7.9	8.7	6.7	6.5	6.9	10.1	9.6	11.5
SE	.3	.9	.2	.0	.0	.0		1.4	6.7	.9	5.8	1.3	1.8	1.2	.0	.9	1.2
S	.2	.6	*	.0	.0	.0		.8	6.0	.7	.7	1.0	.6	1.0	.0	1.1	.5
SW	.2	.5	.1	*	.0	.0		.8	7.5	.6	2.1	.5	.9	.8	.0	1.0	1.2
W	.1	.4	.1	.0	.0	.0		.5	5.5	.6	.0	.5	1.2	.1	.0	.5	.7
NW	.2	1.1	.4	*	.0	.0		1.8	8.7	2.0	2.4	1.5	2.5	1.5	1.0	1.3	2.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.2							3.2	.0	1.9	2.7	2.2	2.6	4.1	2.0	4.2	5.9
TOT OBS	247	1432	1041	62	0	0	2782		10.0	468	146	568	341	484	101	407	287
TOT PCT	8.9	51.5	37.4	2.2	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	5.4	14.5	2.6	*	.0		22.6	10.2	19.6	22.8	25.1	22.8
NE	12.1	40.0	8.5	.2	.0		60.8	10.9	63.8	62.7	59.7	56.7
E	3.6	4.1	.4	.0	.0		8.1	8.0	8.1	6.6	7.4	10.4
SE	.9	.4	.1	.0	.0		1.4	6.7	2.0	1.5	1.0	1.0
S	.5	.4	.0	.0	.0		.8	6.0	.7	.8	.8	.9
SW	.4	.3	.1	.0	.0		.8	7.5	1.0	.6	.6	1.1
W	.4	.1	.0	.0	.0		.5	5.5	.4	.7	.1	.6
NW	.7	.9	.1	.0	.0		1.8	8.7	2.1	1.9	1.5	1.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.2						9.2	.0	2.1	2.4	3.8	4.9
TOT OBS	757	1690	328	7	0	2782		10.0	614	889	585	694
TOT PCT	27.2	60.7	11.8	.3	.0		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1923-1973
(OVER-ALL) 1856-1973

AREA 0006 NATUNA ISLAND
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00303	2.1	6.0	52.9	37.1	1.8	.0	.0	9.8	100.0	614
06609	2.4	5.3	49.6	40.5	2.2	.0	.0	10.3	100.0	889
12615	3.8	5.5	49.7	38.1	2.9	.0	.0	10.2	100.0	585
18621	4.9	5.9	54.0	33.1	2.0	.0	.0	9.6	100.0	694
TOT	90	157	1432	1041	62	0	0	10.0		2782
PCT	3.2	5.6	51.5	37.4	2.2	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.4	3.1	9.3	4.5		5.4
NE	9.4	15.0	30.9	13.2		5.2
E	1.2	1.8	1.8	1.6		4.9
SE	.1	.2	.1	*		3.7
S	.0	.2	.2	.1		5.1
SW	.1	.0	.3	.1		5.2
W	.1	.1	.0	.1		4.3
NW	.3	.3	.5	.2		4.7
VAR	.0	.0	.0	.0		.0
CALM	.4	.4	.9	.2		4.5
TOT OBS	140	196	408	187	931	5.2
TOT PCT	15.0	21.1	43.8	20.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.2	.2	2.3	2.4	1.9	.5	.0	.0	.1	12.7	
NE	.1	.2	.8	5.2	9.9	5.4	1.3	.1	.0	.1	45.4	
E	.0	.1	.0	.6	.7	.2	.0	.1	.0	.0	4.7	
SE	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.5	
S	.0	.0	.0	.1	.0	.1	.1	.0	.0	.0	.2	
SW	.0	.0	.0	*	.0	*	*	.0	.0	.0	.4	
W	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
NW	*	.0	.0	.2	*	*	.1	.0	.0	.0	.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.2	.2	.0	.0	.1	.0	.0	1.4	
TOT OBS	2	5	9	80	123	71	18	3	0	2	618	931
TOT PCT	.2	.5	1.0	8.6	13.2	7.6	1.9	.3	.0	.2	66.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >5UYD	* OR >0
* OR >6500	.2	.2	.2	.2	.2	.2	.2	.2
* OR >5000	.5	.5	.5	.5	.5	.5	.5	.5
* OR >3500	1.8	2.4	2.5	2.5	2.5	2.5	2.5	2.5
* OR >2000	6.8	9.9	10.2	10.2	10.2	10.2	10.2	10.2
* OR >1000	14.8	22.8	23.3	23.4	23.4	23.4	23.4	23.4
* OR >600	19.6	30.8	31.8	31.9	31.9	31.9	32.0	32.0
* OR >300	20.1	31.7	32.6	32.8	32.8	32.8	32.9	32.9
* OR >150	20.3	32.0	32.9	33.4	33.4	33.4	33.5	33.5
* OR > 0	20.4	32.2	33.2	33.6	33.6	33.6	33.7	33.7
TOTAL	191	301	310	314	314	314	315	315

TOTAL NUMBER OF OBS: 935 PCT FREQ NH <5/8: 66.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
9.4	11.8	20.6	15.6	14.0	8.9	8.9	8.1	8.5	.2	991

PERIOD: (PRIMARY) 1923-1973
(OVER-ALL) 1856-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1<2	PCP	*	.3	.0	.1	.0	.0	.0	*	.0	.0	.4	
	NO PCP	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.3	.0	.1	.0	.0	.0	*	.0	.0	.5	
2<5	PCP	.7	.3	.1	.0	.0	.0	.0	.0	.0	.0	.5	
	NO PCP	.8	.5	.1	.1	.1	.0	.0	.1	.0	.0	1.3	
	TOT %	.8	.8	.1	.1	.1	.0	.0	.1	.0	.0	1.9	
5<10	PCP	.4	1.2	.2	*	.0	.1	.1	*	.0	.0	1.9	
	NO PCP	9.2	13.2	1.0	.1	.1	.1	.1	.1	.0	.1	20.0	
	TOT %	9.6	14.4	1.2	.1	.1	.2	.1	.1	.0	.1	21.9	
10+	PCP	.6	.9	.2	.0	.0	.0	.0	.1	.0	.1	1.8	
	NO PCP	13.7	49.2	5.6	1.0	.4	.5	.2	1.1	.0	1.9	73.7	
	TOT %	14.3	50.9	6.9	1.0	.4	.5	.2	1.2	.0	2.0	75.5	
	TOT OBS												1489
	TOT PCT	20.7	65.8	7.3	1.2	.5	.7	.3	1.4	.0	2.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	*	.0	.0	.0	*	.0	.0	.0	*	.1	
	4-10	.0	.2	*	.0	.0	*	.0	.0	.0		.3	
	11-21	*	*	.0	.0	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.3	*	.0	.0	.1	.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	
	11-21	*	.1	*	*	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.1	*	*	.0	.0	.0	.0	.0	.0	.1	
1<2	0-3	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	*	.1	.0	.0	.0	.0	.0	*	.0		.1	
	11-21	.1	.2	.0	*	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.3	.0	*	.0	.0	.0	*	.0	.0	.5	
2<5	0-3	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.3	
	4-10	.3	.4	.1	*	*	.0	.0	.0	.0		.8	
	11-21	.5	1.0	.1	*	.0	.0	.0	*	.0		1.6	
	22+	.1	.1	.0	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.9	1.5	.3	.1	*	.0	.0	*	.0	.0	2.9	
5<10	0-3	.1	.1	.0	.0	*	.0	.0	.0	.0	*	.4	
	4-10	2.1	4.5	.8	.1	.0	.1	.1	.1	.0		7.7	
	11-21	2.6	6.6	.3	.1	.0	*	*	*	.0		9.7	
	22+	.1	.6	*	.0	.0	.0	.0	.0	.0		.8	
	TOT %	4.9	11.9	1.1	.2	*	.2	.1	.1	.0	*	18.6	
10+	0-3	1.0	1.5	1.0	.2	.1	.2	.1	.2	.0	2.8	7.1	
	4-10	9.6	28.0	4.3	.8	.3	.4	.2	.8	.0		42.4	
	11-21	5.0	20.4	.9	.1	.0	.0	*	.3	.0		26.7	
	22+	.1	.8	.1	.0	.0	*	.0	.0	.0		1.1	
	TOT %	15.7	48.7	6.3	1.1	.4	.6	.4	1.3	.0	2.8	77.3	
	TOT OBS												2056
	TOT PCT	21.7	62.8	7.8	1.4	.5	.9	.5	1.5	.0	2.9	100.0	

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PERIOD: (PRIMARY) 1923-1972
(OVER-ALL) 1856-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00Z03	.4	.4	.4	11.7	12.9	10.2	3.1	.0	.0	.0	39.1	60.9	256
06Z09	.4	.8	.8	7.3	15.1	7.7	.8	.0	.0	.4	33.2	66.8	259
12Z15	.0	.8	.8	8.0	15.1	3.8	1.7	.4	.0	.0	30.7	69.3	238
18Z21	.0	.0	1.9	5.7	7.6	8.1	1.9	.9	.0	.5	26.5	73.5	211
TOT	2	5	9	80	124	72	18	3	0	2	315	649	964
PCT	.2	.5	.9	8.3	12.9	7.5	1.9	.3	.0	.2	32.7	67.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00Z03	1.4	.0	.6	2.6	17.2	78.3	506
06Z09	.5	.3	.5	2.0	17.4	79.3	808
12Z15	.0	.2	.7	3.7	22.6	72.8	480
18Z21	.2	.0	.6	3.6	17.4	78.1	494
TOT	11	3	12	60	383	1399	2068
PCT	.5	.1	.6	2.9	18.5	77.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <500YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00Z03	.4	1.6	13.7	26.9	59.4	249
06Z09	.4	2.4	10.7	23.7	65.8	253
12Z15	.0	1.3	11.8	21.1	67.1	228
18Z21	.0	2.0	10.2	18.5	71.2	205
TOT	2	18	109	213	613	935
PCT	.2	1.9	11.7	22.8	65.6	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	.4	.2	.2	.1	.0	8	1.0
85/89	.0	.0	.0	.1	1.0	3.3	.4	.0	39	4.8
80/84	.0	.0	.0	.0	1.1	19.1	27.6	7.1	448	55.0
75/79	.0	.0	.0	.0	.0	4.0	23.7	11.2	317	38.9
70/74	.0	.0	.0	.0	.0	.0	.1	.2	3	.4
TOTAL	0	0	0	4	19	218	423	151	815	100.0
PCT	.0	.0	.0	.5	2.3	26.7	51.9	18.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	7	.0	.0	.0	.0	.0	.0	.0	.1
.7	1.4	.2	.0	.1	.0	.0	.0	.0	.1
9.4	39.4	3.1	.3	.1	.3	.1	.5	.0	1.7
8.4	25.3	3.2	.2	.1	.3	.2	.7	.0	.5
.1	.1	.0	.0	.1	*	.0	.0	.0	.0
18.7	69.4	6.5	.5	.4	.6	.3	1.2	.0	2.5

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00Z03	90	87	84	80	77	75	73	80.0	602
06Z09	93	90	86	81	77	74	70	81.3	873
12Z15	88	86	83	80	77	75	68	80.0	582
18Z21	86	83	82	79	76	73	72	79.1	692
TOT	93	88	84	80	77	75	68	80.2	2749

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00Z03	.0	.0	.5	19.9	55.5	24.2	85	211
06Z09	.0	1.8	5.8	44.8	36.8	10.8	80	223
12Z15	.0	.0	1.9	21.4	57.3	19.4	84	206
18Z21	.0	.0	.6	17.8	61.1	20.6	85	180
TOT	0	4	19	218	427	152	83	820

PERIOD: (PRIMARY) 1923-1973
(OVER-ALL) 1856-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA THP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.1	.0	.0	.1	.1	4	.0	.3
9/10	.0	.0	.0	.1	.1	.1	.4	.0	11	.0	.8
7/8	.0	.0	.0	.1	.1	1.1	.2	.0	21	.0	1.5
6	.0	.0	.0	.0	.1	.4	.1	.0	9	.0	.7
5	.0	.0	.0	.3	1.2	.6	.0	.0	29	.0	2.1
4	.0	.0	.1	.7	3.2	1.1	.0	.0	71	.0	5.2
3	.0	.0	.0	.4	1.5	.1	.0	.0	27	.0	2.0
2	.0	.0	.2	2.4	8.7	.4	.0	.0	160	.0	11.7
1	.0	.0	.0	4.0	4.3	.1	.0	.0	113	.1	8.2
0	.0	.1	.4	13.9	15.8	.1	.1	.0	414	.0	30.4
-1	.0	.0	.1	6.7	2.9	.0	.0	.0	132	.0	9.7
-2	.0	.1	.8	10.1	4.5	.0	.0	.0	211	.0	15.5
-3	.0	.0	.1	2.9	.8	.0	.0	.0	52	.0	3.8
-4	.0	.0	1.4	3.0	.4	.0	.0	.0	66	.0	4.8
-5	.0	.0	.4	1.0	.3	.1	.0	.0	25	.0	1.8
-6	.0	.0	.1	.4	.0	.0	.0	.0	7	.0	.5
-7/-8	.0	.0	.1	.2	.0	.0	.0	.0	5	.0	.4
-9/-10	.0	.0	.2	.1	.0	.0	.0	.0	5	.0	.4
-14/-16	.1	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	1		96		802		12			1	1362
		.2		633		56		1	1363		
PCT	.1	.1	4.1	46.4	44.2	4.1	.9	.1	100.0	.1	99.9

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1
1-2	.2	2.3	.9	.0	.0	.0	3.4
3-4	.0	1.9	3.1	.0	.0	.0	5.0
5-6	.0	.6	2.2	.0	.0	.0	2.8
7	.0	.0	.6	.0	.0	.0	.6
8-9	.0	.0	.2	.2	.0	.0	.3
10-11	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	5.9	7.2	.2	.0	.0	13.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.	2.4	.9	.0	.0	.0	3.5
1-2	.7	13.8	6.1	.0	.0	.0	20.6
3-4	.9	7.8	17.6	.7	.0	.0	26.8
5-6	.0	2.0	10.8	1.4	.0	.0	14.2
7	.0	.5	4.1	1.1	.0	.0	5.7
8-9	.0	.0	2.3	.1	.0	.0	2.4
10-11	.0	.0	.7	.5	.0	.0	1.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.8	26.5	42.3	3.8	.0	.0	74.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.0	.0	.0	.0	.8
1-2	.0	2.0	.3	.0	.0	.0	2.3
3-4	.0	2.4	.4	.0	.0	.0	2.8
5-6	.2	.2	.9	.2	.0	.0	1.5
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	5.4	1.8	.2	.0	.0	7.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	.0	.1	.0	.0	.0	.0	.1
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.3	.3	.0	.0	.0	.6

PERIOD: (OVER-ALL) 1963-1973

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TABLE 18 (CONT)

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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.2	.0	.0	.0	.0	.2
3-4	.0	.2	.0	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.5	.0	.0	.0	.0	.5

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.5	.0	.0	.0	.0	.5
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.5	.0	.0	.0	.0	.5

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.3	.2	.0	.0	.0	.6	
3-4	.0	.1	.3	.0	.0	.0	.4	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.4	.0	.0	.0	.0	1.0	97.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.3	4.6	.9	.0	.0	.0	7.8	
1-2	.9	19.2	7.6	.0	.0	.0	27.7	
3-4	.9	12.4	21.3	.7	.0	.0	35.2	
5-6	.2	2.7	14.0	1.6	.0	.0	18.5	
7	.0	.5	5.0	1.1	.0	.0	6.6	
8-9	.0	.0	2.5	.2	.0	.0	2.7	
10-11	.0	.0	.9	.5	.0	.0	1.4	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.3	39.4	52.2	4.1	.0	.0	100.0	437

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	4.6	15.8	18.3	7.9	2.1	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	382	3
6-7	.1	1.8	8.2	9.7	4.6	2.2	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	214	5
8-9	.0	.0	2.4	2.7	3.5	1.2	1.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	87	6
10-11	.0	.6	.5	.5	1.0	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	6
12-13	.0	.0	.9	.3	.0	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	5
>13	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	7
INDET	2.6	1.0	1.5	.5	.6	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	52	3
TOTAL	57	150	248	168	92	35	22	4	1	0	0	0	0	0	0	0	0	0	0	777	4
PCT	7.3	19.3	31.9	21.6	11.8	4.5	2.8	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1967-1973

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	3.5	1.5	.2	.0	.0	.0	.0	5.2	2.3	.5	.2	.0	.5		.0	91.1
NE	1.7	.7	1.1	.0	.0	.0	.0	3.4	1.3	.5	.5	.0	.3		.0	94.1
E	.7	.6	.0	.0	.0	.0	.0	1.3	2.2	1.9	.0	.0	.0		.0	94.6
SE	1.6	.0	.0	.0	.0	.0	.0	1.6	2.0	.0	.0	.0	1.6		.0	94.9
S	2.4	.0	.0	.0	.0	.0	.0	2.4	2.4	.0	.0	.0	.0		.0	95.2
SW	3.5	.0	.0	.0	.0	.0	.0	3.5	3.5	7.0	.0	.0	.0		.0	86.0
W	21.1	.0	.0	.0	.0	.0	.0	21.1	.0	.0	0	.0	.0		.0	78.9
NW	7.1	4.5	.0	.0	.0	.0	.0	11.6	.9	1.8	.0	.0	.0		.0	85.7
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	1.2	1.2	1.2	.0	1.2		.0	94.2
TOT PCT	2.0	.8	.7	.0	.0	.0	.0	3.4	1.6	.8	.4	.0	.4		.0	93.5
TOT OBS:	1867															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00-03	2.0	.7	.7	.0	.0	.0	.0	3.3	2.0	.2	.4	.0	.4		.0	93.6
06-09	2.2	1.0	.6	.0	.0	.0	.0	3.7	1.8	.4	.2	.0	.6		.0	93.3
12-15	1.3	.3	.5	.0	.0	.0	.0	2.1	1.6	1.3	.3	.0	.3		.0	94.6
18-21	2.4	1.1	.8	.0	.0	.0	.0	4.0	.8	2.1	.5	.0	.0		.0	92.5
TOT PCT	2.0	.8	.6	.0	.0	.0	.0	3.3	1.6	.9	.4	.0	.4		.0	93.5
TOT OBS:	1701															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.3	10.1	2.4	.1	.0	.0		14.9	7.4	14.7	9.0	12.1	15.9	19.0	14.7	16.1	15.1
NE	4.5	32.3	15.1	.5	*	.0		52.3	8.9	52.4	48.4	37.2	52.3	52.1	57.5	50.7	43.7
E	2.2	10.1	1.5	.1	*	.0		13.9	6.7	14.5	22.0	15.1	12.6	10.6	14.5	11.5	16.4
SE	1.3	3.0	.2	.0	.0	.0		4.4	5.2	4.6	9.0	4.3	4.2	2.9	2.8	3.3	6.8
S	1.0	1.3	*	.0	.0	.0		2.4	4.6	2.1	3.5	2.0	2.6	1.9	3.6	2.5	3.1
SW	.5	1.3	.1	.0	.0	.0		1.8	5.6	2.0	3.1	1.3	3.1	1.5	2.0	1.6	1.4
W	.3	.7	.1	.0	.0	.0		1.2	6.0	1.3	1.7	1.5	1.8	.8	.0	.7	.8
NW	.4	1.3	.2	*	.0	.0		1.8	6.4	1.4	.3	1.5	1.1	2.7	2.4	1.8	3.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.2							7.2	.0	6.9	2.8	5.0	6.5	8.6	2.4	11.8	9.7
TOT OBS	985	1797	984	20	1	0	2987		7.3	506	144	665	371	455	124	422	300
TOT PCT	19.6	60.2	19.6	.7	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	7.4	7.0	.5	.0	.0		14.9	7.4	13.4	13.5	18.1	15.7
NE	18.1	31.3	2.8	.1	.0		52.3	8.9	51.5	55.4	53.3	47.8
E	8.0	5.6	.2	*	.0		13.9	6.7	16.2	14.2	11.4	13.5
SE	3.3	1.2	.0	.0	.0		4.4	5.2	5.6	4.3	2.9	4.8
S	1.8	.6	.0	.0	.0		2.4	4.6	2.4	2.2	2.2	2.8
SW	1.2	.6	.0	.0	.0		1.8	5.6	2.2	1.9	1.6	1.5
W	.9	.2	.1	.0	.0		1.2	6.0	1.4	1.6	.6	.7
NW	1.1	.6	*	.0	.0		1.8	6.4	1.2	1.4	2.7	2.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	7.2						7.2	.0	8.0	9.5	7.1	10.9
TOT OBS	1467	1406	110	4	0	2987		7.3	650	1038	579	722
TOT PCT	49.1	47.1	3.7	.1	.0		100.0		100.0	100.0	100.0	100.0

MARCH

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1867-1973

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	6.0	13.5	62.7	18.0	.2	.0	.0	7.1	100.0	650
06&09	5.5	12.4	59.	21.7	.8	.0	.0	7.7	100.0	1036
12&15	7.1	10.5	60.4	20.4	1.4	.2	.0	7.7	100.0	579
18&21	10.9	12.7	56.7	17.2	.4	.0	.0	6.8	100.0	722
TOT	216	369	1797	584	20	1	0	7.3		2987
PCT	7.2	12.4	60.2	19.6	.7	*	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.8	3.6	5.7	1.9		4.7
NE	10.3	18.1	23.4	5.6		4.6
E	3.2	4.0	5.2	1.1		4.3
SE	1.1	.7	1.2	.2		4.0
S	.5	.3	1.1	.2		4.8
SW	.4	.8	.4	.0		3.6
W	.0	.0	.1	.2		7.2
NW	.2	.1	.8	.4		5.9
VAR	.0	.0	.0	.0		.0
CALM	2.4	1.3	2.1	.4		3.6
TOT OBS	217	298	415	104	1034	4.5
TOT PCT	21.0	28.8	40.1	10.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 499	500 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.2	.8	1.2	.7	.1	.1	.0	.1	10.5	
NE	*	.2	.7	2.2	5.4	4.1	1.4	.4	.0	.0	42.9	
E	.1	.0	.1	.7	.8	.5	.3	.1	.0	.0	11.0	
SE	.0	.0	.0	.1	.2	.1	*	.0	.0	.0	2.8	
S	.0	.0	.0	.1	.2	.4	.0	.0	.0	.0	1.4	
SW	.0	.0	.0	.0	.1	.3	.0	.0	.0	.0	1.2	
W	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
NW	.0	.0	.1	.1	.3	.1	.0	.0	.0	.0	.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.3	.0	.5	.1	.0	.0	.0	5.3	
TOT OBS	1	2	6	52	88	69	21	6	0	1	788	1034
TOT PCT	.1	.2	.6	5.0	8.5	6.7	2.0	.6	.0	.1	76.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.1	.1	.1	.1	.1	.1	.1	.1
* OR >5000	.6	.7	.7	.7	.7	.7	.7	.7
* OR >3500	2.4	2.5	2.6	2.6	2.6	2.6	2.6	2.6
* OR >2000	7.6	8.9	9.3	9.3	9.3	9.3	9.3	9.3
* OR >1000	13.2	16.8	17.6	17.6	17.6	17.6	17.6	17.6
* OR >600	16.2	21.3	22.6	22.6	22.6	22.6	22.6	22.6
* OR >300	16.4	21.5	23.1	23.1	23.1	23.1	23.1	23.1
* OR >150	16.4	21.6	23.3	23.3	23.3	23.3	23.3	23.3
* OR > 0	16.4	21.7	23.4	23.4	23.4	23.4	23.4	23.4
TOTAL	174	230	248	248	248	248	248	248

TOTAL NUMBER OF OBS: 1059 PCT FREQ NH <5/8: 76.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
4.1	15.3	23.1	20.4	13.3	8.0	6.9	4.6	4.2	.1 1139

PERIOD: (PRIMARY) 1924-1973
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	NO PCP	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	*	.2	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	PCP	.1	.1	.0	.0	.0	.0	.0	.1	.0	.0	.2	
1<2	NO PCP	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.2	.2	.0	.0	.0	.0	.0	.1	.0	.0	.4	
	PCP	.3	.3	.0	.0	.0	.1	.1	.1	.0	.0	.8	
2<5	NO PCP	.1	1.1	.1	.0	.1	*	.0	.1	.0	.1	1.5	
	TOT %	.4	1.4	.1	.0	.1	.1	.1	.2	.0	.1	2.3	
	PCP	.3	.6	.2	.1	.0	.0	.1	.0	.0	.1	1.3	
5<10	NO PCP	2.0	7.4	1.4	.1	.3	*	.1	.1	.0	.1	11.5	
	TOT %	2.3	8.0	1.6	.2	.3	*	.2	.1	.0	.2	12.7	
	PCP	*	.7	*	.0	.1	.0	.0	*	.0	.0	.9	
10+	NO PCP	11.3	45.3	12.9	3.6	2.1	1.6	.3	1.3	.0	4.9	83.4	
	TOT %	11.4	46.0	12.9	3.6	2.2	1.6	.3	1.4	.0	4.9	84.3	
	TOT OBS												1666
	TOT PCT	14.2	55.7	14.6	3.8	2.5	1.7	.6	1.7	.0	5.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
<1/2	4-10	.0	.1	.0	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.0	*	.0	.0	.0	.0	.0	.0	.1	
	0-3	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
1/2<1	4-10	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	11-21	*	.1	*	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.1	.3	*	*	.0	.0	.0	.1	.0		.5	
	11-21	.1	*	.0	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.3	*	0	.0	.0	.0	.1	.0	.0	.7	
	0-3	.0	.0	*	.0	.1	*	.0	.0	.0	.1	.3	
2<5	4-10	.1	.7	.:	*	.0	*	.1	.1	.0		1.2	
	11-21	.2	.7	.0	.0	.0	.0	.0	.1	.0		1.0	
	22+	.1	*	.0	.0	.0	.0	.0	*	.0		.1	
	TOT %	.3	1.5	.2	*	.1	.1	.1	.1	.0	.1	2.5	
	0-3	.1	.4	.1	.0	.1	*	.0	.1	.0	.3	1.1	
5<10	4-10	1.1	3.1	1.0	.1	.1	.1	*	.1	.0		5.8	
	11-21	.8	3.2	.2	.0	.0	.0	.1	*	.0		4.3	
	22+	*	.1	.0	.0	.0	.0	.0	.0	.0		.1	
	TOT %	2.1	5.8	1.3	.1	.2	.1	.1	.2	.0	.3	11.3	
	0-3	1.8	3.7	2.0	1.2	.8	.9	.3	.3	.0	6.4	16.9	
10+	4-10	8.6	29.4	8.9	2.3	1.1	1.1	.3	1.1	.0		52.6	
	11-21	1.5	12.0	1.4	.1	*	.1	*	.1	.0		15.2	
	22+	*	.3	*	.0	.0	.0	.0	.0	.0		.4	
	TOT %	12.0	45.5	12.1	3.6	1.9	1.7	.6	1.5	.0	6.4	85.1	
	TOT OBS												2198
	TOT PCT	14.6	54.3	13.7	3.8	2.1	1.8	.8	1.9	.0	6.8	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	.3	3.4	6.8	6.5	1.7	.7	.0	.0	19.4	80.6	274
06E09	.3	.0	.3	5.5	6.4	7.0	2.1	.3	.0	.0	21.9	78.1	329
12E15	.0	.0	.4	7.3	7.3	6.9	2.8	1.2	.0	.0	26.0	74.0	246
18E21	.0	.8	1.2	2.8	11.7	4.5	.8	.0	.0	.4	22.3	77.7	247
TOT	1	2	6	53	88	70	21	6	0	1	248	868	1116
PCT	.1	.2	.5	4.7	7.9	6.3	1.9	.5	.0	.1	22.2	77.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.4	.2	.7	1.1	10.9	86.6	539
06E09	.1	.1	.3	2.6	10.9	86.0	700
12E15	.0	.2	1.1	2.3	12.5	83.9	472
18E21	.0	.4	.8	3.8	10.7	84.3	522
TOT	3	5	15	55	250	1905	2233
PCT	.1	.2	.7	2.5	11.2	85.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	.4	4.7	15.8	79.6	279
06E09	.3	.6	8.0	15.7	76.4	313
12E15	.0	.4	9.0	18.8	72.2	234
18E21	.0	2.1	8.6	17.6	73.8	233
TOT	1	9	79	178	802	1059
PCT	.1	.8	7.5	16.8	75.7	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
95/99	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
90/94	.0	.0	.0	.1	.5	.4	.3	.0	13	1.4
85/89	.0	.0	.0	.0	1.5	5.9	2.0	.0	86	9.4
80/84	.0	.0	.0	.0	1.2	22.2	39.7	6.9	643	70.0
75/79	.0	.0	.0	.0	.1	1.8	11.8	5.4	176	19.2
TOTAL	0	0	0	1	32	279	494	113	919	100.0
PCT	.0	.0	.0	.1	3.5	30.4	53.8	12.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
.0	1.2	.2	.0	.0	.0	.0	.0	.0	.0
.7	4.6	1.9	.6	.5	.2	.1	*	.0	.8
7.8	40.6	9.7	2.7	1.9	1.2	.1	1.1	.0	4.9
4.0	10.2	2.6	.2	.1	.0	.4	.6	.0	1.2
12.5	56.6	14.4	3.4	2.5	1.4	.5	1.7	.0	6.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	95	88	85	81	77	75	72	81.2	648
06E09	96	91	88	82	78	76	68	82.6	1015
12E15	91	87	84	81	77	75	73	81.1	582
18E21	86	84	83	81	77	76	74	80.4	726
TOT	96	90	86	81	78	75	68	81.4	2971

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	.4	21.5	65.6	12.6	84	247
06E09	.0	.4	11.0	50.0	33.1	5.5	78	272
12E15	.0	.0	.0	27.9	56.7	15.4	83	208
18E21	.0	.0	1.4	18.9	63.1	16.6	84	217
TOT	0	1	34	288	507	114	82	944

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA THP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	N FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
11/13	.0	.0	.0	.0	.1	.1	.1	4	.0	.3
9/10	.0	.0	.0	.0	.2	.4	.1	10	.0	.6
7/8	.0	.0	.1	.0	.7	.2	.1	18	.0	1.2
6	.0	.0	.0	.0	.5	.1	.0	10	.0	.6
5	.0	.0	.1	.8	1.4	.1	.0	38	.0	2.5
4	.0	.0	.1	2.7	1.4	.3	.0	69	.1	4.4
3	.0	.0	.3	1.1	1.4	.0	.0	43	.0	2.8
2	.0	.0	.8	8.3	2.0	.1	.0	173	.0	11.2
1	.0	.0	1.9	5.7	.3	.0	.0	122	.0	7.9
0	.0	.3	6.8	20.1	.7	.0	.0	432	.1	27.9
-1	.0	.0	4.3	6.5	.1	.0	.0	167	.1	10.7
-2	.0	.6	7.4	8.8	.1	.0	.0	261	.2	16.7
-3	.0	.3	2.8	2.4	.1	.0	.0	87	.0	5.6
-4	.1	.3	3.2	1.3	.0	.0	.0	74	.0	4.8
-5	.0	.1	1.2	.2	.0	.0	.0	23	.0	1.5
-6	.0	.0	.4	.0	.0	.0	.0	6	.0	.4
-7/-8	.0	.1	.1	.1	.0	.0	.0	6	.0	.4
-11/-13	.0	.0	.0	.1	.0	.0	.0	1	.0	.1
TOTAL	1	27	45	898	132	23	4	1545	6	1539
PCT	.1	1.7	29.4	58.1	8.9	1.5	.3	100.0	.4	99.6

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.8	.0	.0	.0	.0	1.2
1-2	.2	4.8	1.3	.0	.0	.0	6.3
3-4	.0	2.7	.9	.2	.0	.0	3.8
5-6	.0	.2	.4	.0	.0	.0	.6
7	.0	.0	.5	.2	.0	.0	.7
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	8.6	3.3	.3	.0	.0	12.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	4.2	.2	.0	.0	.0	4.9
1-2	1.1	16.4	8.7	.0	.0	.0	28.2
3-4	.9	6.8	7.2	.1	.0	.0	15.0
5-6	.0	1.6	4.8	.0	.0	.0	6.3
7	.0	.2	2.3	.0	.0	.0	2.5
8-9	.0	.0	.5	.0	.0	.0	.5
10-11	.0	.0	.2	.2	.1	.0	.5
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.5	31.2	24.0	.3	.1	.0	58.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	2.0	.0	.0	.0	.0	3.1
1-2	.0	5.4	.6	.0	.0	.0	6.0
3-4	.0	.5	.9	.0	.0	.0	1.4
5-6	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.2	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	7.9	2.2	.0	.2	.0	11.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.7	.0	.0	.0	.0	.9
1-2	.0	1.6	.0	.0	.0	.0	1.6
3-4	.0	.8	.1	.0	.0	.0	.8
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.0	.1	.0	.0	.0	3.3

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.6	.0	.0	.0	.0	.9
1-2	.4	1.0	.0	.0	.0	.0	1.4
3-4	.0	.4	.0	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	1.9	.0	.0	.0	.0	2.7

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.4	.0	.0	.0	.0	.8
1-2	.2	1.2	.2	.0	.0	.0	1.6
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	1.6	.2	.0	.0	.0	2.4

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.2	.0	.0	.0	.2
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.4	.0	.0	.0	.4

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.4	.0	.0	.0	.0	.4	
3-4	.0	.6	.1	.0	.0	.0	.6	
5-6	.0	.0	.1	.0	.0	.0	.1	
7	.0	.0	.0	.1	.0	.0	.1	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.0	.1	.1	.0	.0	1.2	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	11.6	8.6	.2	.0	.0	.0	20.4	
1-2	2.2	32.3	10.8	.0	.0	.0	45.3	
3-4	.9	11.6	9.2	.2	.0	.0	22.0	
5-6	.0	1.8	5.7	.0	.0	.0	7.5	
7	.0	.2	3.1	.2	.0	.0	3.5	
8-9	.0	.0	.7	.0	.0	.0	.7	
10-11	.0	.0	.2	.2	.2	.0	.7	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	14.7	54.5	29.9	.7	.2	.0	100.0	459

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	7.9	30.0	15.5	5.5	1.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	497	2
6-7	.0	2.9	4.8	3.7	2.2	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	134	4
8-9	.0	.2	.5	2.6	1.5	.6	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	49	6
10-11	.0	.0	.1	1.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	6
12-13	.0	.0	.1	.1	.1	.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	
INDET	10.7	2.4	1.6	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	125	1
TOTAL	153	292	185	125	48	11	6	1	0	0	0	0	0	0	0	0	0	0	0	821	3
PCT	18.6	35.6	22.5	15.2	5.8	1.3	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1857-1973

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3.6N 106.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	1.5	.0	.0	.0	.0	.0	1.5	4.8	1.0	.8	.0	.8	.0	.0	91.0
NE	.1	1.2	.2	.0	.0	.0	.0	1.5	.9	.6	.0	.0	.0	.2		96.8
E	.7	1.7	.3	.0	.0	.0	.0	2.7	1.7	.2	.2	.0	.0	.2		95.2
SE	1.0	1.4	.7	.0	.0	.0	.0	3.0	2.4	.7	.3	.0	.7	.0		93.6
S	1.5	.8	.0	.0	.0	.0	.0	2.3	4.8	4.2	.0	.0	.0	.0		88.7
SW	3.4	2.0	.0	.0	.0	.0	.0	5.4	.2	3.4	.0	.0	.0	.0		91.9
W	.0	7.2	.0	.0	.0	.0	.0	7.2	2.4	.0	.0	.0	.0	.0		90.4
NW	2.8	2.8	2.8	.0	.0	.0	.0	8.5	7.1	.0	.0	.0	2.8	.0		81.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.4	.0	.0	.0	.0	.4	.9	3.5	.0	.0	1.3	.0		93.9
TOT PCT	.7	1.4	.3	.0	.0	.0	.0	2.3	1.9	1.4	.1	.0	.4	.1		93.9
TOT OBS:	1628															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.9	.9	.2	.0	.0	.0	.0	2.1	2.1	.2	.0	.0	.2	.0		95.6
06&09	.4	1.2	.2	.0	.0	.0	.0	1.8	2.4	.2	.0	.0	.2	.2		95.4
12&15	.8	1.3	.3	.0	.0	.0	.0	2.3	2.0	1.5	.8	.0	.8	.0		92.7
18&21	.6	2.2	.6	.0	.0	.0	.0	3.4	.8	4.7	.0	.0	.3	.3		90.8
TOT PCT	.7	1.4	.3	.0	.0	.0	.0	2.3	1.9	1.5	.2	.0	.4	.1		93.8
TOT OBS:	1677															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.6	5.3	.8	*	.0	.0		7.7	6.1	6.5	6.6	6.4	10.2	8.7	7.5	7.6	8.7
NE	4.7	18.1	5.0	.1	.0	.0		27.9	7.2	29.7	30.4	27.2	25.7	29.9	31.9	26.5	24.6
E	3.9	11.6	1.8	.1	*	.0		17.4	6.2	16.6	23.0	20.9	14.5	14.4	26.1	15.7	14.6
SE	3.0	5.6	.4	.1	.0	.0		9.1	5.0	10.6	12.8	10.5	8.5	8.5	6.9	6.3	8.3
S	3.1	5.1	.3	.0	.0	.0		8.5	4.8	8.8	9.0	8.1	8.6	7.1	6.9	9.3	10.1
SW	2.6	4.0	.4	.1	.0	.0		7.1	5.3	6.1	8.2	6.7	9.4	8.1	6.5	6.6	5.9
W	.8	2.3	.2	*	.0	.0		3.3	5.7	3.1	2.0	3.4	4.8	2.0	5.6	2.4	4.5
NW	.7	1.6	.1	.0	.0	.0		2.5	5.3	2.7	.0	2.6	2.8	3.2	1.7	2.5	2.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	16.5							16.5	.0	15.9	7.9	14.3	15.5	18.1	6.9	23.2	21.1
TOT OBS	1050	1525	255	10	1	0	2841		5.1	441	152	672	330	454	116	296	280
TOT PCT	37.0	53.7	9.0	.4	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	5.2	2.3	.2	.0	.0		7.7	6.1	6.5	7.6	8.5	8.1
NE	15.0	11.9	1.0	.0	.0		27.9	7.2	29.9	26.7	30.3	25.7
E	11.5	5.6	.3	.0	*		17.4	6.2	18.3	18.8	16.8	15.2
SE	7.2	1.8	.1	.0	.0		9.1	5.0	11.2	9.8	8.2	7.1
S	6.8	1.7	*	.0	.0		8.5	4.8	8.9	8.3	7.1	9.6
SW	5.2	1.7	.2	.0	.0		7.1	5.3	6.7	7.6	7.8	6.3
W	2.4	.8	.1	.0	.0		3.3	5.7	2.8	3.9	2.8	3.3
NW	1.8	.7	*	.0	.0		2.5	5.3	2.0	2.7	2.9	2.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	16.5						16.5	.0	13.8	14.7	15.8	22.3
TOT OBS	2035	752	53	0	1	2841		5.1	593	1002	570	676
TOT PCT	71.6	26.5	1.9	.0	*		100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1857-1973

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	13.8	22.1	55.6	8.3	.2	.0	.0	5.2	100.0	593
06&09	14.7	20.9	54.9	9.1	.4	.1	.0	5.3	100.0	1002
12&15	15.8	20.7	52.1	10.9	.5	.0	.0	5.2	100.0	570
18&21	22.3	16.0	51.5	7.8	.3	.0	.0	4.8	100.0	676
TOT	470	580	1525	255	10	1	0	5.1		2841
PCT	16.5	20.4	53.7	9.0	.4	*	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.6	2.5	2.9	.8		4.5
NE	8.7	11.5	10.8	1.2		3.9
E	5.0	7.5	5.4	1.0		3.8
SE	1.5	2.9	3.3	.9		4.5
S	1.8	2.1	2.2	.8		4.2
SW	1.2	1.3	2.5	.9		4.7
W	.3	.8	.8	.3		4.8
NW	.4	.3	1.1	.6		5.5
VAR	.0	.0	.0	.0		.0
CALM	5.5	5.1	3.7	.9		3.4
TOT OBS	264	347	334	75	1020	4.0
TOT PCT	25.9	34.0	32.7	7.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT)NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.2	1.0	.5	.0	.0	.0	.0	6.1	
NE	.0	.1	.1	1.0	1.9	.9	.1	.0	.0	.1	27.8	
E	.0	.1	.1	.3	.3	.6	.0	.2	.0	.0	17.3	
SE	.1	.0	.0	.7	.6	.2	.3	*	.0	.1	6.4	
S	.0	.0	.0	.3	.9	.4	.0	.0	.0	.0	5.2	
SW	.0	.0	.0	.5	.8	*	.1	.0	.0	.0	4.5	
W	.0	.0	.0	.0	.3	.1	.0	.0	.0	.0	1.9	
NW	.0	.0	.0	.0	.3	.6	.0	.0	.0	.0	1.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.3	.0	.0	.2	.8	.5	.2	.0	.0	.0	13.3	
TOT OBS	1	2	2	32	72	40	7	2	0	2	860	1020
TOT PCT	.1	.2	.2	3.1	7.1	3.9	.7	.2	.0	.2	84.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.1	.2	.2	.2	.2	.2	.2	.2
* OR >5000	.3	.4	.4	.4	.4	.4	.4	.4
* OR >3500	.8	1.1	1.1	1.1	1.1	1.1	1.1	1.1
* OR >2000	3.8	4.8	4.9	4.9	4.9	4.9	4.9	4.9
* OR >1000	9.5	11.5	11.8	11.8	11.8	11.9	12.0	12.0
* OR >600	11.4	14.4	14.9	14.9	14.9	15.0	15.1	15.1
* OR >300	11.6	14.6	15.1	15.1	15.1	15.2	15.3	15.3
* OR >150	11.7	14.7	15.3	15.3	15.3	15.4	15.5	15.5
* OR > 0	11.7	14.7	15.3	15.3	15.4	15.5	15.5	15.5
TOTAL	122	153	159	159	160	161	162	162

TOTAL NUMBER OF OBS: 1042 PCT FREQ NH <5/8: 84.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
5.0	16.8	26.8	22.7	13.4	6.9	4.4	1.9	2.7	.1	1151

PERIOD: (PRIMARY) 1924-1973
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	NO PCP	*	*	.0	.1	.0	.0	.0	.0	.0	.1	.2	
	TOT %	*	*	.0	.1	.0	.0	.0	.0	.0	.1	.2	
	PCP	*	.1	*	.0	*	.2	.1	.0	.0	.0	.4	
2<5	NO PCP	.0	.2	.1	*	.1	.1	.0	.1	.0	.1	.6	
	TOT %	*	.3	.1	*	.1	.2	.1	.1	.0	.1	1.0	
	PCP	.0	.2	.2	.2	.2	.1	.1	.1	.0	.0	1.0	
5<10	NO PCP	1.0	3.2	1.4	.7	.7	.5	.3	.1	.0	1.0	9.0	
	TOT %	1.0	3.4	1.6	.8	.8	.6	.4	.3	.0	1.0	10.0	
	PCP	.0	.2	.2	.1	.0	.1	*	.1	.0	.1	.7	
10+	NO PCP	6.2	27.9	16.6	9.0	7.1	5.4	2.1	1.8	.0	12.7	87.9	
	TOT %	6.2	28.1	16.8	8.1	7.1	5.4	2.1	1.9	.0	12.9	88.6	
	TOT OBS												1625
	TOT PCT	7.4	31.9	18.6	9.1	8.0	6.3	2.6	2.2	.0	14.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	*	.0	.0	.0	.0	.0	.0	.0	.0		*	
	22+	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	TOT %	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.1	
	0-3	.0	.0	.0	*	.0	.0	.0	.0	.0	*	.1	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	*	.1	
	0-3	.0	.0	.0	*	.0	.0	.0	.0	.0	*	.1	
1<2	4-10	*	*	.0	.0	.0	.0	*	*	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	.0	*	.0	.0	*	*	.0	*	.2	
	0-3	.1	.1	.1	*	.0	*	.0	*	.0	*	.4	
2<5	4-10	*	.2	.1	.0	.1	1	.2	*	.0		.6	
	11-21	.0	.2	.0	.0	.0		.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0		.0	.0	.0		.0	
	TOT %	.1	.4	.2	*	.1		.2	.1	.0	*	1.3	
	0-3	.2	.3	.3	.2	.4	.2	.1	.0	.0	.9	2.6	
5<10	4-10	.5	1.8	.7	.3	.4	.3	.2	.2	.0		4.5	
	11-21	.1	.6	.3	.1	*	.0	.0	*	.0		1.2	
	22+	.0	.0	*	*	.0	.0	.0	.0	.0		.1	
	TOT %	.8	2.8	1.3	.7	.8	.5	.3	.2	.0	.9	8.4	
	0-3	1.4	4.2	3.4	2.3	2.6	2.3	.6	.6	.0	15.7	32.0	
10+	4-10	4.4	17.4	10.9	5.4	4.9	3.6	1.6	1.4	.0		49.4	
	11-21	.5	4.1	1.8	.3	.2	.4	.1	.1	.0		7.4	
	22+	.0	.1	.0	.0	.0	.0	.0	.0	.0		.1	
	TOT %	6.2	25.7	16.1	8.1	7.7	6.1	2.2	2.1	.0	15.7	89.9	
	TOT OBS												2124
	TOT PCT	7.2	28.9	17.6	9.0	8.5	6.8	2.7	2.9	.0	16.8	100.0	

APRIL

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1957-1973

AREA 0006 MATUNA ISLAND
3.6N 106.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00Z03	.0	.4	.0	2.5	7.5	2.1	1.1	.7	.0	.0	14.2	85.8	281
06Z09	.3	.0	.0	1.7	8.2	3.9	.3	.0	.0	.0	14.4	85.6	355
12Z15	.0	.4	.7	4.0	5.9	4.4	.4	.0	.0	.4	16.2	83.8	272
18Z21	.0	.0	.0	3.5	3.9	3.5	.9	.0	.0	.4	12.3	87.7	228
TOT	1	2	2	32	75	40	7	2	0	2	163	973	1136
PCT	.1	.2	.2	2.8	6.6	3.5	.6	.2	.0	.2	14.3	85.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00Z03	.0	.0	.2	1.4	6.4	92.1	5,6
06Z09	.3	.3	.1	1.4	5.1	92.8	69J
12Z15	.0	.2	.4	1.3	11.6	86.5	467
18Z21	.0	.0	.0	1.0	11.6	87.4	499
TOT	2	3	4	28	100	1957	2174
PCT	.1	.1	.2	1.3	8.3	90.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00Z03	.0	.4	3.1	12.0	84.9	258
06Z09	.3	.9	3.3	12.0	84.7	333
12Z15	.0	1.2	6.9	11.8	81.3	246
18Z21	.0	.0	4.9	9.8	85.4	205
TOT	1	7	46	120	876	1042
PCT	.1	.7	4.4	11.5	84.1	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 OBS	PCT FREQ
90 94	.0	.0	.1	.3	1.3	.6	.0	.0	22	2.3
85/89	.0	.0	.0	.0	3.4	15.1	2.4	.6	203	21.5
80/84	.0	.0	.0	.0	1.4	31.6	34.0	5.7	669	72.7
75/79	.0	.0	.0	.0	.0	.3	1.7	1.4	32	3.4
TOTAL	0	0	1	3	57	449	359	73	942	100.0
PCT	.0	.0	.1	.3	6.1	47.7	38.1	7.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.1	.8	.6	.1	.2	.1	.2	.0	.0	.2
	1.3	5.6	4.5	2.4	1.6	1.9	.4	.3	.0	3.6
	5.6	23.5	13.8	5.6	5.3	4.3	1.5	1.5	.0	11.8
	.4	1.0	.5	.1	.3	.4	.1	.2	.0	.4
	7.4	30.9	19.3	8.3	7.1	6.7	2.2	2.0	.0	16.0

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00Z03	93	90	87	83	80	77	72	82.9	599
06Z09	97	91	89	84	80	77	68	84.5	995
12Z15	96	88	86	83	80	78	76	82.9	573
18Z21	88	84	85	82	79	77	73	82.0	687
TOT	97	90	88	83	80	77	68	83.3	2854

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00Z03	.0	.0	2.9	37.5	49.6	10.0	81	240
06Z09	.0	1.3	15.3	60.3	19.3	3.7	75	300
12Z15	.0	.0	3.1	50.0	38.6	8.3	80	228
18Z21	.0	.0	1.0	36.4	53.1	9.6	82	209
TOT	0	4	62	461	376	74	79	977

APRIL

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1857-1973

AREA 0006 NATUNA ISLAND
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
9/10	.0	.0	.0	.1	.1	.1	.1	6	.0	.4
7/8	.0	.0	.0	.3	.3	.4	.1	17	.0	1.1
6	.0	.0	.0	.1	.3	.5	.0	15	.0	1.0
5	.0	.0	.0	.5	.6	.8	.0	26	.0	1.7
4	.0	.0	.0	1.1	2.0	.6	.0	57	.0	3.7
3	.0	.0	.0	.3	1.7	.5	.0	36	.0	2.3
2	.0	.0	.1	3.1	4.6	.1	.0	155	.0	9.9
1	.0	.0	.0	3.4	2.1	.1	.0	87	.0	5.6
0	.0	.0	.6	17.9	4.7	.1	.0	363	.1	23.2
-1	.0	.0	.4	10.0	2.1	.0	.0	196	.0	12.6
-2	.0	.1	1.1	17.1	1.3	.0	.0	306	.0	19.6
-3	.0	.0	.8	4.7	.4	.0	.0	93	.1	5.9
-4	.0	.1	1.3	5.3	.3	.0	.0	107	.0	6.9
-5	.0	.2	.8	3.0	.0	.0	.0	62	.0	4.0
-6	.0	.0	.6	.4	.0	.0	.0	17	.0	1.1
-7/-8	.0	.1	.4	.1	.0	.0	.0	11	.0	.7
-9/-10	.0	.1	.1	.1	.0	.0	.0	3	.0	.2
-11/-13	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	1		99		320		3		3	1556
		9		1084		43		1559		
PCT	.1	.6	6.4	69.5	20.5	2.8	.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)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.6	.0	.0	.0	.0	1.6
1-2	.4	2.2	.8	.0	.0	.0	3.1
3-4	.0	.5	.8	.0	.0	.0	1.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.2	1.6	.0	.0	.0	6.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	3.8	.6	.0	.0	.0	5.6
1-2	1.8	11.7	3.2	.0	.0	.0	16.7
3-4	.9	5.8	3.3	.2	.0	.0	9.6
5-6	.0	.2	.9	.2	.0	.0	1.3
7	.0	.0	.3	.0	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.2	21.5	8.3	.4	.0	.0	33.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.8	3.2	.0	.0	.0	.0	4.9
1-2	1.5	11.4	1.1	.0	.0	.0	14.0
3-4	.0	2.3	2.2	.0	.0	.0	4.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.2	16.9	3.4	.0	.0	.0	23.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	.8	.0	.0	.0	.0	1.9
1-2	.4	2.6	.4	.0	.0	.0	3.5
3-4	.0	.7	.9	.0	.0	.0	1.6
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	4.1	1.3	.0	.0	.0	7.0

PERIOD: (OVER-ALL) 1963-1973 APRIL AREA 0006 NATUNA ISLAND

TABLE 18 (CONT) 3.6N 106.9E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.2	.0	.0	.0	.0	1.8
1-2	.5	1.3	.2	.0	.0	.0	2.0
3-4	.0	.2	.0	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	2.7	.2	.0	.0	.0	4.0

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.8	.0	.0	.0	.0	1.1
1-2	.1	2.0	.1	.0	.0	.0	2.2
3-4	.1	.4	.4	.0	.0	.0	.9
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	3.2	.5	.0	.0	.0	4.1

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.2	.0	.0	.0	.0	.5
1-2	.0	.8	.0	.0	.0	.0	.8
3-4	.2	.6	.0	.0	.0	.0	.8
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	1.6	.2	.0	.0	.0	2.3

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.2	.5	.3	.0	.0	.0	1.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.6	.3	.0	.0	.0	1.1

HGT	TOTAL PCT
<1	
1-2	
3-4	
5-6	
7	
8-9	
10-11	
12	
13-16	
17-19	
20-22	
23-25	
26-32	
33-40	
41-48	
49-60	
61-70	
71-86	
87+	
TOT PCT	81.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	24.7	11.4	.6	.0	.0	.0	36.7	
1-2	9.3	31.9	5.7	.0	.0	.0	42.8	
3-4	.4	10.3	7.4	.2	.0	.0	18.4	
5-6	.0	.2	1.1	.2	.0	.0	1.5	
7	.0	.0	.6	.0	.0	.0	.6	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	30.4	53.8	15.4	.4	.0	.0	100.0	474

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	11.4	20.7	12.7	1.8	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	462	2
6-7	.5	1.7	4.8	2.3	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	83	3
8-9	.0	1.1	1.8	1.1	.1	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	36	4
10-11	.0	.4	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	5
12-13	.0	.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	6
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	22.7	4.2	1.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	230	0
TOTAL	283	303	170	45	13	3	0	1	1	0	0	0	0	0	0	0	0	0	0	819	2
PCT	34.6	37.0	20.8	5.5	1.6	.4	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1922-1972
(OVER-ALL) 1856-1972

AREA 0006 NATUNA ISLAND
3.6N 106.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	4.2	1.4	.0	.0	.0	.0	.0	5.6	3.1	1.4	1.4	.0	.0	.0	.0	88.5
NE	5.6	1.5	1.0	.0	.0	.0	.0	7.1	4.5	2.0	.0	.0	.0	.0	.0	86.4
E	.4	1.2	.0	.0	.0	.0	.0	1.6	3.8	.6	.0	.0	.0	.0	.0	94.0
SE	3.8	1.1	.0	.0	.0	.0	.0	4.9	.7	4.6	.0	.0	.0	.0	.0	89.8
S	.9	.9	.7	.0	.0	.0	.0	2.2	1.5	4.5	.0	.0	.2	.0	.0	91.6
SW	2.5	3.7	.7	.0	.0	.0	.0	6.8	4.9	4.5	.0	.0	.0	.0	.0	83.8
W	6.0	3.9	4.1	.0	.0	.0	.0	13.9	3.4	5.6	.0	.0	.0	.0	.0	77.9
NW	5.4	4.7	.0	.0	.0	.0	.0	10.1	8.6	3.5	.0	.0	.0	.0	.0	79.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.0	.0	.0	.0	.0	.0	.0	.0	1.0	5.4	.5	.0	1.0	.0	.0	91.2
TOT PCT	2.5	1.9	.7	.0	.0	.0	.0	4.9	3.0	4.1	.1	.0	.2	.0	.0	87.8
TOT OBS:	1645															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.2	2.0	1.3	.0	.0	.0	.0	5.1	2.7	1.1	.0	.0	.0	.0	.0	91.1
06&09	2.2	3.3	.0	.0	.0	.0	.0	5.5	4.3	.4	.0	.0	.2	.0	.0	89.6
12&15	2.8	.8	1.0	.0	.0	.0	.0	4.6	1.8	4.9	.3	.0	.0	.0	.0	88.5
18&21	2.5	1.4	.3	.0	.0	.0	.0	4.1	2.5	12.1	.3	.0	.6	.0	.0	81.0
TOT PCT	2.4	2.0	.7	.0	.0	.0	.0	4.9	2.9	4.1	.1	.0	.2	.0	.0	87.9
TOT OBS:	1692															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.6	2.4	.2	.0	.0	.0		4.2	4.9	3.7	4.9	4.2	4.3	5.0	4.4	4.1	3.5
NE	2.0	3.7	.3	*	.0	.0		6.0	5.2	7.3	4.9	5.5	6.2	6.1	5.6	5.2	6.5
E	2.2	4.7	.2	.0	.0	.0		7.2	5.1	6.7	7.8	8.4	7.4	7.6	8.5	5.8	5.4
SE	2.8	7.1	.6	.0	.0	.0		10.5	5.6	9.8	14.0	11.5	10.7	10.3	9.5	9.1	10.3
S	4.8	17.5	3.1	.0	.0	.0		25.4	6.6	26.8	31.6	25.3	26.7	20.8	26.6	23.9	27.2
SW	3.9	16.2	3.4	*	.0	.0		23.6	7.2	23.4	21.2	23.2	25.8	22.8	23.2	25.2	22.5
W	1.6	3.5	1.1	.1	.0	.0		6.3	6.9	5.4	7.6	6.8	5.7	7.3	6.0	5.4	6.7
NW	1.2	2.3	.9	*	.0	.0		3.9	6.2	3.6	4.9	3.3	5.2	4.5	4.0	3.1	4.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	12.9							12.9	.0	13.4	3.0	11.9	8.0	15.4	12.1	18.1	13.8
TOT OBS	977	1697	276	6	0	0	2956		5.5	501	132	680	348	448	124	398	325
TOT PCT	33.1	57.4	9.3	.2	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.3	.9	*	.0	.0		4.2	4.9	3.9	4.2	4.9	3.8
NE	4.6	1.3	.1	.0	.0		6.0	5.2	6.8	5.7	6.0	5.8
E	5.6	1.6	.0	.0	.0		7.2	5.1	6.9	8.0	7.8	5.6
SE	7.2	3.3	.0	.0	.0		10.5	5.6	10.7	11.3	10.1	9.6
S	14.5	10.6	.3	.0	.0		25.4	6.6	27.8	25.8	22.1	25.4
SW	12.1	10.8	.7	.0	.0		23.6	7.2	22.9	24.1	22.9	24.0
W	3.9	2.1	.3	*	.0		6.3	6.9	5.8	6.4	7.0	6.0
NW	2.5	1.4	.1	.0	.0		3.9	6.2	3.9	4.0	4.4	3.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	12.9						12.9	.0	11.2	10.6	14.7	16.2
TOT OBS	1967	940	48	1	0	2956		5.5	693	1028	572	723
TOT PCT	66.5	31.8	1.6	*	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1922-1972
(OVER-ALL) 1856-1972

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	11.2	19.4	57.3	11.8	.2	.0	.0	5.8	100.0	633
06&09	10.6	20.8	57.8	10.8	.0	.0	.0	5.8	100.0	1028
12&15	14.7	21.0	57.3	7.0	.0	.0	.0	5.1	100.0	572
18&21	16.2	19.2	57.0	6.9	.7	.0	.0	5.3	100.0	723
TOT	381	596	1697	276	6	0	0	5.5		2956
PCT	12.9	20.2	57.4	9.3	.2	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.7	1.0	1.4	.6		4.6
NE	1.0	2.3	1.9	1.0		4.6
E	1.1	3.4	2.9	.2		4.2
SE	1.6	2.4	5.2	1.2		4.9
S	3.5	7.6	10.7	3.0		4.8
SW	2.7	9.7	10.7	4.7		5.3
W	.7	1.3	3.4	1.4		5.6
NW	.4	.5	1.1	.8		5.6
VAR	.0	.0	.0	.0		.0
CALM	4.5	5.7	4.5	.8		3.8
TOT OBS	167	285	429	141	1022	4.8
TOT PCT	16.3	27.9	42.0	13.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NM >4/8) AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.5	.1	.0	.0	.0	.0	3.2	
NE	.0	.0	.3	.1	.7	.3	.0	.0	.0	.0	4.7	
E	.0	.0	.0	.2	.2	.1	.3	.1	.0	.1	6.8	
SE	.2	.0	.0	.6	.9	.4	.0	.1	.1	*	8.1	
S	.0	.0	.2	.5	3.4	1.0	.2	.0	.0	.1	19.6	
SW	.0	.0	.3	1.3	3.5	1.4	.5	.1	.0	.0	16.2	
W	.0	.6	.1	.8	1.3	.2	.2	.0	.0	.0	4.3	
NW	.0	.0	.3	*	.5	.3	.1	.0	.0	.0	1.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.4	.6	.8	.6	.1	.4	.0	.2	10.5	
TOT OBS	2	0	16	48	120	44	14	7	1	5	765	1022
TOT PCT	.2	.0	1.6	4.7	11.7	4.3	1.4	.7	.1	.5	74.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NM >6/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.6	.6	.6	.6	.6	.6	.6	.6
* OR >5000	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.2
* OR >3500	2.2	2.6	2.7	2.7	2.7	2.7	2.7	2.7
* OR >2000	6.0	6.8	7.0	7.0	7.0	7.0	7.0	7.0
* OR >1000	14.0	17.3	18.4	18.5	18.5	18.5	18.5	18.5
* OR >600	17.3	21.5	22.7	22.9	22.9	22.9	23.0	23.1
* OR >300	18.1	22.8	24.4	24.5	24.5	24.5	24.6	24.7
* OR >150	18.1	22.9	24.5	24.6	24.6	24.6	24.7	24.8
* OR > 0	18.2	23.0	24.5	24.8	24.8	24.8	24.9	25.0
TOTAL	192	243	259	262	262	262	263	264

TOTAL NUMBER OF OBS: 1055

PCT FREQ NM <5/8: 75.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
9.1	13.8	23.0	20.5	13.8	8.7	6.7	4.8	5.7 .1	1154

PERIOD: (PRIMARY) 1922-1972
(OVER-ALL) 1856-1972

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.1	
	NO PCP	*	.0	.0	.0	.0	.0	.0	*	.0	.0	.1	
	TOT %	*	.0	.0	.0	.0	.0	.0	.1	.0	.1	.2	
1<2	PCP	.0	.0	.0	.1	*	*	.1	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.2	*	*	.1	.0	.0	.0	.4	
2<5	PCP	.1	.1	.1	*	.1	.3	.4	*	.0	.0	1.1	
	NO PCP	*	.1	*	.1	.2	.6	.1	.1	.0	.1	1.4	
	TOT %	.1	.3	.1	.1	.3	.9	.5	.1	.0	.1	2.5	
5<10	PCP	.1	.1	.1	.1	.2	.5	.2	.2	.0	.0	1.5	
	NO PCP	.5	.6	.8	1.0	2.4	2.5	1.0	.6	.0	1.2	10.6	
	TOT %	.6	.7	.9	1.2	2.7	3.0	1.1	.7	.0	1.2	12.2	
10+	PCP	.1	.2	.0	.2	.2	.5	.4	.1	.0	.1	1.8	
	NO PCP	9.5	4.8	6.6	9.1	21.7	18.2	4.9	2.6	.0	11.1	82.9	
	TOT %	9.6	5.0	6.6	9.4	21.9	18.8	5.3	2.9	.0	11.1	84.6	
	TOT OBS												1645
	TOT PCT	4.4	6.0	7.6	10.9	24.9	22.9	7.1	3.0	.0	12.4	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	*	
	4-10	.0	.0	*	*	*	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.1	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	*	*	.1	.1	.0	.0	.0	.0	.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	*	.0	.0	.0	.0	.0	.0	*	.0		*	
	11-21	.0	.0	.0	.0	.0	.0	.0	*	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.0	.0	.0	.0	.0	.0	.1	.0	*	.1	
1<2	0-3	.0	.0	.0	*	*	*	*	.0	.0	.0	.1	
	4-10	.0	.0	*	.1	.1	*	*	.0	.0		.4	
	11-21	.0	.0	.0	*	.0	.0	*	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	*	.2	.2	.1	.1	.0	.0	.0	.6	
2<5	0-3	.0	*	.0	.0	.1	.3	.1	*	.0	.1	.7	
	4-10	.1	.1	.2	.1	.3	.5	.2	.0	.0		1.5	
	11-21	.0	*	.0	.0	.1	.1	.2	*	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	*	*	.0		*	
	TOT %	.1	.2	.2	.1	.4	.9	.5	.1	.0	.1	2.6	
5<10	0-3	.2	.3	.3	.3	.3	.4	.3	.1	.0	1.1	3.3	
	4-10	.2	.3	.4	.6	1.6	1.6	.5	.3	.0		5.5	
	11-21	.1	.0	.0	*	.4	.5	.3	.2	.0		1.5	
	22+	.0	.0	.0	.0	.0	.0	*	.0	.0		*	
	TOT %	.5	.6	.7	.9	2.3	2.5	1.0	.6	.0	1.1	10.3	
10+	0-3	1.3	1.5	1.9	2.5	3.1	2.7	1.2	.9	.0	12.0	27.2	
	4-10	2.0	2.8	4.6	6.2	16.4	14.3	3.1	1.9	.0		51.2	
	11-21	.0	.1	.2	.6	3.0	3.1	.7	.1	.0		7.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	3.4	4.4	6.7	9.2	22.5	20.0	5.0	2.8	.0	12.0	86.1	
	TOT OBS												2136
	TOT PCT	4.0	5.2	7.7	10.5	25.5	23.6	6.7	3.6	.0	13.2	100.0	

MAY

PERIOD: (PRIMARY) 1922-1972
(OVER-ALL) 1856-1972

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00Z03	.0	.3	1.0	5.6	10.8	3.0	.7	1.3	.3	.0	23.0	77.0	305
06Z09	.6	.0	2.1	3.9	12.9	4.2	2.4	.6	.0	.0	26.6	73.4	334
12Z15	.0	.0	1.6	3.1	10.1	5.8	1.2	.0	.0	.8	22.5	77.5	258
18Z21	.0	.0	1.4	5.0	8.6	3.6	.9	.5	.0	1.4	21.2	78.8	222
TOT	2	1	17	49	121	46	15	7	1	5	264	855	1119
PCT	.2	.1	1.5	4.4	10.8	4.1	1.3	.6	.1	.4	23.6	76.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00Z03	.2	.0	.6	2.3	6.8	90.1	527
06Z09	.1	.1	.4	2.5	7.5	89.3	682
12Z15	.4	.4	.8	4.0	13.6	80.7	471
18Z21	.4	.0	.6	1.8	14.5	82.7	504
TOT	6	3	13	57	224	1881	2184
PCT	.3	.1	.6	2.6	10.3	86.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00Z03	.0	1.4	9.7	14.9	75.4	289
06Z09	.6	3.2	9.6	20.1	70.3	313
12Z15	.4	2.0	7.4	18.4	74.2	244
18Z21	.0	1.4	7.2	15.3	77.5	209
TOT	3	22	91	183	781	1055
PCT	.3	2.1	8.6	17.3	74.0	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	.1	1.7	.8	.2	.1	28	2.9
85/89	.0	.0	.0	.1	3.4	22.3	8.1	.8	335	34.7
80/84	.0	.0	.0	.0	1.1	20.0	33.1	6.2	583	60.4
75/79	.0	.0	.0	.0	.0	.1	.8	1.0	19	2.0
TOTAL	0	0	0	2	60	417	407	79	965	100.0
PCT	.0	.0	.0	.2	6.2	43.2	42.2	8.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.1	.4	.4	.5	.5	.2	*	.0	.6
.8	2.2	3.0	3.8	10.2	7.3	2.3	.6	.0	4.4
2.2	3.6	4.1	5.7	15.2	15.4	4.3	1.9	.0	8.0
.1	.1	.0	.0	.1	.8	.3	.3	.0	.2
3.2	6.0	7.6	9.9	26.0	24.0	7.1	2.9	.0	13.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00Z03	97	91	88	84	80	77	75	83.7	632
06Z09	95	91	90	85	80	78	75	85.1	1011
12Z15	97	90	87	84	80	75	73	83.6	568
18Z21	88	86	85	83	80	76	73	82.8	724
TOT	97	91	88	84	80	77	73	84.0	2935

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00Z03	.0	.0	4.3	38.8	48.2	8.7	81	276
06Z09	.0	.7	15.2	53.4	24.5	6.2	77	290
12Z15	.0	.0	1.8	43.8	46.0	8.4	81	226
18Z21	.0	.0	1.9	32.5	55.5	10.0	82	209
TOT	0	2	64	429	424	82	80	1001

PERIOD: (PRIMARY) 1922-1972
(OVER-ALL) 1856-1972

AREA 0006 NATUNA ISLAND
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.1	.1	.1	4	.0	.3
7/8	.0	.0	.1	.1	.3	.1	10	.0	.6
6	.0	.0	.0	.0	.3	.0	4	.0	.3
5	.0	.0	.1	.2	1.0	.0	21	.0	1.3
4	.0	.0	.4	1.2	1.3	.0	47	.0	3.0
3	.0	.1	.2	.8	.5	.0	25	.0	1.6
2	.0	.0	3.1	4.1	.8	.0	142	.0	9.0
1	.0	.0	1.2	4.7	.1	.0	94	.0	6.0
0	.2	.2	13.2	8.9	.1	.0	344	.1	21.8
-1	.0	.1	6.7	4.9	.1	.0	184	.0	11.7
-2	.1	.6	16.4	2.7	.0	.0	311	.1	19.7
-3	.0	.3	5.9	.6	.0	.0	108	.0	6.9
-4	.1	.9	8.3	.4	.0	.0	154	.0	9.8
-5	.2	1.3	2.7	.2	.0	.0	70	.0	4.5
-6	.1	.3	1.0	.1	.0	.0	23	.0	1.5
-7/-8	.2	.6	.4	.0	.0	.0	19	.0	1.2
-9/-10	.1	.2	.3	.0	.0	.0	9	.0	.6
-11/-13	.1	.1	.1	.0	.0	.0	3	.0	.2
TOTAL	16	74	946	463	71	3	1573	2	1571
PCT	1.0	4.7	60.1	29.4	4.5	.2	100.0	.1	99.9

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.7	.0	.0	.0	.0	1.0
1-2	.4	1.1	.0	.0	.0	.0	1.4
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	1.7	.0	.0	.0	.0	2.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	.4	.0	.0	.0	.0	1.6
1-2	.3	1.7	.0	.0	.0	.0	2.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.2	.0	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	2.3	.0	.0	.0	.0	3.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	1.1	.0	.0	.0	.0	2.0
1-2	.2	2.2	.2	.0	.0	.0	2.6
3-4	.0	.4	.2	.0	.0	.0	.7
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	3.8	.7	.0	.0	.0	5.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.2	.0	.0	.0	.0	1.7
1-2	.0	3.5	.5	.0	.0	.0	4.0
3-4	.0	1.0	.5	.0	.0	.0	1.6
5-6	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	5.6	1.0	.0	.0	.0	7.2

PERIOD: (OVER-ALL) 1963-1972 MAY AREA 0006 NATUNA ISLAND 3.9N 106.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	4.5	.2	.0	.0	.0	5.3
1-2	.7	12.1	3.3	.0	.0	.0	16.0
3-4	.2	5.8	3.4	.0	.0	.0	9.4
5-6	.0	.4	.2	.0	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	22.7	7.0	.0	.0	.0	31.2

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.0	2.4	.1	.0	.0	.0	4.4
1-2	1.3	10.9	2.2	.0	.0	.0	14.3
3-4	.2	4.6	3.5	.0	.0	.0	8.3
5-6	.0	.1	.2	.0	.0	.0	.8
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.5	18.0	6.7	.0	.0	.0	28.2

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1
1-2	.2	3.0	.2	.0	.0	.0	3.5
3-4	.2	.0	1.1	.2	.0	.0	1.6
5-6	.0	.2	.0	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	4.4	1.3	.2	.0	.0	6.4

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.5	.7	.0	.0	.0	.0	1.2	
1-2	.1	1.3	.0	.0	.0	.0	1.4	
3-4	.0	.5	.0	.0	.0	.0	.5	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	2.5	.0	.0	.0	.0	3.1	88.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	18.5	11.9	.2	.0	.0	.0	30.7	
1-2	4.0	35.1	6.3	.0	.0	.0	45.4	
3-4	.7	12.2	8.4	.2	.0	.0	21.5	
5-6	.0	.9	1.2	.0	.0	.0	2.1	
7	.0	.0	.2	.0	.0	.0	.2	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	23.2	60.2	16.4	.2	.0	.0	100.0	427

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	13.6	34.8	13.1	1.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	507	2
6-7	.1	2.7	3.3	2.1	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	74	4
8-9	.6	.9	.6	.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	3
10-11	.0	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	3
12-13	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	3
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	18.9	4.0	1.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	197	1
TOTAL	269	345	152	32	10	2	0	0	0	0	0	0	0	0	0	0	0	0	0	810	2
PCT	33.2	42.6	18.8	4.0	1.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

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(OVER-ALL) 1856-1972

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	3.4	.0	.0	.0	.0	3.4	1.7	3.4	.0	.0	.0	.0		91.5
NE	6.0	.0	1.5	.0	.0	.0	.0	7.5	.0	3.0	.0	.0	.0	.0		89.6
E	2.0	1.5	1.0	.0	.0	.0	.0	4.5	4.0	.0	.0	.0	.0	.0		91.5
SE	3.3	2.4	.4	.0	.0	.0	.0	6.0	2.9	4.8	.0	.0	.0	.0		86.3
S	3.0	.7	.8	.0	.0	.0	.0	4.6	1.2	1.5	.2	.0	.2	.0		92.4
SW	2.5	1.4	1.2	.0	.0	.0	.0	5.2	3.7	2.0	.0	.0	.2	.0		88.9
W	5.2	6.3	3.3	.0	.0	.0	.0	14.8	3.5	3.7	.0	.0	.0	.0		78.0
NW	12.8	9.6	1.1	.0	.0	.0	.0	23.4	7.4	2.7	.0	.0	.0	.0		66.5
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	1.9	.0	.0	.0	.0		98.1
TOT PCT	3.1	1.7	1.1	.0	.0	.0	.0	5.9	2.5	2.2	.1	.0	.1	.0		89.3
TOT OBS:	1612															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	4.3	1.9	.6	.0	.0	.0	.0	6.9	3.0	.6	.2	.0	.2	.0		89.0
06&09	3.6	1.5	1.3	.0	.0	.0	.0	6.3	2.5	.0	.0	.0	.0	.0		91.2
12&15	1.4	1.4	2.0	.0	.0	.0	.0	4.9	2.9	3.4	.0	.0	.0	.0		88.4
18&21	2.3	1.7	.6	.0	.0	.0	.0	4.7	1.5	5.8	.0	.0	.3	.0		87.8
TOT PCT	3.1	1.7	1.1	.0	.0	.0	.0	5.8	2.5	2.1	.1	.0	.1	.0		89.4
TOT OBS:	1634															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.6	.9	.1	.0	.0	.0		1.7	4.8	1.4	1.8	.7	2.8	2.2	2.2	1.4	2.4
NE	.6	1.2	.1	.0	.0	.0		1.9	5.1	2.3	1.6	1.7	1.1	2.1	3.6	1.6	2.2
E	.8	2.0	.1	*	.0	.0		3.0	5.4	2.3	3.0	2.3	3.4	2.6	6.7	4.1	3.0
SE	1.4	6.7	.9	*	.0	.0		9.1	6.7	9.1	10.0	10.3	6.3	7.5	10.0	8.8	10.6
S	3.8	23.4	7.0	.2	.0	.0		34.4	8.0	39.2	41.0	39.5	32.2	31.0	27.9	28.3	28.5
SW	3.6	21.1	6.5	.3	.0	.0		31.4	8.3	28.5	29.9	30.5	36.0	33.1	35.7	31.6	30.4
W	.9	4.4	2.0	.2	.0	.0		7.6	8.8	7.6	7.6	7.2	8.3	8.3	4.9	8.3	7.1
NW	.7	2.0	.4	.1	.1	.0		3.3	7.5	2.0	2.5	3.5	2.0	3.8	4.5	3.3	4.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.6							7.6	.0	7.7	2.6	4.3	6.9	9.4	4.5	12.6	10.9
TOT OBS	587	1791	495	21	2	0	2896		7.2	508	152	694	321	416	112	390	303
TOT PCT	20.3	61.8	17.1	.7	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.3	.3	.0	.0	.0		1.7	4.8	1.5	1.4	2.2	1.8
NE	1.5	.3	.0	.0	.0		1.9	5.1	2.2	1.5	2.4	1.9
E	2.3	.7	.1	.0	.0		3.0	5.4	2.4	2.7	3.5	3.8
SE	5.3	3.5	.2	.0	.0		9.1	6.7	9.3	9.1	8.0	9.4
S	14.9	18.4	1.1	.1	.0		34.4	8.0	39.6	37.2	30.4	28.6
SW	11.9	18.2	1.3	.1	.0		31.4	8.3	28.8	32.3	37.7	31.1
W	2.8	4.3	.6	.0	.0		7.6	8.8	7.6	7.5	7.6	7.8
NW	1.8	1.3	.1	.1	.0		3.3	7.5	4.1	3.3	3.9	3.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	7.6						7.6	.0	6.3	5.1	0.3	11.8
TOT OBS	1431	1361	99	5	0	2896		7.2	660	1015	528	693
TOT PCT	49.4	47.0	3.4	.2	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	6.5	11.1	62.1	19.4	.9	.0	.0	7.6	100.0	660
06&09	5.1	12.7	61.8	19.5	.9	.1	.0	7.6	100.0	1015
12&15	8.3	11.4	61.7	18.0	.6	.0	.0	7.3	100.0	5.8
18&21	11.8	15.0	61.8	10.7	.6	.1	.0	6.1	100.0	693
TOT	221	366	1791	495	21	2	0	7.2		2896
PCT	7.6	12.6	61.8	17.1	.7	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.2	.5	.4	.4		5.1
NE	.7	.8	.6	.3		4.0
E	1.0	.8	.5	.5		3.7
SE	1.5	1.3	4.0	1.3		5.0
S	8.1	7.7	14.2	5.5		4.7
SW	5.0	7.8	12.7	6.3		5.1
W	.4	1.3	2.7	2.8		6.1
NW	.5	.4	1.3	.8		5.5
VAR	.0	.0	.0	.0		.0
CALM	2.4	2.4	3.0	.1		3.5
TOT OBS	200	231	397	180	1008	4.8
TOT PCT	19.8	22.9	39.4	17.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT)NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.3	.0	.1	.0	.1	.0	1.0	
NE	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	2.1	
E	.0	.0	.0	.3	.2	.0	.0	.0	.0	.0	2.4	
SE	.0	.0	.2	.3	1.0	.6	.1	.1	*	.0	5.8	
S	.0	.0	.3	1.1	2.3	2.7	.3	.1	.1	.1	28.5	
SW	.0	.1	.3	1.9	4.1	2.2	.3	.2	.1	.0	22.0	
W	.3	.0	.4	1.1	.9	.2	.2	.2	.0	.0	3.8	
NW	.0	.0	.0	.6	.2	.3	.2	.0	.0	.0	1.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.1	.2	.6	.2	.0	.0	.0	.1	6.6	
TOT OBS	3	1	13	39	98	62	18	6	3	2	744	1008
TOT PCT	.3	.1	1.3	5.8	9.7	6.2	1.8	.6	.3	.2	73.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.5	.5	.5	.5	.5	.5	.5	.5
* OR >5000	.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0
* OR >3500	2.4	2.8	2.8	2.8	2.8	2.8	2.8	2.8
* OR >2000	7.7	8.7	8.8	8.8	8.9	8.9	8.9	8.9
* OR >1000	14.7	17.4	18.6	18.6	18.7	18.7	18.7	18.7
* OR >600	18.3	22.3	24.3	24.3	24.4	24.4	24.4	24.4
* OR >300	19.0	23.3	25.6	25.6	25.7	25.7	25.7	25.7
* OR >150	19.1	23.4	25.7	25.7	25.8	25.8	25.8	25.8
* OR > 0	19.1	23.6	26.0	26.0	26.1	26.1	26.1	26.1
TOTAL	194	240	264	264	265	265	265	265

TOTAL NUMBER OF OBS: 1016 PCT FREQ NH <5/8: 73.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
9.2	13.8	23.3	19.4	11.6	6.1	7.1	5.5	7.9	.1	1106

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.1	
<1/2	NO PCP	.1	*	.0	.0	.1	.0	.0	.1	.0	.0	.2	
	TOT %	.1	.1	.0	.1	.1	.0	.0	.1	.0	.0	.4	
	PCP	.0	.0	.0	.1	*	.0	.0	.0	.0	.0	.1	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	*	.1	.0	.0	.1	
	TOT %	.0	.0	.0	.1	*	.0	*	.1	.0	.0	.2	
	PCP	.0	.0	.0	.0	*	.1	.0	.1	.0	.0	.2	
1<2	NO PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.1	.1	.1	.0	.1	.0	.0	.3	
	PCP	.0	*	.1	.1	.3	.4	.2	.1	.0	.0	1.3	
2<5	NO PCP	.0	.0	.0	.1	.3	.3	.2	.1	.0	.1	1.1	
	TOT %	.0	*	.1	.2	.6	.7	.4	.2	.0	.1	2.4	
	PCP	.0	.0	.0	.2	.8	.5	.4	.3	.0	.0	2.2	
5<10	NO PCP	.2	*	.5	1.2	3.4	3.2	.8	.4	.0	.2	10.0	
	TOT %	.2	*	.5	1.4	4.2	3.7	1.2	.7	.0	.2	12.3	
	PCP	.1	.1	.1	.1	.4	.6	.4	.2	.0	.0	1.9	
10+	NO PCP	1.4	1.9	2.4	6.6	31.3	25.9	5.0	1.5	.0	6.4	82.5	
	TOT %	1.5	1.9	2.5	6.7	31.7	26.5	5.4	1.8	.0	6.4	84.4	
	TOT OBS												1612
	TOT PCT	1.8	2.1	3.1	8.5	36.7	31.0	7.1	2.9	.0	6.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	*	*	.0	*	.0	.0	.1	
<1/2	4-10	.1	*	.0	.0	*	.1	*	.0	.0		.2	
	11-21	.0	*	.0	*	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.1	.0	*	.1	.1	*	*	.0	.0	.5	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	*	*	.0	.0	.0	.0		*	
	11-21	.0	.0	.0	*	.0	.0	*	.1	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.1	*	.0	*	.1	.0	.0	.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	*	.1	.1	.0	.0			.2	
	11-21	.0	.0	.0	.0	*	.1	*	*			.2	
	22+	.0	.0	.0	.0	.0	.0	.0	*	.0		*	
	TOT %	.0	.0	.0	*	.1	.1	*	.1	.0	.0	.4	
	0-3	.0	.0	.0	*	.1	.1	.1	.0	.0	*	.4	
2<5	4-10	*	.1	*	.1	.4	.2	.3	.1	.0		1.2	
	11-21	.0	.0	.0	*	.1	.3	.2	.1	.0		.8	
	22+	.0	.0	*	*	.0	.1	*	*	.0		.2	
	TOT %	*	.1	.1	.2	.6	.7	.6	.3	.0	*	2.6	
	0-3	.1	*	.2	.2	.3	.2	*	*	.0	.2	1.4	
5<10	4-10	.1	.0	.1	.8	2.2	2.0	.6	.5	.0		6.4	
	11-21	*	.0	*	.2	1.0	.8	.5	.1	.0		2.7	
	22+	.0	.0	.0	.0	.0	.1	.0	.0	.0		.1	
	TOT %	.3	*	.4	1.2	3.5	3.1	1.1	.6	.0	.2	10.6	
	0-3	.4	.4	.5	.9	2.7	2.7	.8	.4	.0	4.5	15.3	
10+	4-10	.9	1.2	1.8	5.4	21.9	19.8	3.5	1.2	.0		55.7	
	11-21	*	.0	.1	.6	6.7	5.6	1.3	.1	.0		14.4	
	22+	.0	.0	.0	.0	.2	.1	*	.0	.0		.3	
	TOT %	1.3	1.6	2.4	7.0	31.4	28.2	5.6	1.8	.0	6.5	85.7	
	TOT OBS												2108
	TOT PCT	1.7	1.8	2.8	8.6	35.8	32.2	7.5	2.9	.0	6.7	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	2.3	5.9	9.9	5.3	1.3	1.0	.0	.7	26.4	73.6	303
06&09	.3	.3	.9	5.3	9.7	6.3	1.9	.9	.3	.0	25.9	74.1	320
12&15	.9	.0	.9	5.0	11.1	7.1	2.2	.0	.9	.0	28.9	71.1	225
18&21	.0	.0	.4	4.4	6.1	4.4	1.3	.9	.0	.0	16.6	83.4	229
TOT	3	1	13	58	100	62	18	6	3	2	266	811	1077
PCT	.3	.1	1.2	5.4	9.3	5.8	1.7	.6	.3	.2	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
00&03	.5	.5	.2	3.1	11.1	84.6	551
06&09	.0	.0	.4	2.1	7.4	90.1	679
12&15	1.2	.0	.2	3.9	12.1	82.6	431
18&21	.4	.2	.9	1.5	13.4	83.6	469
TOT	10	4	9	55	226	1826	2130
PCT	.5	.2	.4	2.6	10.6	85.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	2.8	11.5	16.7	71.9	288
06&09	.3	1.6	9.5	18.0	72.5	305
12&15	.9	1.5	9.0	22.3	68.7	211
18&21	.0	.5	6.6	12.7	80.7	212
TOT	3	18	95	177	744	1016
PCT	.3	1.8	9.4	17.4	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
95/99	.0	.0	.0	.1	.0	.0	.0	.0	1	.1
90/94	.0	.0	.0	.1	1.5	1.4	.3	.0	31	3.3
85/89	.0	.0	.0	.0	4.2	18.6	6.0	1.6	269	30.4
80/84	.0	.0	.0	.1	.9	27.8	28.4	4.8	591	62.1
75/79	.0	.0	.0	.0	.0	.0	1.9	2.3	40	4.2
TOTAL	0	0	0	3	63	455	348	83	952	100.0
PCT	.0	.0	.0	.3	6.6	47.8	36.6	8.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	.1	*	.0	.0	.0	.0
	.0	.1	.1	.3	1.2	.9	.0	.0	.0	.6
	..	.8	.4	2.7	11.8	9.7	1.3	.3	.0	2.8
	.9	1.4	1.9	4.6	22.3	19.4	4.9	1.8	.0	4.8
	.0	.1	.2	.2	.6	1.4	1.1	.5	.0	.1
	1.4	2.4	2.6	7.8	36.0	31.4	7.2	2.6	.0	8.4

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	97	92	89	84	79	75	73	83.6	661
06&09	97	92	90	85	79	77	73	84.7	993
12&15	90	89	87	83	79	77	75	83.2	529
18&21	90	86	85	83	79	75	73	82.5	694
TOT	97	91	88	84	79	76	73	83.7	2877

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	1.5	41.8	45.1	11.7	81	273
06&09	.0	1.1	18.6	52.6	24.1	3.6	76	274
12&15	.0	.0	2.0	52.7	36.3	9.0	80	201
18&21	.0	.0	1.8	42.8	43.7	11.7	81	222
TOT	0	3	63	459	359	86	79	970

PERIOD: (PRIMARY) 1922-1972
(OVER-ALL) 1956-1972

TABLE 17

AREA 0006 MATUNA ISLAND
3.6N 106.9E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.1	.0	.0	2	.0	.1
9/10	.0	.0	.0	.0	.0	.2	3	.0	.2
7/8	.0	.0	.1	.1	.5	.2	13	.0	.9
6	.0	.0	.0	.0	.3	.0	4	.0	.3
5	.0	.1	.0	.7	1.5	.1	36	.0	2.4
4	.0	.1	.5	1.9	2.0	.1	70	.0	4.6
3	.0	.0	.2	.7	1.2	.0	32	.0	2.1
2	.0	.1	3.6	5.3	.9	.0	149	.0	9.8
1	.0	.1	1.3	3.4	.0	.0	72	.0	4.7
0	.0	.2	12.6	8.4	.0	.0	321	.1	21.1
-1	.0	.0	6.5	3.3	.0	.0	149	.0	9.8
-2	.1	.7	15.7	1.8	.0	.0	277	.0	18.2
-3	.0	.7	5.5	.6	.0	.0	105	.0	6.9
-4	.1	1.4	8.1	.3	.0	.0	151	.0	9.9
-5	.2	1.0	2.2	.1	.0	.0	53	.0	3.5
-6	.0	1.1	1.0	.1	.0	.0	32	.0	2.1
-7/-8	.3	1.1	.9	.0	.0	.0	35	.0	2.3
-9/-10	.1	.5	.1	.0	.0	.0	9	.0	.6
-11/-13	.2	.2	.0	.0	.0	.0	6	.0	.4
TOTAL	14	108	884	409	95	9	1519	1	1518
PCT	.9	7.1	58.2	26.9	6.3	.6	100.0	.1	99.9

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.7	.0	.0	.0	.0	.7
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.7	.0	.0	.0	.0	.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5
1-2	.0	.7	.0	.0	.0	.0	.7
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.2	.0	.0	.0	.0	1.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.2	.0	.0	.0	.0	.7
1-2	.0	1.1	.0	.0	.0	.0	1.1
3-4	.0	.4	.4	.0	.0	.0	.8
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	1.7	.4	.0	.0	.0	2.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.1	.0	.0	.0	.0	.3
1-2	.3	3.6	.1	.0	.0	.0	4.2
3-4	.2	.4	1.1	.0	.0	.0	1.8
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	4.1	1.2	.0	.0	.0	6.3

PERIOD: (OVER-ALL) 1963-1972 JUNE AREA 0006 NATUNA ISLAND 3.6N 106.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	3.1	.2	.0	.0	.0	3.8	.3	1.9	.2	.0	.0	.0	2.4
1-2	.6	11.1	3.6	.0	.0	.0	15.3	2.0	12.3	3.2	.0	.0	.0	17.5
3-4	.2	6.8	3.7	.2	.0	.0	10.9	.3	5.1	5.1	.0	.0	.0	10.5
5-6	.0	.4	2.0	.0	.0	.0	2.5	.0	.5	3.1	.0	.0	.0	3.6
7	.0	.0	.7	.0	.0	.0	.7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.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	21.4	10.3	.2	.0	.0	33.2	2.6	19.8	12.0	.0	.0	.0	34.3

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.2	.5	.0	.0	.0	.0	.7	.3		.0	.0	.0	.0	.8	
1-2	.2	2.4	.5	.0	.0	.0	3.1	.2		.0	.0	.0	.0	1.1	
3-4	.0	1.6	1.9	.0	.0	.0	3.5	.0		.0	.0	.0	.0	.2	
5-6	.0	.0	.7	.0	.0	.0	.7	.	.0	.0	.0	.2	.0	.2	
7	.0	.0	.4	.0	.0	.0	.4	.	.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	4.5	3.3	.0	.0	.0	8.3	.5	1.6	.0	.0	.2	.0	2.4	89.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	12.9	6.7	.5	.0	.0	.0	20.0	
1-2	3.6	32.9	7.4	.0	.0	.0	43.9	
3-4	.7	14.6	12.2	.2	.0	.0	27.7	
5-6	.0	1.0	5.7	.0	.2	.0	6.9	
7	.0	.0	1.4	.0	.0	.0	1.4	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	17.2	55.1	27.2	.2	.2	.0	100.0	419

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	7.3	33.7	19.4	4.7	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	532	2
6-7	.4	2.2	4.6	6.3	1.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	118	4
8-9	.0	.4	.4	.5	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	5
10-11	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	2
12-13	.0	.0	.2	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	5
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	11.6	2.8	1.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	135	1
TOTAL	156	320	212	100	20	2	0	0	0	0	0	0	0	0	0	0	0	0	0	810	2
PCT	19.3	39.5	26.2	12.3	2.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1923-1972
(OVER-ALL) 1855-1972

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCUPPENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PH NOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SM, KE H ZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
N	8.2	9.4	7.1	.0	.0	.0	.0	21.2	3.5	.0	.0	.0	.0	.0	.0	75.3
NE	.0	12.9	.0	.0	.0	.0	.0	12.9	.0	6.5	.0	.0	.0	.0	.0	80.6
E	.0	.0	.0	.0	.0	.0	.0	.0	3.7	.0	.0	.0	.0	.0	.0	96.3
SE	.5	1.4	.2	.0	.0	.0	.0	2.1	.0	3.7	.0	.0	.0	.0	.0	94.3
S	1.5	.6	.5	.0	.0	.0	.0	2.7	1.3	3.1	.2	.0	.2	.0	.0	92.8
SW	2.4	1.0	1.5	.0	.0	.0	.0	4.7	3.1	3.4	.0	.0	*	.0	.0	88.9
W	9.5	4.0	1.7	.0	.0	.0	.0	15.2	5.1	.8	.0	.0	.6	.0	.0	78.3
NW	8.8	5.3	1.8	.0	.0	.0	.0	14.9	1.8	.0	.0	.0	.0	.0	.0	83.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7	3.4	.0	.0	.0	.0	.0	5.2	.0	1.7	.0	.0	5.2	.0	.0	87.9
TOT PCT	2.6	1.5	1.0	.0	.0	.0	.0	4.9	2.1	2.9	.1	.0	.3	.0	.0	89.8
TOT OBS:	1516															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
00&03	3.1	1.0	1.7	.0	.0	.0	.0	5.3	3.6	1.4	.0	.0	.7	.0	.0	89.2
06&09	3.7	1.1	.9	.0	.0	.0	.0	5.7	2.1	.0	.0	.0	.2	.0	.0	92.0
12&15	2.2	1.9	.8	.0	.0	.0	.0	5.0	1.7	3.9	.0	.0	.3	.0	.0	89.3
18&21	.6	2.2	.3	.0	.0	.0	.0	3.1	.6	7.5	.3	.0	.0	.0	.0	88.8
TOT PCT	2.5	1.5	1.0	.0	.0	.0	.0	4.9	2.1	2.9	.1	.0	.3	.0	.0	89.9
TOT OBS:	1539															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.5	.7	.2	.0	.0	.0		1.3	5.6	.7	.8	.8	1.6	2.5	.5	1.7	1.2
NE	.2	.6	.1	.0	.0	.0		.9	6.0	.6	.8	.9	.5	1.5	.5	1.6	.0
E	.3	1.2	.1	.0	.0	.0		1.6	6.0	3.1	1.4	1.4	1.3	.7	3.4	1.5	.9
SE	1.1	4.9	1.4	.1	.0	.0		7.5	7.6	7.3	7.7	7.4	7.5	7.0	5.0	8.9	8.0
S	2.6	24.5	13.3	.4	.0	.0		40.6	9.7	40.6	47.4	44.9	38.4	35.8	39.4	35.9	43.6
SW	2.3	21.5	10.1	.7	.0	.0		34.5	9.4	34.3	35.8	32.7	35.4	35.0	38.9	34.7	35.2
W	.8	4.2	1.9	.2	.0	.0		7.0	9.1	6.2	4.7	6.2	8.3	9.7	11.3	6.1	5.9
NW	.4	1.4	.4	*	.0	.0		2.3	7.9	.9	.6	2.3	3.8	3.6	1.0	2.6	1.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.3							4.3	.0	6.3	.8	3.5	3.3	4.1	.0	7.0	3.4
TOT OBS	338	1624	758	37	0	0	2757		8.8	475	123	661	306	411	104	387	290
TOT PCT	12.3	58.9	27.5	1.3	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.8	.4	*	.0	.0		1.3	5.6	.7	1.1	2.1	1.5
NE	.6	.2	*	.0	.0		.9	6.0	.7	.7	1.3	.9
E	1.1	.5	.0	.0	.0		1.6	6.0	2.8	1.4	1.3	1.2
SE	3.7	3.5	.3	.0	.0		7.5	7.6	7.6	7.4	6.6	8.5
S	10.8	26.3	3.4	.1	.0		40.6	9.7	42.0	42.8	36.6	39.2
SW	10.4	21.5	2.6	*	.0		34.5	9.4	34.6	33.5	35.8	34.9
W	2.7	3.5	.8	*	.0		7.0	9.1	5.9	6.9	10.0	6.0
NW	1.2	.9	.2	*	.0		2.3	7.9	.8	2.7	3.1	2.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.3				.0		4.3	.0	5.2	3.4	3.3	5.5
TOT OBS	982	1569	201	5	0	2757		8.8	598	967	515	677
TOT PCT	35.6	56.9	7.3	.2	.0		100.0		100.0	100.0	100.0	100.0

JULY

PERIOD: (PRIMARY) 1923-1972
(OVER-ALL) 1855-1972

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	5.2	6.4	56.0	31.8	.7	.0	.0	8.9	100.0	598
06&09	3.4	7.8	56.2	31.3	1.3	.0	.0	9.2	100.0	967
12&15	3.3	9.3	61.2	24.3	1.9	.0	.0	8.7	100.0	515
18&21	5.5	8.7	63.7	20.7	1.5	.0	.0	8.1	100.0	677
TOT	118	220	1624	758	37	0	0	8.8		2757
PCT	4.3	8.0	58.9	27.5	1.3	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.1	.4	.6	.4		5.6
NE	*	.6	.5	.1		4.9
E	.8	.5	.8	.2		4.0
SE	2.3	2.0	2.1	.8		4.1
S	7.2	10.4	16.5	6.1		4.8
SW	4.3	5.6	14.8	8.4		5.5
W	.4	.8	3.1	3.1		6.2
NW	*	.3	1.0	.7		6.4
VAR	.0	.0	.0	.0		.0
CALM	1.9	1.5	1.4	.4		3.6
TOT OBS	164	218	401	198	985	4.8
TOT PCT	17.1	22.1	40.7	20.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.3	.0	.0	.1	.0	.0	.0	1.0	
NE	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.9	
E	.0	.0	.0	.1	.3	.2	.0	.0	.0	.0	1.7	
SE	.0	.0	.0	.3	.4	.3	.0	.1	.0	.0	5.9	
S	.1	.0	.3	1.3	3.9	2.3	.5	.2	.0	.0	31.5	
SW	.1	.0	1.2	2.2	4.1	2.4	1.4	.7	.0	.0	21.0	
W	.0	.1	.0	1.9	1.8	.7	.0	.1	.0	.0	3.5	
NW	.0	.0	.0	.2	.5	.1	.0	.0	.0	.0	1.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.1	.1	.2	.0	.0	.0	.1	.0	4.8	
TOT OBS	2	1	16	58	114	59	20	10	1	0	704	985
TOT PCT	.2	.1	1.6	5.9	11.6	6.0	2.0	1.0	.1	.0	71.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.1	.1	.1	.1	.1	.1	.1	.1
* OR >5000	1.1	1.2	1.3	1.3	1.3	1.3	1.3	1.3
* OR >3500	2.8	3.1	3.4	3.4	3.4	3.4	3.4	3.4
* OR >2000	7.4	8.7	9.2	9.2	9.2	9.2	9.2	9.2
* OR >1000	16.7	20.0	20.7	20.7	20.7	20.7	20.7	20.7
* OR >600	20.2	25.0	26.0	26.4	26.5	26.5	26.5	26.5
* OR >300	21.3	26.2	27.8	28.0	28.1	28.1	28.1	28.1
* OR >150	21.3	26.3	27.7	28.1	28.2	28.2	28.2	28.2
* OR > 0	21.4	26.4	27.8	28.2	28.4	28.4	28.4	28.4
TOTAL	214	265	279	283	285	285	285	285

TOTAL NUMBER OF OBS: 1002 PCT FREQ NH <5/8: 71.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
4.6	13.0	21.8	19.8	11.9	9.6	7.0	5.0	7.1 .2	1078

PERIOD: (PRIMARY) 1923-1972
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.1	.1	.2	.0	.0	.0	.3	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.1	.1	.2	.0	.0	.0	.3	
	PCP	.0	.0	.0	*	*	*	.2	.0	.0	.0	.3	
1<2	NO PCP	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.0	*	.1	.1	.2	.0	.0	.0	.5	
	PCP	.1	.0	.0	.0	.0	.2	.2	.1	.0	.0	.6	
2<5	NO PCP	.1	.0	*	*	.3	.9	.1	.1	.0	.0	1.2	
	TOT %	.1	.0	*	*	.3	.7	.3	.1	.0	.0	1.8	
	PCP	.1	.1	.0	*	.7	.7	.3	.2	.0	.2	2.3	
5<10	NO PCP	.1	.2	.2	1.1	5.0	4.1	1.0	.1	.0	.1	11.9	
	TOT %	.2	.3	.2	1.1	5.8	4.7	1.3	.3	.0	.3	14.2	
	PCP	.1	.1	.0	.1	.3	.6	.2	*	.0	.0	1.5	
10+	NO PCP	1.0	.7	1.6	5.9	34.6	27.5	5.6	1.4	.0	3.5	81.7	
	TOT %	1.1	.7	1.6	6.0	34.9	28.1	5.6	1.4	.0	3.5	83.2	
	TOT OBS												1516
	TOT PCT	1.4	1.0	1.8	7.2	41.2	33.8	7.8	1.9	.0	3.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	*	*	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	*	.1	.0	.0	.0	.0	.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	*	.0	*	.0	.0		.1	
	11-21	.0	.0	.0	.0	*	*	*	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	*	*	.0	.0		.1	
	TOT %	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.3	
	0-3	.0	.0	.0	*	*	.0	.0	.0	.0	*	.1	
1<2	4-10	.0	.0	.0	.0	.1	.1	.1	.0	.0		.3	
	11-21	.0	.0	.0	.0	*	*	*	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	*	.1	.2	.2	.0	.0	*	.5	
	0-3	.0	.0	*	.0	.1	*	.1	.0	.0	.1	.4	
2<5	4-10	*	.0	*	*	.3	.6	.2	*	.0		1.0	
	11-21	*	.0	.0	.0	.1	.2	.2	.1	.0		.6	
	22+	.0	.0	.0	.0	.0	*	.0	.0	.0		*	
	TOT %	.1	.0	.1	*	.4	.7	.5	.1	.0	.1	2.1	
	0-3	*	*	.1	.1	.2	.3	.1	*	.0	.4	1.3	
5<10	4-10	.1	.2	*	.5	2.5	2.2	.5	.1	.0		6.2	
	11-21	.1	.0	.0	.3	1.6	1.3	.5	.1	.0		3.9	
	22+	.0	.0	.0	.0	.2	.2	.0	.0	.0		.3	
	TOT %	.2	.2	.1	.9	4.6	3.9	1.1	.3	.0	.4	11.8	
	0-3	.3	.2	*	.6	1.5	1.7	.8	.4	.0	3.5	9.0	
10+	4-10	.5	.4	1.0	4.6	23.1	19.0	3.3	.8	.0		52.9	
	11-21	.1	.1	.2	1.0	11.5	8.5	1.3	.2	.0		22.8	
	22+	.0	.0	.0	.0	.2	.2	*	.0	.0		.5	
	TOT %	.9	.7	1.3	6.3	36.3	29.5	5.4	1.4	.0	3.5	85.2	
	TOT OBS												2027
	TOT PCT	1.2	.9	1.5	7.2	41.6	34.4	7.4	1.9	.0	4.0	100.0	

PERIOD: (PRIMARY) 1923-1972
(OVER-ALL) 1855-1972

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00Z03	.3	.0	.7	3.8	10.0	5.5	2.4	.7	.0	.0	23.4	76.6	291
06Z09	.0	.0	1.3	5.6	11.1	7.2	2.3	.3	.0	.0	27.9	72.1	305
12Z15	.0	.0	2.8	9.6	11.6	4.4	2.0	1.6	.0	.0	31.9	68.1	251
18Z21	.5	.5	1.5	3.4	11.2	4.9	1.0	2.4	.5	.0	25.9	74.1	205
TOT	2	1	16	59	115	59	21	12	1	0	286	766	1052
PCT	.2	.1	1.5	5.6	10.9	5.6	2.0	1.1	.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
00Z03	.2	.2	.4	1.2	13.4	84.6	514
06Z09	.0	.3	1.1	2.0	9.4	87.2	446
12Z15	.0	.7	.2	3.0	12.0	84.1	433
18Z21	.2	.0	.2	2.2	12.5	84.9	457
TOT	2	6	11	42	239	1750	2050
PCT	.1	.3	.5	2.0	11.7	85.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND3+	NH <5/8 AND 5+	TOTAL OBS
00Z03	.4	1.1	5.8	18.7	75.5	278
06Z09	.0	1.4	8.6	20.5	70.9	292
12Z15	.0	3.3	13.8	20.0	66.3	240
18Z21	.5	2.6	7.8	20.8	71.4	192
TOT	2	20	89	200	713	1002
PCT	.2	2.0	8.9	20.0	71.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.3	1.3	.5	.2	.0	22	2.4
85/89	.0	.0	.0	.2	3.1	11.0	3.6	.5	171	18.5
80/84	.0	.0	.0	.0	2.1	33.7	32.3	5.4	678	73.4
75/79	.0	.0	.0	.0	.0	1.0	2.4	1.9	49	5.3
70/74	.0	.0	.0	.0	.0	.0	.2	.2	4	.4
TOTAL	0	0	0	5	60	427	357	75	924	100.0
PCT	.0	.0	.0	.5	6.5	46.2	38.6	8.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.1	.2	.3	1.3	.5	.0	.0	.0	.0
	.3	.2	.2	1.5	8.1	6.2	1.2	.2	.0	.5
	.7	.7	1.2	5.3	29.0	23.6	6.3	1.8	.0	4.8
	.3	.0	.1	*	1.2	2.1	1.2	.4	.0	.0
	.0	.0	.0	.0	.0	.1	.3	*	.0	.0
	1.3	.9	1.7	7.2	39.8	32.6	9.0	2.4	.0	5.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00Z03	97	91	87	83	79	77	74	83.0	599
06Z09	95	91	89	84	79	75	72	84.2	953
12Z15	90	88	86	82	79	76	73	82.5	522
18Z21	88	86	84	82	79	76	73	82.2	673
TOT	97	90	88	83	79	76	72	83.1	2747

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00Z03	.0	.0	4.0	43.4	44.6	8.0	81	249
06Z09	.0	1.5	15.9	52.0	26.6	4.4	76	271
12Z15	.0	.4	2.6	48.7	40.9	7.3	80	232
18Z21	.0	.0	1.0	39.3	45.5	14.1	82	191
TOT	0	3	80	437	365	76	79	943

JULY

PERIOD: (PRIMARY) 1923-1972
(OVER-ALL) 1955-1972

TABLE 17

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PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.1	.0	.0	.0	1	.0	.1
9/10	.0	.0	.0	.0	.1	.1	.1	4	.0	.3
7/8	.0	.0	.0	.0	.2	.6	.2	15	.0	1.0
6	.0	.0	.0	.1	.1	.3	.0	6	.0	.4
5	.0	.0	.1	.3	.7	1.1	.0	31	.0	2.2
4	.0	.0	.0	.5	2.4	.8	.0	49	.0	3.4
3	.0	.0	.0	.3	1.1	.2	.0	23	.0	1.6
2	.0	.0	.0	3.9	4.8	.3	.0	130	.0	9.0
1	.0	.0	.1	2.4	1.9	.0	.0	63	.0	4.4
0	.0	.1	.3	20.1	4.0	.0	.0	352	.0	24.4
-1	.0	.0	.2	11.2	.9	.0	.0	178	.0	12.4
-2	.0	.1	1.2	10.5	.6	.0	.0	266	.0	13.5
-3	.0	.0	1.5	5.8	.3	.0	.0	108	.1	7.4
-4	.0	.1	1.9	5.3	.1	.0	.0	105	.0	7.2
-5	.0	.2	1.9	1.6	.0	.0	.0	53	.0	3.7
-6	.0	.1	.8	.3	.0	.0	.0	14	.0	1.0
-7/-8	.0	.2	1.0	.7	.0	.0	.0	27	.0	.9
-9/-10	.1	.1	.3	.1	.0	.0	.0	9	.0	.6
-11/-13	.1	.4	.0	.0	.0	.0	.0	7	.0	.5
TOTAL	2	17	130	994	248	45	5	1441	1	1440
PCT	.1	1.2	9.0	69.0	17.2	3.1	.3	100.0	.1	99.9

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.2	.0	.0	.0	.2
3-4	.0	.2	.2	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.2	.4	.0	.0	.0	.6

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	.0	.4	.0	.0	.0	.0	.4
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.7	.0	.0	.0	.0	.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	.0	.0	.0	.0	.4
1-2	.0	.9	.0	.0	.0	.0	.9
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.1	.2	.0	.0	.0	1.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.0	.0	.0	.0	.0	.4
1-2	.3	2.7	.8	.0	.0	.0	3.8
3-4	.0	.6	.4	.0	.0	.0	1.0
5-6	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	3.3	1.5	.0	.0	.0	5.5

PERIOD: (OVER-ALL) 1963-1972

JULY

AREA 0006 NATUNA ISLAND
3.6N 107.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.9	.2	.0	.0	.0	2.6	.7	1.2	.2	.0	.0	.0	2.1
1-2	.2	10.3	6.4	.0	.0	.0	16.9	1.3	9.7	3.9	.0	.0	.0	14.9
3-4	.2	7.1	9.1	.2	.0	.0	16.6	.1	4.4	4.9	.2	.0	.0	9.6
5-6	.0	1.1	5.7	.0	.0	.0	6.8	.0	1.0	3.1	.0	.0	.0	4.1
7	.0	.0	1.0	.2	.0	.0	1.2	.0	.0	.6	.2	.0	.0	.8
8-9	.0	.0	.5	.0	.0	.0	.5	.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	.8	20.4	23.0	.4	.0	.0	44.7	2.1	16.2	12.9	.4	.0	.0	31.7

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.8	2.2	.0	.0	.0	.0	3.1	.0	.5	.0	.0	.0	.0	.5	
1-2	.2	2.2	1.7	.0	.0	.0	4.2	.0	.4	.2	.0	.0	.0	.7	
3-4	.0	1.0	2.1	.0	.0	.0	3.1	.0	.0	.1	.0	.0	.0	.1	
5-6	.0	.2	.2	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.1	5.6	4.2	.0	.0	.0	10.9	.0	1.0	.3	.0	.0	.0	1.3	96.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.1	6.3	.4	.0	.0	.0	12.8	
1-2	2.0	26.7	13.2	.0	.0	.0	41.9	
3-4	.2	13.2	16.8	.4	.0	.0	30.7	
5-6	.0	2.2	9.4	.0	.0	.0	11.7	
7	.0	.0	1.8	.4	.0	.0	2.2	
8-9	.0	.0	.7	.0	.0	.0	.7	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								446
TOT PCT	8.3	48.4	42.4	.9	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	6.4	30.1	20.0	6.7	.9	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	516	3
6-7	.1	1.6	7.0	5.7	1.9	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	136	4
8-9	.0	.2	.9	1.0	.6	.2	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	5
10-11	.0	.1	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	5
12-13	.0	.0	.4	.1	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	6
>13	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
INDET	8.6	2.6	2.0	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	111	1
TOTAL	121	278	243	113	30	9	2	3	1	1	0	0	0	0	0	0	0	0	0	801	3
PCT	15.1	34.7	30.3	14.1	3.7	1.1	.2	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1923-1972
(OVER-ALL) 1857-1972

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	9.5	.0	.0	.0	.0	.0	.0	9.5	11.1	12.7	.0	.0	.0	.0		73.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	10.1	.0	.0	.0	.0	.0		89.9
E	2.4	1.8	.0	.0	.0	.0	.0	4.3	.0	.0	.0	.0	.0	.0		95.7
SE	3.0	.2	.0	.0	.0	.0	.0	3.2	.9	.9	.0	.0	.0	.0		95.0
S	2.2	.7	.0	.0	.0	.0	.0	2.9	1.6	.7	.0	.0	.3	.0		94.5
SW	2.0	1.7	.4	.0	.0	.0	.0	4.0	2.0	.7	.0	.0	.2	.0		93.0
W	4.6	4.0	.8	.0	.0	.0	.0	9.4	5.6	.0	.0	.0	.0	.0		85.1
NW	14.4	3.8	7.7	.0	.0	.0	.0	26.0	11.5	3.8	.0	.0	.0	.0		58.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	3.3	.0	.0	.0	.0	.0	.0	3.3	6.7	3.3	.0	.0	.0	.0		86.7
TOT PCT	2.7	1.3	.3	.0	.0	.0	.0	4.3	2.6	.9	.0	.0	.2	.0		92.0
TOT OBS:	1520															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.1	.9	.5	.0	.0	.0	.0	4.5	2.8	.2	.0	.0	.2	.0		92.3
06&09	2.7	2.0	.2	.0	.0	.0	.0	4.9	2.2	.0	.0	.0	.0	.0		92.9
12&15	2.5	1.4	.3	.0	.0	.0	.3	4.5	3.4	.8	.0	.0	.3	.0		91.0
18&21	2.2	.6	.3	.0	.0	.0	.0	3.1	1.6	3.1	.0	.0	.3	.0		92.2
TOT PCT	2.6	1.3	.3	.0	.0	.0	.1	4.3	2.5	.9	.0	.0	.2	.0		92.1
TOT OBS:	1548															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.3	.6	.1	.0	.0	.0		1.0	5.7	1.0	1.3	1.6	.9	1.1	.0	.3	.5
NE	.5	.6	.1	.0	.0	.0		1.2	5.2	1.5	2.1	1.6	.4	.5	3.0	.8	1.2
E	.6	1.5	.1	.0	.0	.0		2.2	5.6	2.9	2.8	2.3	1.5	1.2	2.5	2.4	2.0
SE	1.0	3.3	1.1	.0	.0	.0		7.4	7.4	6.4	8.1	6.4	7.7	6.7	12.4	9.4	7.4
S	2.2	22.7	10.0	.3	.0	.0		35.2	9.2	37.0	39.2	38.1	38.5	28.9	38.6	31.9	33.2
SW	2.1	23.1	12.1	.4	*	.0		37.7	9.5	37.5	37.3	36.2	38.8	40.5	36.1	35.4	40.2
W	1.1	4.7	1.8	.2	.0	.0		7.9	8.6	7.4	5.9	7.5	7.6	10.2	4.5	7.3	9.6
NW	.4	1.2	.3	.1	.0	.0		2.0	7.7	2.8	2.5	1.5	1.1	3.0	2.0	2.3	.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.4							5.4	.0	3.5	.8	4.8	3.6	7.9	1.0	10.2	5.1
TOT OBS	386	1689	723	28	1	0	2827		8.5	508	118	673	309	428	101	394	296
TOT PCT	13.7	59.7	25.6	1.0	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.7	.3	.1	.0	.0		1.0	5.7	1.0	1.4	.9	.4
NE	.9	.3	*	.0	.0		1.2	5.2	1.6	1.2	1.0	1.0
E	1.5	.6	.0	.0	.0		2.2	5.6	2.9	2.1	1.5	2.2
SE	3.5	3.6	.3	.0	.0		7.4	7.4	6.7	6.8	7.8	8.6
S	9.9	23.2	2.1	.1	.0		35.2	9.2	37.4	38.2	30.8	32.5
SW	10.6	24.7	2.4	.1	.0		37.7	9.5	37.5	37.0	39.7	37.5
W	3.4	3.7	.7	.1	.0		7.9	8.6	7.1	7.6	9.1	8.3
NW	1.2	.5	.2	*	.0		2.0	7.7	2.8	1.4	2.8	1.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.4						5.4	.0	3.0	4.4	6.6	8.0
TOT OBS	1048	1608	165	6	0	2827		8.5	626	982	529	690
TOT PCT	37.1	56.9	5.8	.2	.0		100.0		100.0	100.0	100.0	100.0

AUGUST

PERIOD: (PRIMARY) 1929-1972
(OVER-ALL) 1857-1972

AREA 0006 NATUNA ISLAND
3.8N 107.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.0	9.3	59.9	27.5	.8	.2	.0	8.6	100.0	620
06&09	4.4	9.0	57.2	28.4	1.0	.0	.0	8.8	100.0	982
12&15	6.6	5.7	63.1	24.1	1.3	.0	.0	8.4	100.0	529
18&21	8.0	8.4	61.2	21.7	.7	.0	.0	7.9	100.0	690
TOT	152	234	1689	723	28	1	0	8.5		2827
PCT	5.4	8.3	59.7	25.6	1.0	*	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.1	.1	.5	.3		6.0
NE	.4	.1	.8	.3		5.2
E	.5	.4	1.2	.3		5.0
SE	1.8	1.9	1.9	.9		4.3
S	6.5	9.3	15.0	6.0		4.9
SW	5.3	6.6	16.0	8.0		5.3
W	.6	1.6	4.0	3.1		6.0
NW	.0	.2	.7	.8		6.8
VAR	.0	.0	.0	.0		.0
CALM	1.5	.8	1.6	1.1		4.7
TOT OBS	171	215	428	212	1026	5.1
TOT PCT	16.7	21.0	41.7	20.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.2	.1	.1	.1	.0	.0	.5	
NE	.0	.0	.2	.2	.3	*	.0	.0	.0	.0	.8	
E	.1	.0	.0	.0	.3	.2	.1	.0	.0	.0	1.8	
SE	.0	*	.1	.3	.5	.1	.1	.4	.0	.0	5.1	
S	.1	.2	.5	1.5	4.2	1.6	1.2	*	.2	.0	27.4	
SW	.2	.0	.4	2.2	4.0	2.3	1.1	*	.1	.0	25.4	
W	.2	.0	.2	.8	1.0	.7	.4	.2	.0	.1	5.7	
NW	.0	.0	.0	.4	.5	.2	*	.1	.0	.0	.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.4	.5	.4	.0	.1	.0	.0	3.5	
TOT OBS	6	2	14	59	119	57	31	10	3	1	724	1026
TOT PCT	.6	.2	1.4	5.8	11.6	5.6	3.0	1.0	.3	.1	70.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.3	.4	.4	.4	.4	.4	.4	.4
* OR >5000	1.1	1.3	1.3	1.3	1.3	1.3	1.3	1.3
* OR >3500	3.8	4.5	4.5	4.5	4.5	4.5	4.5	4.5
* OR >2000	7.7	10.0	10.1	10.1	10.1	10.1	10.1	10.1
* OR >1000	15.5	21.1	21.6	21.6	21.6	21.6	21.6	21.6
* OR >600	19.2	26.0	27.2	27.2	27.3	27.3	27.3	27.3
* OR >300	19.9	27.0	28.4	28.4	28.5	28.5	28.5	28.5
* OR >150	20.0	27.2	28.6	28.6	28.7	28.7	28.7	28.7
* OR > 0	20.3	27.5	29.0	29.0	29.1	29.2	29.3	29.3
TOTAL	212	287	303	303	304	305	306	306

TOTAL NUMBER OF OBS: 1044 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
9.8	12.3	23.3	16.8	12.0	9.1	7.1	6.4	6.8	.4	1112

PERIOD: (PRIMARY) 1923-1972
(OVER-ALL) 1857-1972

TABLE 8

AREA 0016 NAPUNA ISLAND
3.6N 107.0E

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	*	.1	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.0	.1	*	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	.3	
1/2<1	PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	.1	
2<5	PCP	.1	.0	.0	.0	.0	.4	.1	.0	.0	.1	.8	
	NO PCP	.0	.0	.1	*	.3	.5	.2	.0	.0	.0	1.2	
	TOT %	.1	.0	.1	*	.5	.9	.3	.0	.0	.1	2.0	
5<10	PCP	.0	.0	.0	.1	.3	.4	.2	.2	.0	.0	1.2	
	NO PCP	.0	.1	.2	.9	5.5	5.1	1.5	.2	.0	.5	14.1	
	TOT %	.0	.1	.2	1.0	5.8	5.5	1.7	.4	.0	.5	15.3	
10+	PCP	*	.0	.1	.1	.6	.6	.3	.2	.0	.1	2.0	
	NO PCP	.9	1.3	2.3	6.1	30.0	29.4	5.8	1.0	.0	3.3	80.1	
	TOT %	1.0	1.3	2.4	6.2	30.6	30.0	6.1	1.2	.0	3.4	82.2	
	TOT OBS												1519
	TOT PCT	1.0	1.4	2.7	7.2	36.9	36.8	8.3	1.7	.0	3.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.1	*	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	*	.1	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	*	*	.0	.0		*	
	TOT %	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	*	.0	.0	.0		*	
	11-21	.0	.0	.0	.0	.0	*	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.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	.0	.0	*	.1	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	*	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	*	.1	.0	*	.0	.0	.1	
2<5	0-3	.0	.0	*	.0	.0	*	*	.0	.0	*	.2	
	4-10	.0	.0	*	.1	.4	.5	.1	.0	.0		1.1	
	11-21	*	.0	.0	.0	.1	.4	.1	.0	.0		.7	
	22+	.0	.0	.0	.0	.0	.1	.1	.0	.0		.2	
	TOT %	*	.0	.1	.1	.5	1.1	.4	.0	.0	*	2.2	
5<10	0-3	*	.1	.1	*	.2	.3	*	.0	.0	.8	1.5	
	4-10	.0	*	.2	.7	2.9	2.6	.9	.3	.0		7.5	
	11-21	.0	.0	.0	.2	1.5	1.7	.4	.2	.0		4.1	
	22+	.0	.0	.0	.0	*	.1	*	*	.0		.2	
	TOT %	*	.1	.2	.9	4.6	4.7	1.5	.5	.0	.8	13.3	
10+	0-3	.4	.5	.5	1.0	1.9	1.4	1.1	.3	.0	4.7	11.9	
	4-10	.6	.6	1.5	4.3	20.2	19.1	3.8	.9	.0		51.0	
	11-21	*	.1	.2	1.0	8.6	9.5	1.2	*	.0		20.6	
	22+	.0	.0	.0	.0	.2	.2	*	.0	.0		.5	
	TOT %	1.0	1.1	2.1	6.3	30.9	30.4	6.2	1.3	.0	4.7	84.0	
	TOT OBS												2131
	TOT PCT	1.1	1.2	2.4	7.3	36.1	36.4	8.2	1.8	.0	5.5	100.0	

AUGUST

PERIOD: (PRIMARY) 1923-1972
(OVER-ALL) 1957-1972

AREA 0006 MATUNA ISLAND
3.6N 107.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.1	.0	.7	5.9	12.1	3.6	3.3	1.3	.7	.3	28.1	71.9	306
06&09	.0	.6	1.9	4.6	12.0	6.5	2.2	1.2	.0	.0	29.0	71.0	394
12&15	1.6	.0	.6	5.6	8.9	4.4	3.2	.0	.0	.0	25.4	74.6	240
18&21	.5	.0	1.0	6.2	10.5	7.2	3.8	1.0	.5	.0	30.6	69.4	209
TOT	6	2	14	60	120	58	33	10	3	1	307	780	1087
PCT	.6	.2	1.3	5.5	11.0	5.3	3.0	.9	.3	.1	28.2	71.8	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
00&03	.0	.2	.4	2.1	11.1	86.3	332
06&09	.1	.0	.0	1.9	13.4	84.6	487
12&15	.7	.0	.0	2.5	17.0	79.9	448
18&21	.2	.2	.2	2.4	11.8	85.2	492
TOT	5	2	3	47	285	1817	3159
PCT	.2	.1	.1	2.2	13.2	84.2	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 <5000	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.3	1.4	7.2	21.8	70.7	294
06&09	.3	2.6	8.0	22.8	69.1	311
12&15	1.7	2.9	10.9	16.3	72.8	234
18&21	.5	1.5	9.3	23.0	67.5	200
TOT	6	22	94	220	732	1044
PCT	.6	2.1	8.8	21.1	70.1	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
95/99	.0	.0	.0	.0	.1	.1	.0	.0	2	.2
90/94	.0	.0	.0	.0	1.2	.2	.2	.1	17	1.7
85/89	.0	.0	.0	.3	3.1	10.2	2.5	.4	160	16.5
80/84	.0	.0	.0	.1	.9	31.4	34.5	8.5	733	75.4
75/79	.0	.0	.0	.0	.0	.3	3.5	2.2	58	6.0
70/74	.0	.0	.0	.0	.0	.0	.0	.2	2	.2
TOTAL	0	0	0	3	51	410	395	111	972	100.0
PCT	.0	.0	.0	.3	5.3	42.2	40.6	11.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.1	.2	.0	.0	.0	.0	.0
.0	.0	.0	.1	.4	.7	.1	.0	.0	.1
.2	.4	.3	.6	6.8	6.7	.4	.0	.0	.9
.9	.9	2.3	4.5	27.4	27.0	6.9	1.0	.0	3.7
.2	.0	.1	.5	1.1	1.9	1.4	.7	.0	.1
.0	.0	.0	.0	.0	.1	.1	.0	.0	.0
1.3	1.3	2.6	5.9	36.3	37.2	8.9	1.7	.0	4.8

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	93	88	86	82	79	76	74	82.8	646
06&09	95	91	89	84	80	77	74	84.0	964
12&15	96	88	85	82	79	77	74	82.3	530
18&21	88	84	84	82	79	75	75	81.8	692
TOT	96	90	87	83	79	77	74	82.8	2812

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.4	.7	38.3	46.0	14.6	82	274
06&09	.0	1.0	14.2	53.2	24.1	7.5	77	295
13&15	.0	.0	9.5	43.8	42.0	10.6	80	226
18&21	.0	.0	.0	30.7	54.5	14.9	83	202
TOT	0	4	52	423	402	116	80	997

PERIOD: (PRIMARY) 1923-1972
(OVER-ALL) 1857-1972

AREA 0006 NATUNA ISLAND
3.6N 107.0E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.1	.0	.0	.0	1	.0	.1
11/13	.0	.0	.1	.1	.1	.1	5	.0	.4
9/10	.0	.0	.0	.0	.1	.1	2	.0	.1
7/8	.0	.0	.1	.1	.2	.1	8	.0	.6
6	.0	.0	.1	.1	.1	.0	4	.0	.3
5	.0	.1	.1	.8	.9	.0	27	.0	1.9
4	.0	.0	.8	1.5	.6	.0	41	.0	2.9
3	.0	.1	.2	1.3	.2	.0	25	.0	1.8
2	.0	.1	5.0	4.3	.4	.0	142	.0	10.0
1	.0	.0	3.9	2.4	.0	.0	89	.0	6.2
0	.0	.5	22.1	1.9	.1	.0	351	.0	24.6
-1	.0	.4	12.1	.7	.0	.0	187	.0	13.1
-2	.0	1.3	16.6	.4	.0	.0	260	.0	18.2
-3	.0	1.2	5.3	.1	.0	.0	93	.0	6.5
-4	.0	1.5	5.0	.1	.0	.0	93	.0	6.5
-5	.1	2.3	1.3	.1	.0	.0	54	.0	3.8
-6	.0	.9	.0	.0	.0	.0	13	.0	.9
-7/-8	.4	1.1	.1	.0	.0	.0	23	.0	1.6
-9/-10	.3	.1	.1	.0	.0	.0	6	.0	.4
-11/-13	.1	.1	.0	.0	.0	.0	2	.0	.1
TOTAL	12	135	1037	197	40	3	1426	0	1426
PCT	.8	9.5	72.7	13.8	2.8	.4	100.0		100.0

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.3	.0	.0	.0	.0	1.3
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.3	.0	.0	.0	.0	1.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.0	.0	.0	.0	.0	.1
1-2	.2	1.3	.0	.0	.0	.0	1.5
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.3	.0	.0	.0	.0	1.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.4	.0	.0	.0	.0	1.0
1-2	.2	1.5	.2	.0	.0	.0	1.9
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.2	.0	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	2.2	.2	.0	.0	.0	3.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.8	.0	.0	.0	.0	.8
1-2	1.0	1.7	.5	.0	.0	.0	3.3
3-4	.0	1.5	.5	.0	.0	.0	1.9
5-6	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	4.0	1.0	.0	.0	.0	6.1

PERIOD: (OVER-ALL) 1963-1972 AUJUST AREA 0006 NATUNA ISLAND

TABLE 18 (CONT) 3.6N 107.0E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.3	.0	.0	.0	.0	1.6
1-2	.6	13.6	2.1	.0	.0	.0	16.3
3-4	.2	5.5	5.7	.2	.0	.0	11.6
5-6	.0	1.3	1.6	.0	.0	.0	2.8
7	.0	.0	.9	.0	.0	.0	.9
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	21.7	10.6	.2	.0	.0	33.5

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.9	.2	.0	.0	.0	1.5
1-2	.9	13.0	2.5	.0	.0	.0	16.3
3-4	.0	4.2	7.4	.1	.0	.0	11.6
5-6	.0	1.9	4.1	.0	.0	.0	6.0
7	.0	.0	1.5	.2	.0	.0	1.7
8-9	.0	.0	.2	.1	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	19.9	16.3	.3	.0	.0	37.4

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.0	.0	.0	.0	.0	1.6
1-2	.5	4.0	.6	.0	.0	.0	5.0
3-4	.0	1.6	.4	.0	.0	.0	2.0
5-6	.0	.2	.3	.0	.0	.0	.6
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	6.8	1.5	.2	.0	.0	9.5

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.2	.0	.0	.0	.0	.2	
1-2	.0	.2	.0	.0	.0	.0	.2	
3-4	.0	.1	.2	.0	.0	.0	.3	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.5	.2	.0	.0	.0	.8	93.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.8	4.6	.2	.0	.0	.0	13.7	
1-2	3.0	36.4	6.3	.0	.0	.0	45.7	
3-4	.2	12.8	14.2	.2	.0	.0	27.4	
5-6	.0	3.7	6.0	.0	.0	.0	9.7	
7	.0	.0	2.6	.2	.0	.0	2.8	
8-9	.0	.0	.5	.2	.0	.0	.7	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	12.1	57.3	29.7	.7	.0	.0	100.0	431

PERIOD: (OVER-ALL) 1949-1972 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.1	32.8	20.8	5.6	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	519	3
6-7	.0	2.0	8.3	5.1	1.2	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	138	4
8-9	.0	.2	..	1.4	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	5
10-11	.0	.0	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	6
12-13	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	5
>13	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDET	8.3	3.0	2.4	.7	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	120	1
TOTAL	100	307	257	107	27	8	1	0	0	0	0	0	0	0	0	0	0	0	0	807	3
PCT	12.4	38.0	31.8	13.3	3.3	1.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1922-1972
(OVER-ALL) 1856-1972

AREA 0006 NATUNA ISLAND
3.6N 106.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	1.8	3.5	3.5	.0	.0	.0	.0	8.8	3.5	.0	.0	.0	.0		.0	87.7
NE	1.6	3.1	.8	.0	.0	.0	.0	5.5	3.1	7.0	.0	.0	.0		.0	84.4
E	2.6	.0	.5	.0	.0	.0	.0	7.1	4.5	1.9	.0	.0	.0		.0	86.4
SE	3.1	.0	.5	.0	.0	.0	.0	3.6	3.1	4.6	.0	.0	.2		.0	89.6
S	.8	.9	.9	.0	.0	.0	.0	2.7	.7	4.0	.0	.0	1.4		.0	91.3
SW	2.5	1.6	1.1	.0	.0	.0	.0	5.0	1.5	2.0	.0	.0	.8		.0	90.9
W	8.8	2.8	.7	.0	.0	.0	.0	12.2	3.9	2.4	.0	.0	1.3		.0	80..
NW	15.9	3.2	2.5	.0	.0	.0	.0	21.7	12.7	5.7	.0	.0	.0		.0	62.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	1.3	.0	.0	.0	.0	.0	.0	1.3	2.6	5.3	.0	.0	2.6		.0	88.2
TOT PCT	2.9	1.4	1.1	.0	.0	.0	.0	5.4	2.1	3.1	.0	.0	1.0		.0	88.6
TOT OBS:	1495															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.2	1.6	1.4	.0	.0	.0	.0	6.0	3.5	.9	.0	.0	.7		.0	89.1
06&09	2.7	1.7	1.5	.0	.0	.0	.0	5.8	1.7	.2	.0	.0	1.7		.0	90.6
12&15	2.2	1.6	1.3	.0	.0	.0	.0	5.1	1.9	6.0	.0	.0	1.0		.0	86.7
18&21	3.6	.8	.0	.0	.0	.0	.0	4.4	1.1	6.6	.0	.0	.5		.0	87.9
TOT PCT	3.0	1.4	1.0	.0	.0	.0	.0	5.4	2.1	3.1	.0	.0	1.0		.0	88.7
TOT OBS:	1525															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.7	1.4	.1	.0	.0	.0		2.2	5.7	2.1	2.6	.5	2.6	3.3	1.0	3.2	2.9
NE	.9	1.3	.2	.0	.0	.0		2.4	5.1	2.1	.2	2.5	2.9	3.5	1.0	2.4	1.7
E	.7	1.5	.1	.0	.0	.0		2.3	5.3	1.9	.9	3.0	2.9	2.3	1.5	2.4	1.7
SE	.9	5.4	.6	.0	.0	.0		6.9	6.8	7.6	8.1	7.3	4.8	6.1	7.8	7.2	6.6
S	2.7	19.7	7.1	.1	.0	.0		29.5	8.5	30.2	33.3	33.5	27.0	25.2	34.3	26.0	30.2
SW	2.9	24.6	10.2	.3	*	.0		38.0	8.9	37.4	43.8	34.3	43.0	37.8	40.4	37.1	40.0
W	1.0	5.7	2.2	.2	*	.0		9.2	8.6	8.8	8.8	10.4	7.5	11.4	6.1	9.5	7.4
NW	1	2.0	.5	.1	.0	.0		2.9	7.6	3.8	.9	2.0	3.4	2.6	2.0	3.6	3.0
VAR	J	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.6							6.7	.0	6.2	1.7	6.6	5.9	7.8	5.9	8.7	6.4
TOT OBS	475	1754	998	21	1	0	2849		7.7	536	117	639	306	411	102	412	326
TOT PCT	16.7	61.6	21.0	.7	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)				
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21	
N	1.5	.6	.1	.0	.0		2.2	3.7	2.1	1.2	2.9	3.0	
NE	1.8	.6	.0	.0	.0		2.4	3.1	1.8	2.6	3.0	2.1	
E	1.7	.6	*	.0	.0		2.3	3.3	1.7	3.0	2.1	2.1	
SE	3.8	3.1	*	.0	.0		6.9	6.8	7.7	6.5	6.4	6.9	
S	10.7	17.5	1.4	.0	.0		29.5	8.5	30.7	31.4	27.0	27.8	
SW	12.9	22.8	2.3	*	.0		38.0	8.9	38.6	37.1	38.3	38.4	
W	3.9	4.6	.7	*	.0		9.2	8.6	8.8	9.4	10.3	8.6	
NW	1.6	1.1	.1	*	.0		2.9	7.6	3.2	2.5	2.5	3.4	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	6.6						6.7	.0	5.4	8.3	7.4	7.7	
TOT OBS	1266	1451	130	2	0	2849		7.7	653	943	513	738	
TOT PCT	44.4	50.9	4.6	.1	.0		100.0		100.0	100.0	100.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1922-1972
(OVER-ALL) 1856-1972

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	5.4	8.0	65.1	20.8	.8	.0	.0	7.9	100.0	653
06&09	6.3	10.3	58.7	23.4	1.3	.0	.0	8.1	100.0	945
12&15	7.4	9.6	60.6	22.2	.2	.0	.0	7.7	100.0	513
18&21	7.7	11.9	62.6	17.2	.4	.1	.0	7.1	100.0	738
TOT	190	286	1753	598	21	1	0	7.7		2849
PCT	6.7	10.0	61.5	21.0	.7	*	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DI	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.5	.2	.7	.4		4.8
NE	.4	.8	.7	.6		4.9
E	.7	.6	.6	.3		4.4
SE	1.2	1.0	2.5	1.8		5.3
S	4.6	6.6	13.7	5.8		5.2
SW	4.5	8.1	16.5	7.6		5.3
W	1.4	2.6	4.2	3.4		5.4
NW	.0	.5	1.1	1.0		6.2
VAR	.0	.0	.0	.0		.0
CALM	1.1	1.7	1.6	1.0		4.6
TOT OBS	142	218	411	214	985	5.2
TOT PCT	14.4	22.1	41.7	21.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT.NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.1	.6	.0	.3	.0	.0	.0	.9	
NE	.0	.0	.1	.1	.5	.1	.2	.0	.0	.0	1.4	
E	.0	.0	.0	.3	.2	.2	.0	.0	.0	.0	1.3	
SE	.0	.0	.4	.5	.9	.3	*	.0	.0	.0	4.5	
S	.0	.0	.4	1.8	3.4	1.9	.6	.2	.1	.1	22.4	
SW	*	.1	.6	2.1	3.1	1.8	1.0	.3	*	.0	27.7	
W	.2	.2	.5	1.0	1.7	.5	.1	.0	.0	.0	7.4	
NW	.1	.0	.1	.7	.3	*	*	.0	.0	.0	1.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.1	.2	.3	.3	.0	.1	.0	.0	4.3	
TOT OBS	3	2	22	66	108	51	21	6	1	1	704	985
TOT PCT	.3	.2	2.2	6.7	11.0	5.2	2.1	.6	.1	.1	71.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.3	.3	.3	.3	.3	.3	.3	.3
* OR >5000	.7	.9	.9	.9	.9	.9	.9	.9
* OR >3500	2.2	2.9	3.0	3.0	3.0	3.0	3.0	3.0
* OR >2000	6.4	8.0	8.2	8.2	8.2	8.2	8.2	8.2
* OR >1000	13.6	18.1	18.9	18.9	18.9	18.9	18.9	18.9
* OR >600	16.7	24.0	25.3	25.4	25.5	25.5	25.5	25.5
* OR >300	17.4	25.4	27.2	27.5	27.6	27.7	27.7	27.7
* OR >150	17.4	25.5	27.4	27.7	27.8	27.9	27.9	27.9
* OR > 0	17.4	25.7	27.7	28.0	28.1	28.2	28.2	28.2
TOTAL	175	259	279	282	283	284	284	284

TOTAL NUMBER OF OBS: 1006 PCT FREQ NH <5/8: 71.8

TABLE 7A

PERCENTAGE FREQ OF COW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
5.6	14.6	20.5	17.8	13.2	8.9	7.6	4.9	7.4	.1	1080

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.1	.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	*	.1	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.0	*	.1	.0	.0	.0	.1	
1<2	PCP	.0	.0	.0	.0	.1	.1	.1	.1	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	*	.2	.2	.1	.1	.0	.0	.5	
2<5	PCP	.0	.1	.0	*	.1	.1	.5	.2	.0	.0	.9	
	NO PCP	.0	.1	.0	.1	.6	.6	.1	.0	.0	.1	1.6	
	TOT %	.0	.1	.0	.1	.7	.7	.6	.2	.0	.1	2.5	
5<10	PCP	.1	.1	.1	.2	.4	1.0	.3	.3	.0	.0	2.4	
	NO PCP	.4	.4	.2	1.1	4.3	6.0	1.6	.6	.0	.8	15.5	
	TOT %	.5	.5	.4	1.3	4.7	7.0	1.9	.8	.0	.8	17.9	
10+	PCP	.1	.0	.1	.1	.2	.7	.3	.1	.0	.1	1.6	
	NO PCP	1.3	1.6	2.2	5.4	24.3	29.8	7.3	1.5	.0	4.1	77.4	
	TOT %	1.3	1.6	2.2	5.5	24.5	30.6	7.6	1.6	.0	4.1	79.0	
	TOT OBS												1494
	TOT PCT	1.8	2.1	2.6	6.9	30.1	38.4	10.3	2.6	.0	5.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	*	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	*	*	*	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	*	*	*	.0	.0	.0	.1	
1<2	0-3	.0	.0	.0	.0	*	*	.0	.0	.0	.0	*	
	4-10	.0	.0	.0	*	.2	.1	.0	*	.0		.3	
	11-21	*	.0	.0	.0	*	.1	*	*	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.0	.0	*	.2	.2	*	.1	.0	.0	.6	
2<5	0-3	.0	.0	*	*	*	*	.0	.0	.0	.1	.3	
	4-10	*	*	.0	.1	.4	.5	.3	.2	.0		1.6	
	11-21	.0	*	.0	*	.2	.2	.2	.0	.0		.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.1	*	.2	.7	.8	.5	.2	.0	.1	2.6	
5<10	0-3	.2	.2	.1	.1	.4	.4	.0	.0	.0	.7	2.1	
	4-10	.2	.2	.2	.9	2.6	3.6	.7	.3	.0		8.7	
	11-21	*	.0	.0	.1	1.3	1.8	.7	.4	.0		4.3	
	22+	.0	.0	.0	.0	*	.2	.1	.0	.0		.3	
	TOT %	.4	.4	.3	1.1	4.3	6.0	1.5	.7	.0	.7	15.4	
10+	0-3	.6	.7	.5	.7	1.8	2.3	1.1	.3	.0	5.9	13.8	
	4-10	.9	1.1	1.4	4.3	16.5	20.3	4.8	1.7	.0		50.9	
	11-21	*	.2	.1	.4	5.9	8.3	1.0	.2	.0		16.1	
	22+	.0	.0	.0	.0	.1	.2	.2	.0	.0		.4	
	TOT %	1.4	2.0	2.0	5.4	24.2	31.1	7.1	2.1	.0	5.9	81.3	
	TOT OBS												2069
	TOT PCT	1.9	2.5	2.2	6.7	29.5	38.0	9.3	3.1	.0	6.8	100.0	

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PERIOD: (PRIMARY) 1922-1972
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.3	.6	1.9	8.0	10.3	4.2	1.6	.6	.0	.3	28.0	72.0	311
06&09	.0	.0	3.3	6.0	9.0	6.6	2.0	.7	.3	.0	27.9	72.1	301
12&15	.0	.0	1.4	5.7	11.0	3.3	2.9	.0	.0	.0	24.4	75.6	209
18&21	.8	.0	1.3	5.0	11.7	5.0	1.7	.8	.0	.4	26.8	73.2	239
TOT	3	2	22	67	110	52	21	6	1	2	286	774	1060
PCT	.3	.2	2.1	6.3	10.4	4.9	2.0	.6	.1	.2	27.0	73.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.2	.2	.4	2.6	15.2	81.4	538
06&09	.0	.2	.3	2.2	14.4	82.9	624
12&15	.0	.0	1.7	3.2	15.0	80.1	412
18&21	.0	.0	.2	2.5	16.6	80.8	525
TOT	1	2	12	54	321	1709	2099
PCT	*	.1	.6	2.6	15.3	81.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.3	3.0	12.8	17.6	69.6	296
06&09	.0	3.8	11.0	18.6	70.4	291
12&15	.0	1.5	11.3	16.4	72.3	195
18&21	.9	2.2	8.9	19.6	71.4	224
TOT	3	28	112	182	712	1006
PCT	.3	2.8	11.1	18.1	70.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.1	1.0	.7	.1	.0	18	1.9
85/89	.0	.0	.0	.4	9.1	9.2	2.8	.5	150	16.0
80/84	.0	.0	.0	.1	1.4	32.2	36.2	6.7	719	76.6
75/79	.0	.0	.0	.0	.0	.4	2.2	2.8	51	5.4
70/74	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	0	0	0	6	51	399	388	95	939	100.0
PCT	.0	.0	.0	.6	5.4	42.5	41.3	10.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.1	.0	.2	.7	.6	.2	.0	.0	.1
.3	.3	.5	.9	5.9	6.3	.9	.1	.0	.7
.9	1.9	1.8	4.8	22.8	29.2	8.3	1.8	.0	5.1
.2	.1	.4	.4	.6	1.4	1.4	.9	.0	.0
.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
1.4	2.5	2.7	6.3	30.1	37.5	10.8	2.8	.0	6.0

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	91	88	86	83	79	75	74	82.6	649
06&09	94	91	89	84	79	76	72	83.9	920
12&15	88	86	85	82	79	77	75	82.2	516
18&21	88	85	84	82	79	76	73	81.7	739
TOT	94	90	87	82	79	76	72	82.7	2824

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.4	2.5	37.8	47.7	11.7	81	283
06&09	.0	1.5	14.3	52.9	23.9	7.4	76	272
12&15	.0	.0	2.1	48.3	42.6	10.0	81	190
18&21	.0	.5	.9	33.5	51.8	13.3	82	218
TOT	0	6	32	410	394	101	80	963

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.1	.1	.1	4	.0	.3
9/10	.0	.0	.0	.1	.0	.1	.1	4	.0	.3
7/8	.0	.0	.0	.1	.2	.3	.0	8	.0	.6
6	.0	.0	.0	.1	.1	.1	.0	4	.0	.3
5	.0	.0	.0	.5	.4	.9	.0	26	.0	1.9
4	.0	.0	.0	1.0	2.8	.6	.1	62	.0	4.4
3	.0	.0	.0	.3	1.0	.1	.0	19	.0	1.4
2	.0	.0	.1	5.0	4.0	.1	.0	129	.0	9.2
1	.0	.0	.0	3.4	2.2	.0	.0	79	.0	5.6
0	.0	.1	.5	21.2	2.9	.0	.0	347	.0	24.7
-1	.0	.0	.1	12.3	.5	.0	.0	181	.0	12.9
-2	.0	.1	1.6	15.9	.5	.0	.0	254	.0	18.1
-3	.0	.0	.6	4.8	.2	.0	.0	78	.0	5.6
-4	.0	.0	3.3	4.6	.1	.0	.0	1	.0	8.0
-5	.0	.0	2.1	1.4	.0	.0	.0	50	.0	3.6
-6	.0	.1	1.1	.1	.0	.0	.0	19	.0	1.4
-7/-8	.0	.6	.6	.2	.0	.0	.0	20	.0	1.4
-9/-10	.0	.3	.0	.1	.0	.0	.0	5	.0	.4
-11/-13	.1	.1	.1	.0	.0	.0	.0	3	.0	.2
TOTAL	1	17	141	999	211	33	3	1405	0	1405
PCT	.1	1.2	10.0	71.1	15.0	2.3	.2	100.0		100.0

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.0	.0	.0	.0	.0	.3
1-2	.0	.7	.0	.0	.0	.0	.7
3-4	.2	.0	.0	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	.7	.0	.0	.0	.0	1.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	.0	.0	.0	.0	.0	.8
1-2	.8	.9	.0	.0	.0	.0	1.7
3-4	.1	.3	.0	.0	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	1.2	.0	.0	.0	.0	2.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.8	.0	.0	.0	.0	.8
3-4	.0	.3	.0	.0	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.1	.0	.0	.0	.0	1.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5
1-2	.1	2.1	.1	.0	.0	.0	2.2
3-4	.0	1.3	.3	.0	.0	.0	1.7
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	4.0	.4	.0	.0	.0	4.4

PERIOD: (OVER-ALL) 1963-1972

SEPTEMBER

TABLE 18 (CONT)

AREA 0006 NATUNA ISLAND 3.6N 106.9E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.5	.0	.0	.0	.0	1.5
1-2	1.0	10.1	2.8	.0	.0	.0	13.9
3-4	.0	7.5	2.9	.0	.0	.0	10.4
5-6	.[illegible]	.5	3.5	.0	.0	.0	4.0
7	.0	.0	.8	.3	.0	.0	1.1
8-9	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	19.6	10.3	.3	.0	.0	31.2

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	1.7	.0	.0	.0	.0	2.4
1-2	1.0	12.6	5.3	.0	.0	.0	18.8
3-4	.0	4.9	6.9	.3	.0	.0	12.1
5-6	.0	1.1	3.5	.3	.0	.0	4.8
7	.0	.0	1.2	.0	.0	.0	1.2
8-9	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	20.2	17.2	.6	.0	.0	39.8

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.2	.0	.0	.0	.0	1.2
1-2	.4	4.3	1.2	.0	.0	.0	5.9
3-4	.3	1.2	.9	.2	.0	.0	2.5
5-6	.0	.4	.5	.0	.0	.0	1.0
7	.0	.5	.3	.0	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT		7.6	2.8	.2	.0	.0	11.3

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.8	.0	.0	.0	.0	.8	
3-4	.0	.3	.5	.0	.0	.0	.8	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.3	.0	.0	.0	.3	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.0	.8	.0	.0	.0	1.8	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	8.4	4.8	.0	.0	.0	.0	13.3	
1-2	3.3	32.4	9.2	.0	.0	.0	44.9	
3-4	.5	15.6	11.5	.5	.0	.0	28.1	
5-6	.0	2.0	7.4	.3	.0	.0	9.7	
7	.0	.5	2.6	.3	.0	.0	3.3	
8-9	.0	.0	.8	.0	.0	.0	.8	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								392
TOT PCT	12.2	55.4	31.4	1.0	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	6.2	30.9	21.3	3.0	1.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	505	2
6-7	.1	2.2	7.6	4.6	2.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	133	4
8-9	.0	.3	.5	1.0	.8	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	6
10-11	.0	.4	.3	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	4
12-13	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	4
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	8.7	2.4	2.1	.1	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	107	1
TOTAL	117	283	248	85	34	9	2	0	1	0	0	0	0	0	0	0	0	0	0	779	3
PCT	15.0	36.3	31.8	10.9	4.4	1.2	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1920-1972
(OVER-ALL) 1855-1972

AREA 0006 NATUNA ISLAND
3.6N 107.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.0	.9	.5	.0	.0	.0	.0	3.4	3.2	2.5	.0	.0	.0		.0	90.9
NE	2.4	4.0	.5	.0	.0	.0	.0	6.9	6.3	2.2	.0	.0	1.1		.0	84.6
E	5.9	1.6	1.1	.0	.0	.0	.0	8.6	8.6	2.7	.0	.0	.0		.0	80.1
SE	.6	3.9	1.3	.0	.0	.0	.0	5.8	1.3	3.2	.0	.0	1.9		.0	87.8
S	3.5	.8	1.3	.0	.0	.0	.0	5.5	2.8	1.5	1.0	.0	2.1		.0	87.1
SW	4.8	2.7	1.4	.0	.0	.0	.0	8.9	3.3	1.6	.0	.0	1.4		.0	84.7
W	6.6	2.4	1.5	.0	.0	.0	.0	10.6	3.6	1.5	.0	.0	1.3		.0	82.9
NW	7.0	5.4	1.6	.0	.0	.0	.0	14.0	3.2	1.0	.0	.0	.8		.0	81.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	1.3	.7	.0	.0	.0	.0	.0	2.0	1.3	2.0	.0	.0	2.6		.0	92.1
TOT PCT	4.1	2.4	1.1	.0	.0	.0	.0	7.6	3.7	1.9	.1	.0	1.3		.0	85.5
TOT OBS:	1556															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00G03	4.4	2.1	.2	.0	.0	.0	.0	6.7	3.7	.5	.0	.0	2.1		.0	87.1
06G09	4.7	3.3	1.2	.0	.0	.0	.0	9.3	3.1	.0	.4	.0	1.0		.0	86.2
12G15	3.3	3.0	.9	.0	.0	.0	.0	7.1	3.6	2.4	.0	.0	1.2		.0	86.1
18G21	4.2	1.4	2.3	.0	.0	.0	.0	7.9	4.5	5.9	.0	.0	.8		.0	81.4
TOT PCT	4.2	2.5	1.1	.0	.0	.0	.0	7.8	3.7	1.9	.1	.0	1.3		.0	85.4
TOT OBS:	1612															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.0	4.5	.5	*	.0	.0		7.0	5.8	6.5	5.2	6.9	7.3	7.4	17.6	6.3	6.1
NE	1.9	6.8	1.3	.0	.0	.0		10.0	6.4	11.3	12.1	9.6	6.4	9.8	15.0	10.1	10.7
E	1.6	3.2	.4	.1	.0	.0		5.3	5.7	4.9	7.5	6.6	3.8	5.1	4.2	5.4	4.0
SE	1.5	2.6	.2	*	.0	.0		4.3	5.2	5.1	6.2	4.4	3.8	3.6	6.8	3.6	3.4
S	2.1	8.4	2.9	.3	.0	.0		13.3	7.8	15.8	10.6	13.4	14.0	12.4	10.8	11.7	13.3
SW	2.8	16.9	5.7	.7	*	.0		26.1	8.5	25.1	27.9	26.8	29.9	24.3	22.6	24.3	27.4
W	1.9	9.5	2.8	.3	.1	.0		14.5	8.3	12.2	15.2	14.6	18.2	16.0	10.8	13.8	13.5
NW	1.8	5.3	1.1	.1	.0	.0		8.3	6.8	7.4	8.5	8.2	10.7	7.8	8.9	8.5	7.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	11.2							11.2	.0								
TOT OBS	779	1669	422	44	3	0	2917		6.6	11.7	6.9	9.4	5.8	13.6	3.2	16.4	14.2
TOT PCT	26.7	57.2	14.5	1.5	.1	.0		100.0		496	130	720	326	425	95	402	323
										100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.8	2.1	.1	.0	.0		7.0	5.8	6.2	7.0	9.2	6.2
NE	6.1	3.8	.1	.0	.0		10.0	6.4	11.5	8.6	10.7	10.3
E	3.8	1.4	.1	.0	.0		5.3	5.7	5.5	5.8	5.0	4.8
SE	3.2	1.0	.1	.0	.0		4.3	5.2	5.3	4.3	4.2	3.5
S	6.5	6.0	.8	.0	.0		13.3	7.8	14.7	13.6	12.1	12.4
SW	10.7	13.8	1.4	.2	.0		26.1	8.5	25.6	27.7	24.0	25.7
W	6.4	7.1	.9	.1	.0		14.5	8.3	12.8	15.7	13.0	13.7
NW	4.9	3.0	.4	.0	.0		8.3	6.8	7.6	9.0	8.0	7.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	11.2						11.2	.0				
TOT OBS	1677	1118	113	9	0	2917		6.6	10.7	8.3	11.7	13.4
TOT PCT	57.5	38.3	3.9	.3	.0		100.0		626	1046	320	725
									100.0	100.0	100.0	100.0

OCTOBER

PERIOD: (PRIMARY) 1920-1972
(OVER-ALL) 1855-1972

AREA 0006 NATUNA ISLAND
3.6N 107.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	10.7	16.1	56.5	15.7	.6	.3	.0	6.5	100.0	626
06&09	8.3	15.0	56.9	18.3	1.5	.0	.0	7.1	100.0	1046
12&15	11.7	16.7	57.7	11.5	2.3	.0	.0	6.5	100.0	520
18&21	15.4	14.8	57.9	10.1	1.7	.1	.0	6.0	100.0	725
TOT	327	452	1669	422	44	3	0	6.6		2917
PCT	11.2	15.5	57.2	14.5	1.5	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.0	2.0	2.5	.8		4.8
NE	2.3	3.3	5.7	1.7		4.9
E	.9	1.7	3.4	1.1		5.1
SE	.9	1.5	2.1	.7		4.7
S	1.7	1.9	6.2	3.5		5.6
SW	2.2	3.6	10.9	5.6		5.7
W	1.3	2.0	7.1	3.4		5.8
NW	.9	1.3	4.0	1.9		5.6
VAR	.0	.0	.0	.0		.0
CALM	2.6	3.0	4.1	1.2		4.4
TOT OBS	139	205	463	201	1008	5.3
TOT PCT	13.8	20.3	45.9	19.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT)/NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.5	.6	.2	.1	.0	.0	.0	4.9	
NE	.0	.0	.0	.8	1.6	1.0	.0	.0	.0	.3	9.3	
E	.0	.0	.2	.8	.9	.5	*	.0	.0	.0	4.7	
SE	.1	.1	.0	.3	.5	.2	.2	.0	.0	.0	3.7	
S	.1	.1	.2	1.1	1.9	.6	.5	*	.1	.0	8.8	
SW	.0	.1	.8	1.7	2.6	1.9	.4	.1	.2	.0	14.5	
W	.1	.0	.3	1.2	2.5	1.0	.2	.2	.1	.1	8.2	
NW	.1	.0	.1	.5	1.6	.4	.3	.0	.0	.1	4.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.1	.4	.7	.4	.1	.0	.0	.0	9.1	
TOT OBS	4	3	17	73	131	63	19	4	4	5	685	1008
TOT PCT	.4	.3	1.7	7.2	13.0	6.3	1.9	.4	.4	.5	68.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.6	.7	.9	.9	.9	.9	.9	.9
* OR >5000	.9	1.0	1.2	1.2	1.2	1.2	1.2	1.2
* OR >3500	2.7	3.1	3.3	3.3	3.3	3.3	3.3	3.3
* OR >2000	6.9	8.5	9.3	9.3	9.3	9.3	9.3	9.3
* OR >1000	16.3	20.5	21.9	22.0	22.0	22.0	22.0	22.0
* OR >600	20.5	26.8	29.0	29.2	29.2	29.3	29.3	29.3
* OR >300	21.3	28.4	30.6	30.9	30.9	31.0	31.0	31.0
* OR >150	21.3	28.5	30.8	31.1	31.1	31.2	31.2	31.2
* OR > 0	21.4	28.8	31.0	31.4	31.4	31.5	31.6	31.6
TOTAL	225	302	326	390	330	331	332	332

TOTAL NUMBER OF OBS: 1050

PCT FREQ NH <5/8: 68.4

TABLE 7A

PERCENTAGE FREQ OF COW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
4.0	13.1	19.3	18.6	12.6	9.2	6.9	6.7	9.3	.3	1139

OCTOBER

PERIOD: (PRIMARY) 1960-1972
(OVER-ALL) 1855-1972

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	*	*	.0	.0	.1	
	TOT %	.0	.0	.0	.1	.0	.0	.1	*	.0	.0	.2	
1/2<1	PCP	.0	.0	.0	.0	.0	*	*	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	*	*	*	*	.0	.0	.0	.1	
1<2	PCP	.0	.0	.0	.1	.1	.1	.1	.2	.0	.0	.5	
	NO PCP	.0	.0	.0	*	*	.0	.1	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.1	.1	.1	.2	.2	.0	.0	.6	
2<5	PCP	*	.2	.2	*	.1	.3	.2	.2	.0	.0	1.2	
	NO PCP	.2	.6	.2	.2	.4	.5	.2	.0	.0	.0	2.3	
	TOT %	.2	.7	.4	.2	.5	.8	.5	.2	.0	.0	3.5	
5<10	PCP	.1	.4	.3	.1	.2	.8	.5	.4	.0	.1	2.9	
	NO PCP	.9	1.6	1.0	1.0	2.6	4.9	2.5	1.3	.0	1.1	16.2	
	TOT %	1.1	1.9	1.2	1.1	2.8	5.1	3.0	1.6	.0	1.2	19.1	
10+	PCP	.1	.3	.1	.1	.3	1.0	.6	.4	.0	.1	2.8	
	NO PCP	9.7	9.2	4.3	3.5	8.8	17.8	10.2	5.6	.0	8.5	73.6	
	TOT %	9.8	9.5	4.4	3.5	9.0	18.8	10.8	6.0	.0	8.6	76.5	
	TOT OBS												1555
	TOT PCT	7.1	12.2	6.0	5.0	12.5	24.9	14.6	8.0	.0	9.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
	4-10	.0	.0	.0	.0	.0	.0	*	*	.0		*	
	11-21	.0	.0	.0	*	.0	.0	*	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.0	.0	*	.0	.0	.1	*	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	*	*	.0	.0	.0	.0		*	
	11-21	.0	.0	.0	.0	.0	*	*	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	*	*	*	*	.0	.0	.0	.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	*	.0	.0	.0	*	*	.0	.1	.0		.1	
	11-21	.0	.0	.0	.1	*	.1	.1	.1	.0		.4	
	22+	.0	.0	.0	.0	.0	*	*	.0	.0		*	
	TOT %	*	.0	.0	.1	.1	.1	.2	.2	.0	.1	.7	
2<5	0-3	.2	.1	.0	.0	.1	*	*	*	.0	.2	.7	
	4-10	.1	.3	.1	.1	.4	.7	.3	.1	.0		2.1	
	11-21	*	.2	.2	.0	*	.2	.1	.1	.0		.8	
	22+	.0	.0	*	*	.0	.0	*	.0	.0		.1	
	TOT %	.3	.6	.3	.2	.6	.9	.5	.2	.0	.2	3.7	
5<10	0-3	.3	.2	.2	.3	.5	.5	.1	.2	.0	1.1	3.4	
	4-10	.6	1.3	.7	.6	1.5	2.5	1.4	1.0	.0		9.7	
	11-21	.1	.2	.1	*	.5	1.1	.8	.2	.0		3.0	
	22+	.0	.0	*	.0	.2	.3	*	*	.0		.7	
	TOT %	.9	1.7	1.1	1.0	2.7	4.4	2.6	1.5	.0	1.1	16.8	
10+	0-3	1.6	1.6	1.4	1.2	1.0	1.8	1.4	1.7	.0	9.5	21.3	
	4-10	4.0	5.9	2.1	2.0	6.7	13.9	8.2	4.0	.0		46.7	
	11-21	.4	1.2	.3	.1	1.6	4.0	1.6	.8	.0		10.1	
	22+	.0	.0	*	.0	.1	.1	.1	*	.0		.8	
	TOT %	6.0	8.7	3.8	3.2	9.4	19.8	11.3	6.6	.0	9.5	78.5	
	TOT OBS												2101
	TOT PCT	7.3	11.0	5.2	4.5	12.8	25.2	14.6	8.5	.0	10.9	100.0	

OCTOBER

PERIOD: (PRIMARY) 1920-1972
(OVER-ALL) 1855-1972

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	2.6	3.9	10.7	5.8	1.6	1.0	.3	.6	26.6	73.4	308
06&09	.9	.3	1.5	7.9	13.1	5.5	2.0	.3	.3	.3	32.1	67.9	343
12&15	.0	.4	.9	9.9	10.8	6.0	2.6	.0	.4	.4	31.5	68.5	232
18&21	.5	.5	.9	7.2	14.0	5.4	1.8	.0	.5	.5	31.2	68.8	221
TOT	4	3	17	78	134	63	22	4	4	5	334	770	1104
PCT	.4	.3	1.5	7.1	12.1	5.7	2.0	.4	.4	.5	30.3	69.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.2	.2	.4	2.5	16.6	80.1	513
06&09	.1	.1	1.2	2.9	15.5	80.1	685
12&15	.2	.0	.5	6.2	19.0	74.1	436
18&21	.4	.0	.6	3.6	15.6	79.8	525
TOT	5	2	15	79	356	1702	2159
PCT	.2	.1	.7	3.7	16.5	78.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	2.7	9.0	19.4	71.6	299
06&09	.9	2.7	13.0	20.8	66.3	332
12&15	.0	1.8	14.6	19.6	65.8	219
18&21	.5	2.0	12.5	22.5	65.0	200
TOT	4	25	127	215	708	1050
PCT	.4	2.4	12.1	20.5	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
90/94	.0	.0	.0	.2	1.1	.3	.2	.0	18	1.8
85/89	.0	.0	.0	.0	3.3	10.3	1.9	.7	159	16.3
80/84	.0	.0	.0	.0	1.7	32.7	31.4	7.4	715	73.2
75/79	.0	.0	.0	.0	.0	.7	4.2	3.6	83	8.5
70/74	.0	.0	.0	.0	.0	.0	.0	.2	2	.2
TOTAL	0	0	0	2	60	430	369	116	977	100.0
PCT	.0	.0	.0	.2	6.1	44.0	37.8	11.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.2	.0	.0	.3	.5	.5	.1	.0	.3
	1.2	1.5	.8	.8	2.4	4.8	1.7	1.2	.0	1.8
	4.5	10.6	5.5	3.4	8.3	15.6	10.4	5.8	.0	9.0
	.3	.7	.5	.5	1.1	2.7	1.6	1.1	.0	.1
	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0
	6.0	13.0	6.8	4.6	12.3	23.5	14.3	8.3	.0	11.3

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	91	88	86	82	78	75	72	82.2	628
06&09	94	91	88	83	78	75	72	83.3	1031
12&15	90	86	84	82	79	76	74	81.7	533
18&21	88	85	84	82	79	75	70	81.4	734
TOT	94	90	87	82	78	75	70	82.3	2926

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	1.1	42.1	45.3	10.6	81	274
06&09	.0	.6	13.2	52.3	22.3	9.7	77	310
12&15	.0	.0	2.7	40.2	39.4	11.8	81	221
18&21	.0	.0	2.8	33.5	47.7	16.1	82	218
TOT	0	2	62	435	384	120	80	1023

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PERIOD: (PRIMARY) 1920-1972
(OVER-ALL) 1855-1972

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
9/10	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
7/8	.0	.0	.0	.3	.0	.3	.0	9	.0	.6
6	.0	.0	.0	.0	.1	.1	.0	3	.0	.2
5	.0	.0	.0	.3	.7	.3	.1	23	.0	1.5
4	.0	.0	.1	.9	1.9	.8	.0	55	.0	3.7
3	.0	.0	.0	.3	.9	.1	.0	21	.0	1.4
2	.0	.0	.1	3.8	3.9	.1	.0	118	.0	7.9
1	.0	.0	.0	3.3	1.9	.0	.0	77	.1	5.1
0	.0	.1	.5	15.5	2.5	.0	.0	275	.1	18.4
-1	.0	.0	.4	10.3	.7	.0	.0	166	.0	11.1
-2	.0	.1	1.9	18.4	.6	.1	.0	315	.0	21.1
-3	.0	.0	2.1	6.0	.2	.0	.0	124	.0	8.3
-4	.0	.2	4.2	5.7	.1	.0	.0	151	.0	10.1
-5	.0	.2	3.2	2.1	.1	.0	.0	84	.0	5.6
-6	.0	.1	1.1	.3	.0	.0	.0	24	.0	1.6
-7/-8	.1	.3	1.8	.2	.0	.0	.0	36	.0	2.4
-9/-10	.0	.1	.1	.0	.0	.0	.0	4	.0	.3
-11/-13	.1	.3	.0	.0	.0	.0	.0	5	.0	.3
TOTAL	2	21	23	1002	204	31	2	1492	2	1490
PCT	.1	1.4	1.5.4	67.2	13.7	2.1	.1	100.0	.1	99.9

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	.0	.0	.0	.0	.0	1.1
1-2	.4	2.4	.3	.0	.0	.0	3.1
3-4	.0	.6	.4	.0	.0	.0	1.0
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	3.0	.8	.0	.0	.0	5.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.4	.0	.0	.0	.0	2.1
1-2	1.1	5.2	1.6	.0	.0	.0	7.9
3-4	.0	4.1	1.6	.0	.0	.0	5.8
5-6	.0	.5	.1	.0	.0	.0	.7
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	9.4	3.6	.0	.0	.0	14.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	.3	.0	.0	.0	.0	1.2
1-2	.7	2.7	.5	.0	.0	.0	3.8
3-4	.3	.5	.0	.0	.0	.0	.7
5-6	.0	.3	.2	.0	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	3.6	.7	.0	.0	.0	6.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.3	.0	.0	.0	.0	.8
1-2	.3	2.0	.3	.0	.0	.0	2.6
3-4	.0	.7	.3	.0	.0	.0	1.0
5-6	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	3.1	.8	.0	.0	.0	4.4

PERIOD: (OVER-ALL) 1963-1972

OCTOBER

TABLE 18 (CONT)

AREA 0006 NATUNA ISLAND
3.6N 107.0E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.2	.0	.0	.0	.0	1.2
1-2	.5	4.2	.7	.0	.0	.0	5.3
3-4	.0	1.8	1.0	.0	.0	.0	2.7
5-6	.0	.2	.2	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	7.4	1.9	.0	.0	.0	9.7

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	2.4	.0	.0	.0	.0	3.2
1-2	.8	7.0	1.4	.0	.0	.0	9.2
3-4	.0	2.5	2.4	.0	.0	.0	4.9
5-6	.0	.6	.3	.0	.0	.0	.9
7	.0	.0	1.0	.0	.0	.0	1.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	12.6	5.1	.0	.0	.0	19.3

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	3.9	.0	.0	.0	.0	4.6
1-2	1.5	5.7	.7	.0	.0	.0	7.9
3-4	.0	1.7	1.3	.0	.0	.0	3.0
5-6	.0	.7	.0	.0	.0	.0	.7
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.1	12.0	2.3	.0	.0	.0	16.4

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.0	.2	.0	.0	.0	.0	1.2	
1-2	1.2	2.3	1.1	.0	.0	.0	4.6	
3-4	.0	1.8	1.1	.0	.0	.0	2.9	
5-6	.0	.3	.5	.3	.0	.0	1.1	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.1	4.7	2.7	.3	.0	.0	9.8	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	19.6	9.9	.0	.0	.0	.0	29.6	
1-2	7.1	31.1	6.4	.0	.0	.0	44.6	
3-4	.3	11.5	7.9	.0	.0	.0	19.6	
5-6	.0	2.6	1.8	.3	.0	.0	4.6	
7	.0	.0	1.5	.0	.0	.0	1.5	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	27.0	55.1	17.6	.3	.0	.0	100.0	392

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	9.5	31.2	18.5	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	499	2
6-7	.1	3.0	6.6	4.1	1.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	122	4
8-9	.1	.7	1.2	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	4
10-11	.0	.1	.5	.1	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	5
12-13	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	13.9	2.4	1.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	145	1
TOTAL	189	300	224	70	15	3	0	0	0	0	0	0	0	0	0	0	0	0	0	801	2
PCT	23.6	37.5	28.0	8.7	1.9	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1922-1972
(OVER-ALL) 1856-1972

AREA 0006 NATUNA ISLAND
3.5N 107.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	3.3	2.0	1.5	.0	.0	.0	.0	6.6	4.1	1.4	.3	.0	.0	.0		87.6
NE	4.6	2.4	1.5	.0	.0	.0	.0	7.9	3.8	1.2	.0	.0	.2	.2		86.8
E	4.1	.6	3.0	.0	.0	.0	.0	7.5	5.1	1.6	.0	.0	.0	.0		85.8
SE	7.0	3.5	2.2	.0	.0	.0	.0	12.3	7.5	2.2	.0	.0	.0	.0		78.1
S	8.8	1.8	.7	.0	.0	.0	.0	10.6	7.9	3.2	.0	.0	.9	.0		78.3
SW	12.2	2.0	1.7	.0	.0	.0	.0	15.9	2.7	2.4	.3	.0	.7	.0		78.0
W	9.5	3.1	2.3	.0	.0	.0	.0	14.2	7.4	1.4	.4	.0	.0	.0		76.7
NW	7.3	3.7	.9	.0	.0	.0	.0	11.9	3.3	.1	.7	.0	.0	.0		84.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	1.1	.0	.0	.0	.0	.0	1.1	.0	1.1	.0	.0	2.2	.0		95.6
TOT PCT	5.9	2.3	1.5	.0	.0	.0	.0	9.4	4.3	1.5	.2	.0	.3	.1		84.4
TOT OBS:	1504															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03	5.1	1.5	1.0	.0	.0	.0	.0	7.5	6.1	.2	.2	.0	.2	.0		85.6
06&09	7.3	2.7	1.1	.0	.0	.0	.0	10.7	3.7	.5	.0	.0	.0	.2		85.2
12&15	6.4	1.7	2.9	.0	.0	.0	.0	10.4	3.8	1.4	.3	.0	.6	.0		83.5
18&21	5.4	4.0	1.1	.0	.0	.0	.0	10.2	3.4	4.2	.3	.0	.6	.0		81.6
TOT PCT	6.1	2.5	1.5	.0	.0	.0	.0	9.7	4.3	1.5	.2	.0	.3	.1		84.1
TOT OBS:	1548															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.1	11.9	3.8	.3	.0	.0		17.8	8.1	16.9	18.8	17.7	19.5	18.7	22.0	17.1	15.1
NE	2.5	14.9	6.9	.3	.0	.0		24.2	8.8	25.4	22.5	24.8	25.3	26.0	22.9	22.9	20.6
E	1.4	5.0	.9	.1	.0	.0		7.4	7.1	7.9	7.3	7.2	5.2	6.7	5.9	10.2	7.4
SE	.9	2.8	.5	.0	.0	.0		4.1	6.3	4.5	4.4	4.8	3.9	3.0	5.9	1.8	6.2
S	1.8	4.8	.8	.0	.0	.0		7.3	6.2	7.9	9.6	6.6	6.5	4.8	10.0	7.3	10.1
SW	2.0	7.4	1.3	.2	.0	.0		10.9	7.2	12.1	7.3	11.0	12.8	12.0	10.4	8.1	10.6
W	1.9	6.0	1.6	.1	.0	.0		9.6	7.3	9.6	10.6	9.8	9.4	8.6	6.4	9.7	10.9
NW	2.2	6.3	1.8	.1	.0	.0		10.3	7.1	6.9	13.3	10.9	11.0	12.2	14.0	9.8	9.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.4							8.4	.0	8.7	6.2	7.1	6.3	8.0	2.5	13.1	9.7
TOT OBS	655	1672	478	31	0	0	2836		7.0	472	130	617	315	440	118	405	339
TOT PCT	23.1	59.0	16.9	1.1	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	7.9	8.6	1.2	.0	.0		17.8	6.1	17.4	18.3	19.4	16.2
NE	9.0	13.2	1.9	.1	.0		24.2	8.8	24.8	25.0	25.4	21.8
E	4.1	3.1	.1	.1	.0		7.4	7.1	7.8	6.5	6.5	8.9
SE	2.8	1.3	.1	.0	.0		4.1	6.3	4.5	4.5	3.6	3.8
S	4.5	2.8	*	.0	.0		7.3	6.2	8.3	6.5	5.9	8.6
SW	5.6	4.8	.4	*	.0		10.9	7.2	11.0	11.6	11.7	9.3
W	5.0	4.2	.3	*	.0		9.6	7.3	9.8	9.7	8.1	10.2
NW	5.6	4.4	.3	.0	.0		10.3	7.1	8.3	10.9	12.5	9.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	8.4						8.4	.0	8.1	6.9	6.8	11.6
TOT OBS	1500	1204	126	6	0	2836		7.0	602	932	558	744
TOT PCT	52.9	42.5	4.4	.2	.0		100.0		100.0	100.0	100.0	100.0

NOVEMBER

PERIOD: PRIMARY 1922-1972
(OVER-ALL) 1856-1972

AREA 0000 WATUNA ISLAND
3.5N 107.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00603	8.1	14.3	59.8	16.8	1.0	.0	.0	6.9	100.0	602
06609	6.9	13.7	59.1	19.0	1.3	.0	.0	7.4	100.0	932
12615	6.8	15.8	58.8	17.6	1.1	.0	.0	7.3	100.0	958
18621	11.6	15.6	58.2	13.7	.9	.0	.0	6.4	100.0	744
+OT	237	419	1672	478	31	0	0	7.0		2876
PCT	8.4	14.7	59.1	16.9	1.1	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2..	3.9	7.6	2.0		6.0
NE	3.4	6.7	12.0	6.2		5.3
E	2.5	5.7	4.3	1.3		4..
SE	.3	.5	1.5	1.4		6.1
S	.8	1.6	2.8	2.1		5.6
SW	.7	1.7	4.7	2.8		6.0
W	.7	1.1	3.5	2.5		6.0
NW	1.9	2.1	4.4	3.4		5.5
VAR	.0	.0	.0	.0		.0
CALM	1.2	1.6	2.8	.7		4.8
TOT OBS	124	208	430	233	995	5.4
TOT PCT	12.5	20.9	43.2	23.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT&NM >6/8) AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

WND DIR	000 .49	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	.1	.0	.9	1.6	2.0	1.6	.1	.2	.0	.0	10.5	
NE	.3	.1	.8	2.4	4.1	2.6	.3	.4	.0	.1	17.4	
E	.2	.1	.2	.6	1.4	.7	.0	.1	.0	.2	5.8	
SE	.1	*	.1	.7	.4	.2	*	.0	.0	.1	1.9	
S	.0	.1	.7	.9	.8	.3	.2	.0	.0	.1	4.6	
SW	.0	.0	.3	1.3	1.7	.8	.3	.1	.1	.0	5.5	
W	.0	.0	.2	.6	1.3	.9	.2	.1	.0	.0	4.6	
NW	.1	.0	.1	1.4	2.1	1.1	.2	.0	.0	.0	6.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.4	.6	.1	.0	.1	.0	.0	4.4	
TOT OBS	8	9	29	95	163	84	33	8	9	6	605	995
TOT PCT	.8	.9	2.9	9.4	16.4	8.4	3.3	.8	.9	.6	60.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NM >6/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.7	.9	.9	.9	.9	.9	.9	.9
* OR >5000	1.5	1.7	1.7	1.7	1.7	1.7	1.7	1.7
* OR >3500	2.3	2.8	3.0	3.0	3.0	3.0	3.0	3.0
* OR >2000	8.5	10.8	11.4	11.4	11.4	11.4	11.4	11.4
* OR >1000	16.1	23.5	25.5	25.6	25.6	25.6	25.7	25.7
* OR >600	22.5	31.4	34.4	34.8	34.8	34.8	35.0	35.0
* OR >300	21.9	33.9	37.3	37.7	37.8	37.8	38.0	38.0
* OR >150	23.9	33.9	37.4	37.8	38.0	38.0	38.2	38.2
* OR > 0	23.9	34.2	37.7	38.3	38.6	38.7	39.0	39.0
TOTAL	246	352	388	394	397	398	401	401

TOTAL NUMBER OF OBS: 1028 PCT FREQ NM <5/8: 61.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
1.8	11.7	18.9	19.8	11.9	10.9	10.4	8.7	9.8 .5	1111

PERIOD: (PRIMARY) 1922-1972
(OVER-ALL) 1856-1972

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	.2	.0	.0	.0	.1	.0	.0	.0	.0	.3	
	NO PCP	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	*	.2	.1	.0	.0	.1	.0	.0	.0	.0	.4	
1/2<1	PCP	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.2	
1<2	PCP	.1	.1	.1	.1	.1	*	.1	.0	.0	.0	.5	
	NO PCP	.0	.1	.0	.0	.0	.0	.0	.1	.0	.0	.2	
	TOT %	.1	.2	.1	.1	.1	*	.1	.1	.0	.0	.7	
2<5	PCP	.2	.5	*	.1	.1	.2	.3	.3	.0	.0	1.7	
	NO PCP	.4	.5	.3	.2	.3	.2	.2	.2	.0	.0	2.5	
	TOT %	.6	1.0	.3	.3	.5	.5	.5	.5	.0	.0	4.2	
5<10	PCP	.3	.8	*	.3	.3	.6	.5	.7	.0	.1	3.7	
	NO PCP	2.1	4.9	1.5	.8	.9	1.1	1.9	2.2	.0	.5	15.9	
	TOT %	2.4	5.7	1.5	1.1	1.2	1.7	2.4	3.0	.0	.5	19.6	
10+	PCP	.5	.5	.4	*	.2	.6	.3	.3	.0	.0	3.0	
	NO PCP	14.3	19.1	5.9	2.3	5.2	6.9	5.2	7.7	.0	5.5	71.9	
	TOT %	14.8	19.6	6.4	2.3	5.4	7.6	5.6	8.1	.0	5.5	74.9	
	TOT OBS												1503
	TOT PCT	17.7	26.8	8.4	3.8	7.2	9.8	8.5	11.6	.0	6.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	.1	.0	.0	*	.1	*	.0	.0		.3	
	11-21	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	22+	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	TOT %	*	.2	*	.0	*	.1	*	.0	.0	.0	.4	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	.0	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	22+	.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	*	.1	
	4-10	.1	*	.0	*	*	.0	.0	*	.0		.2	
	11-21	.0	*	*	*	.1	.0	.0	.0	.0		.2	
	22+	.0	*	.0	.0	.0	.0	*	.0	.0		.1	
	TOT %	.1	.2	*	.1	.1	*	*	.1	.0	*	.7	
2<5	0-3	.1	*	*	*	.1	.1	*	*	.0	.0	.4	
	4-10	.4	.4	.2	.1	.3	.2	.2	.2	.0		2.0	
	11-21	.2	.4	.0	*	.1	.2	.1	.2	.0		1.3	
	22+	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	TOT %	.7	.9	.3	.2	.5	.4	.4	.4	.0	.0	3.8	
5<10	0-3	.2	.4	.2	.1	.4	.5	.2	.5	.0	.5	2.9	
	4-10	1.2	2.3	.7	.5	.5	1.0	1.4	1.2	.0		8.9	
	11-21	.7	1.9	.2	.3	.2	.2	.6	.5	.0		4.6	
	22+	*	.1	*	.0	.0	.0	*	.1	.0		.3	
	TOT %	2.2	4.7	1.2	.9	1.1	1.7	2.2	2.3	.0	.5	16.7	
10+	0-3	2.0	2.0	1.2	.8	1.3	1.2	1.1	1.9	.0	8.1	19.5	
	4-10	9.9	12.0	4.5	1.9	4.0	5.8	3.8	5.0	.0		47.0	
	11-21	2.4	4.8	.8	.1	.4	.7	.7	1.1	.0		11.0	
	22+	.3	.2	*	.0	.0	.1	*	*	.0		.6	
	TOT %	14.6	19.1	6.5	2.8	5.7	7.8	5.6	8.0	.0	8.1	78.1	
	TOT OBS												2068
	TOT PCT	17.7	25.1	8.1	3.9	7.4	10.0	8.2	10.8	.0	8.7	100.0	

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PERIOD: (PRIMARY) 1922-1972
(OVER-ALL) 1856-1972

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	.3	4.1	9.5	13.2	10.5	2.0	1.0	.0	.3	40.9	59.1	296
06E09	.3	.3	2.8	8.6	13.9	8.6	.9	.0	.3	.6	36.4	63.6	324
12E15	1.7	.0	1.3	11.2	15.1	6.5	.9	1.3	.4	1.3	39.7	60.3	232
18E21	1.4	.0	3.2	6.4	13.2	5.9	1.4	.9	.0	.5	32.9	67.1	219
TOT	8	2	31	96	148	87	14	8	2	7	403	668	1071
PCT	.7	.2	2.9	9.0	13.8	8.1	1.3	.7	.2	.7	37.6	62.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.0	.4	.2	4.3	15.0	80.1	488
06E09	.6	.2	.6	3.1	14.9	80.6	649
12E15	.4	.2	1.8	5.5	19.7	72.3	452
18E21	.6	.0	.6	2.9	17.8	78.2	523
TOT	9	4	16	81	352	1650	2112
PCT	.4	.2	.8	3.8	16.7	78.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50VSBY	<600 <1	<1000 <3	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	4.5	16.8	25.9	57.3	286
06E09	.3	4.2	15.6	23.8	60.6	307
12E15	1.8	3.1	18.2	22.2	59.6	225
18E21	1.4	4.8	14.3	21.4	64.3	210
TOT	8	43	167	242	619	1028
PCT	.8	4.2	16.2	23.5	60.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.3	.2	.3	.1	.0	9	.9
85/89	.0	.0	.0	.2	1.7	6.4	1.6	.7	105	10.7
80/84	.0	.0	.0	.1	1.1	28.4	36.7	7.6	726	73.9
75/79	.0	.0	.0	.0	.0	1.0	6.1	6.9	138	14.1
70/74	.0	.0	.0	.0	.0	.0	.0	.4	4	.4
TOTAL	0	0	0	6	30	355	437	154	982	100.0
PCT	.0	.0	.0	.6	3.1	36.2	44.5	15.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.2	.4	.1	*	.2	*	.0	.0	.0	.0
	1.6	3.6	.9	.8	.7	1.0	.7	.9	.0	.5
	11.8	20.6	7.0	2.6	5.1	7.5	5.1	8.7	.0	5.7
	2.3	3.6	1.0	.4	.7	1.7	1.8	2.2	.0	.3
	.0	.1	.0	.0	.1	.2	.1	.0	.0	.0
	15.9	28.4	9.0	3.9	6.8	10.3	7.7	11.6	.0	6.5

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	93	88	85	82	77	75	73	81.5	602
06E09	94	90	87	82	77	75	72	82.4	926
12E15	87	86	84	81	77	75	72	81.0	561
18E21	88	84	83	81	77	75	72	80.6	749
TOT	94	87	86	81	77	75	72	81.4	2838

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.4	2.7	29.9	50.0	17.0	83	264
06E09	.0	1.3	6.8	49.2	30.0	12.7	79	307
12E15	.0	.4	.9	32.9	49.8	16.0	83	225
18E21	.0	.0	.9	30.0	50.2	18.9	84	227
TOT	0	6	32	372	450	163	82	1023

PERIOD: (PRIMARY) 1922-1972
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.2	.1	.1	5	.0	.3
9/10	.0	.0	.0	.1	.0	.3	.0	5	.0	.3
7/8	.0	.0	.0	.1	.2	.1	.1	7	.0	.5
6	.0	.0	.0	.1	.1	.2	.0	6	.0	.4
5	.0	.0	.1	.6	.6	.1	.0	19	.0	1.3
4	.0	.0	.1	1.0	1.1	.1	.0	33	.0	2.3
3	.0	.1	.0	.6	.9	.2	.0	26	.0	1.8
2	.0	.0	.3	4.6	2.3	.1	.0	104	.0	7.1
1	.0	.0	.6	2.9	1.2	.0	.0	67	.0	4.7
0	.0	.0	1.5	10.0	1.7	.0	.0	276	.0	19.2
-1	.0	.1	1.6	7.3	.3	.0	.0	134	.0	9.3
-2	.2	.1	5.6	16.9	.1	.0	.0	330	.1	22.9
-3	.0	.0	2.2	4.5	.1	.0	.0	97	.0	6.5
-4	.0	.4	5.2	6.0	.2	.0	.0	170	.1	11.7
-5	.0	.5	3.2	1.5	.0	.0	.0	75	.0	5.2
-6	.0	.3	1.5	.4	.0	.0	.0	31	.0	2.2
-7/-8	.0	.6	1.7	.3	.0	.0	.0	37	.0	2.6
-9/-10	.0	.5	.3	.0	.0	.0	.0	11	.0	.8
-11/-13	.1	.1	.0	.0	.0	.0	.0	2	.0	.1
-14/-16	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	4	39	343	901	131	16	2	1436	3	1433
PCT	.3	2.7	23.9	62.7	9.1	1.1	.1	100.0	.2	99.8

PERIOD: (OVER-ALL) 1953-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.6	.0	.0	.0	.0	2.0
1-2	1.1	7.3	.2	.0	.0	.0	8.6
3-4	.4	1.8	1.3	.2	.0	.0	3.8
5-6	.0	.3	1.1	.0	.0	.0	1.4
7	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	11.0	3.3	.2	.0	.0	16.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.7	1.3	.0	.0	.0	.0	3.2
1-2	.8	7.0	2.5	.0	.0	.0	10.2
3-4	.1	5.1	5.4	.1	.0	.0	10.7
5-6	.0	.4	3.9	.0	.0	.0	4.3
7	.0	.0	1.0	.5	.0	.0	1.5
8-9	.0	.0	.5	.2	.0	.0	.7
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.6	13.9	13.2	.9	.0	.0	30.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.0	.0	.0	.0	.0	1.3
1-2	.7	3.6	1.1	.0	.0	.0	5.4
3-4	.0	2.7	1.0	.2	.0	.0	3.8
5-6	.0	.4	.0	.0	.0	.0	.4
7	.0	.0	.0	.2	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	7.7	2.0	.4	.0	.0	11.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	.4	1.8	.1	.0	.0	.0	2.3
3-4	.1	.2	.5	.0	.0	.0	.8
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.7	.0	.0	.0	.0	.7
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.9	.8	.0	.0	.0	4.0

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PERIOD: (OVER-ALL) 1963-1972

TABLE 18 (CONT)

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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.5	.0	.0	.0	.0	.7
1-2	.5	2.4	.5	.0	.0	.0	3.4
3-4	.2	1.2	.2	.0	.0	.0	1.6
5-6	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	4.1	1.1	.0	.0	.0	6.1

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.2	.0	.0	.0	.0	.5
1-2	.8	2.3	.3	.0	.0	.0	3.9
3-4	.0	1.0	.5	.0	.0	.0	1.6
5-6	.0	.2	.5	.0	.0	.0	.8
7	.0	.0	.5	.2	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	4.3	1.9	.2	.0	.0	7.5

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.0	.0	.0	.0	.0	.7
1-2	.7	2.2	.7	.0	.0	.0	3.5
3-4	.0	.7	.8	.0	.0	.0	1.5
5-6	.0	.0	.5	.0	.0	.0	.5
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	2.8	2.2	.0	.0	.0	6.4

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.5	.0	.0	0	.0	.0	.5	
1-2	.3	2.7	.9	.0	.0	.0	3.9	
3-4	.0	1.5	.8	.0	.0	.0	2.3	
5-6	.0	.4	1.0	.0	.0	.0	1.4	
7	.0	.3	.1	.0	.0	.0	.5	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.8	5.1	2.8	.0	.0	.0	8.7	90.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	14.5	4.9	.0	.0	.0	.0	19.4	
1-2	5.9	29.0	6.8	.0	.0	.0	41.0	
3-4	.7	13.8	10.5	.5	.0	.0	25.5	
5-6	.0	1.6	7.5	.0	.0	.0	9.1	
7	.0	.5	2.1	.9	.0	.0	3.5	
8-9	.0	.0	.5	.2	.0	.0	.7	
10-11	.0	.7	.0	.0	.0	.0	.7	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	21.1	50.6	26.7	1.6	.0	.0	100.0	427

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	7.0	26.4	15.8	3.5	1.3	.4	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	424	2
6-7	.0	3.0	9.1	5.2	2.5	.4	.6	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	163	4
8-9	.1	.9	1.9	3.2	1.6	.6	.3	.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	72	5
10-11	.0	1.0	.8	.5	.4	.0	.1	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	5
12-13	.0	.0	.5	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	5
>13	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDET	7.4	1.0	1.2	.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	82	1
TOTAL	112	250	226	102	47	11	11	7	5	1	0	0	0	0	0	0	0	0	0	772	3
PCT	14.1	32.4	29.3	13.2	6.1	1.4	1.4	.9	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1929-1972
(OVER-ALL) 1856-1972

AREA 0006 NATUNA ISLAND
3.5N 107.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	3.6	2.6	1.9	.0	.0	.0	.0	8.0	4.1	.4	.0	.0	.7		.0	86.9
NE	3.2	2.1	1.9	.0	.0	.0	.0	7.2	5.3	.6	.0	.0	.8		.0	86.2
E	8.3	3.2	2.5	.0	.0	.0	.0	14.0	5.4	.0	.0	.0	.0		.0	80.6
SE	1.1	6.8	4.5	.0	.0	.0	.0	12.5	1.1	4.5	.0	.0	.0		.0	81.8
S	5.6	.0	.0	.0	.0	.0	.0	5.6	4.2	.0	.0	.0	.0		.0	90.1
SW	5.9	.0	4.0	.0	.0	.0	.0	9.9	4.0	4.0	.0	.0	4.0		.0	78.2
W	10.7	.0	.0	.0	.0	.0	.0	10.7	3.1	.0	.0	.0	.0		.0	86.3
NW	9.4	2.7	.3	.0	.0	.0	.0	12.5	4.3	1.5	.0	.0	.0		.0	81.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	3.3	6.7	.0	.0	.0	.0	.0	10.0	.0	3.3	.0	.0	.0		.0	86.7
TOT PCT	4.2	2.4	1.8	.0	.0	.0	.0	8.4	4.6	.6	.0	.0	.7		.0	85.7
TOT OBS:	1434															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.9	1.6	2.1	.0	.0	.0	.0	6.3	6.5	.3	.0	.0	.5		.0	86.4
06&09	4.8	2.7	1.2	.0	.0	.0	.0	8.7	4.4	.0	.0	.0	.7		.0	86.2
12&15	3.2	3.5	2.7	.0	.0	.0	.0	9.4	4.1	1.5	.0	.0	.9		.0	84.1
18&21	5.6	1.9	1.9	.0	.0	.0	.0	9.3	3.1	.9	.0	.0	.6		.0	86.1
TOT PCT	4.1	2.4	1.9	.0	.0	.0	.0	8.4	4.6	.6	.0	.0	.7		.0	85.7
TOT OBS:	1458															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.1	14.0	19.5	1.9	*	.0		30.5	11.8	32.1	34.4	27.8	31.0	29.2	33.6	28.5	34.6
NE	1.6	19.2	20.8	2.3	*	.0		43.8	11.8	43.0	41.0	46.5	41.9	43.9	51.1	44.7	39.8
E	.6	4.7	1.2	.1	.0	.0		6.6	8.0	7.3	6.8	5.5	4.9	6.7	4.3	8.1	7.7
SE	.4	1.8	.1	.0	.0	.0		2.3	5.8	2.1	3.4	1.9	3.1	1.9	1.7	3.0	1.8
S	.3	1.0	.2	.0	.0	.0		1.5	6.0	.9	3.8	1.5	.8	2.2	1.7	1.1	1.4
SW	.4	1.5	.2	.0	.0	.0		2.1	6.1	1.8	1.7	2.8	2.6	2.4	2.3	1.3	1.0
W	.5	1.6	.5	.1	.0	.0		2.7	7.2	3.2	.9	2.8	2.8	3.1	1.1	2.2	2.1
NW	.5	4.3	1.9	.2	.0	.0		6.8	9.2	7.1	4.5	8.1	7.5	7.3	4.0	5.9	5.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.8							3.8	.0	2.7	3.4	3.0	5.4	2.8	.0	5.3	6.1
TOT OBS	258	1346	1076	127	1	0	2808		10.5	482	117	600	353	462	87	396	311
TOT PCT	9.2	47.9	38.3	4.5	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)							HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	5.5	18.5	6.0	.4	.0		30.5	11.8	32.5	29.0	29.9	31.2
NE	8.0	26.4	8.9	.5	.0		43.8	11.8	42.6	44.8	45.1	42.5
E	3.2	3.0	.4	.0	.0		6.6	9.0	7.2	5.3	6.7	8.0
SE	1.8	.7	.0	.0	.0		2.3	5.8	2.4	2.4	1.9	2.4
S	1.0	.5	.0	.0	.0		1.5	6.0	1.5	1.3	2.1	1.2
SW	1.4	.6	*	.0	.0		2.1	6.1	1.8	2.7	2.4	1.1
W	1.6	.9	.1	*	.0		2.7	7.2	2.7	2.8	3.1	2.2
NW	2.5	3.6	.6	.1	.0		6.8	9.2	6.6	7.9	6.8	5.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.8						3.8	.0	2.8	3.9	2.4	5.7
TOT OBS	806	1522	452	28	0	2808		10.5	599	953	549	707
TOT PCT	28.7	54.2	16.1	1.0	.0		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1923-1972
(OVER-ALL) 1956-1972

AREA 0006 NATUNA ISLAND
3.8N 107.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.8	6.0	48.9	37.7	4.5	.0	.0	10.5	100.0	599
06&09	3.9	5.2	46.6	39.6	4.6	.1	.0	10.5	100.0	959
12&15	2.4	6.0	43.7	43.0	4.9	.0	.0	11.1	100.0	549
18&21	5.7	4.5	52.2	33.5	4.1	.0	.0	9.9	100.0	767
TOT	107	151	1346	1076	127	1	0	10.5		2808
PCT	3.8	5.4	47.9	38.3	4.5	*	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.5	5.0	11.9	11.7		6.0
NE	4.4	9.1	21.7	14.5		5.8
E	.6	1.0	2.2	1.6		5.7
SE	.0	.1	.7	.5		6.7
S	.1	.3	.3	.0		4.7
SW	.1	.6	1.0	.2		5.2
W	.2	.1	.8	1.5		6.9
NW	.1	.7	2.5	2.2		6.4
VAR	.0	.0	.0	.0		.0
CALM	.4	.1	1.0	.4		5.2
TOT OBS	83	167	416	322	938	5.9
TOT PCT	8.4	16.9	42.1	32.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT>NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.1	.1	1.0	3.8	5.7	2.6	1.2	.3	.0	.2	16.1	
.4	.1	1.7	5.7	9.0	4.3	.6	.3	.3	.1	27.1	
.0	.0	.1	.7	1.1	.2	.2	.0	.0	.1	3.0	
.0	.0	.0	.1	.2	.1	.0	.0	.0	.1	.8	
.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.5	
.0	.0	*	.3	.3	.1	.1	.0	.0	.0	1.2	
.0	.0	.1	.4	.7	.4	.0	.1	.0	.0	1.0	
.2	.0	.2	.9	.7	.4	.1	*	.0	.0	2.9	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.1	.0	.0	.1	.4	.2	.0	.0	.0	.1	1.0	
8	2	31	117	181	82	22	7	3	6	529	988
.8	.2	3.1	11.8	18.3	8.3	2.2	.7	.3	.6	53.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >3	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.8	.9	.9	.9	.9	.9	.9	.9
* OR >5000	1.0	[illegible]	1.6	1.6	1.6	1.6	1.6	1.6
* OR >3500	3.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
* OR >2000	8.8	12.4	12.5	12.6	12.6	12.6	12.6	12.6
* OR >1000	17.9	28.9	30.5	30.7	30.8	30.8	30.8	30.8
* OR >600	23.8	38.4	42.2	42.4	42.5	42.5	42.5	42.5
* OR >300	25.1	40.5	45.1	45.3	45.5	45.5	45.5	45.5
* OR >150	25.2	40.6	45.2	45.5	45.7	45.7	45.7	45.7
* OR > 0	25.2	40.7	45.8	46.1	46.4	46.5	46.5	46.5
TOTAL	253	409	460	463	466	467	467	467

TOTAL NUMBER OF OBS: 1003 PCT FREQ NH <5/8: 53.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
3.0	6.4	17.1	14.1	13.1	9.4	11.5	8.7	15.8	.7	1075

PERIOD: (PRIMARY) 1923-1972
(OVER-ALL) 1856-1972

AREA 0006 NATUNA ISLAND
3.5N 107.1E

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	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
1/2<1	PCP	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.1	.0	.0	.0	.0	.0	.1	.0	.0	.2	
1<2	PCP	.1	.1	*	.0	.1	.0	.0	.1	.0	.0	.3	
	NO PCP	.0	.3	.1	*	.1	.0	.0	.0	.0	.0	.4	
	TOT %	.1	.3	.1	*	.1	.0	.0	.1	.0	.0	.8	
2<5	PCP	.8	1.0	.1	.0	.0	.2	.1	.2	.0	.1	>.4	
	NO PCP	.9	1.4	.1	.0	.0	*	.3	.2	.0	.0	2.9	
	TOT %	1.8	2.3	.3	.0	.0	.2	.4	.4	.0	.1	5.4	
5<10	PCP	1.1	1.5	.5	.1	.0	.0	.1	.1	.0	.0	3.3	
	NO PCP	7.8	12.4	1.2	.3	.2	.1	.5	.7	.0	.1	23.4	
	TOT %	8.9	13.9	1.7	.5	.2	.1	.5	.8	.0	.1	25.7	
10+	PCP	.3	.9	.1	.1	.0	*	.1	.3	.0	.1	2.0	
	NO PCP	20.4	30.6	3.3	1.0	.9	1.5	1.3	4.1	.0	1.7	64.8	
	TOT %	20.8	31.5	3.4	1.0	.9	1.4	1.4	4.4	.0	1.9	66.8	
	TOT OBS												1433
	TOT PCT	31.7	48.2	5.5	1.5	1.2	1.4	2.3	5.7	.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	.1	*	.0	.0	.0	.0	.0	.0		.2	
	11-21	*	*	.0	.0	.0	.0	.0	*	.0		.1	
	22+	*	.0	.0	.0	.0	.0	.0	.0	.0		*	
	TOT %	.1	.2	*	.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		*	
	11-21	*	*	.0	.0	.0	.0	.0	*	.0		.1	
	22+	.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	*	
	4-10	.0	.0	.0	*	.1	.0	.0	.0	.0		.1	
	11-21	.1	.2	*	.0	.0	.0	.0	*	.0		.4	
	22+	.1	.3	.1	.0	.0	.0	.0	.0	.0		.4	
	TOT %	.2	.5	.1	*	.1	.0	.0	.1	.0	.0	1.0	
2<5	0-3	.0	.1	*	.0	.0	.0	.1	*	.0	.1	.4	
	4-10	.6	.8	.2	*	.0	.1	.1	.2	.0		2.2	
	11-21	.9	1.2	*	.0	.0	*	.1	.1	.0		2.3	
	22+	.2	.2	.0	.0	.0	.0	.0	.0	.0		.3	
	TOT %	1.7	3.3	.3	*	.0	.1	.3	.3	.0	.1	5.2	
5<10	0-3	*	.2	.0	.1	*	*	.1	*	.0	.2	.7	
	4-10	2.1	2.9	.7	.2	.1	.1	.4	.4	.0		6.9	
	11-21	4.4	7.7	.7	*	.0	*	.1	.4	.0		13.4	
	22+	.7	1.0	.0	.0	.0	.0	.0	*	.0		1.7	
	TOT %	7.3	11.8	1.3	.3	.2	.2	.5	.9	.0	.8	22.7	
10+	0-3	.9	1.2	.4	.3	.2	.3	.2	.4	.0	2.7	6.7	
	4-10	10.3	15.3	3.0	1.1	.7	1.1	.7	3.4	.0		35.5	
	11-21	9.7	14.2	.5	*	.1	.1	.3	1.3	.0		26.3	
	22+	.7	1.2	.0	.0	.0	.0	.1	.1	.0		2.1	
	TOT %	21.6	31.9	3.9	1.5	.9	1.5	1.4	5.2	.0	2.7	70.5	
	TOT OBS												2371
	TOT PCT	31.0	46.8	5.7	1.4	1.2	1.8	2.2	6.5	.0	2.9	100.0	

DECEMBER

PERIOD: (PRIMARY) 1923-1972
(OVER-ALL) 1856-1972

AREA 0006 NATUNA ISLAND
3.5N 107.1E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NM >4/8) AND OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00E03	.4	.0	3.6	11.8	16.5	8.6	2.9	.7	.0	.4	44.6	55.2	279
06E09	.3	.0	3.2	10.9	17.0	9.9	2.2	..3	.6	1.0	46.5	53.5	312
12E15	1.6	.4	2.1	10.7	19.3	8.2	2.5	.4	.4	.0	45.7	54.3	243
18E21	.9	.5	2.8	11.7	17.3	6.1	1.4	.0	.0	.9	41.6	58.4	214
TOT	8	2	31	118	183	88	24	7	3	6	470	578	1048
PCT	.8	.2	3.0	11.3	17.5	8.4	2.3	.7	.3	.6	44.8	55.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.8	.2	1.0	5.6	22.3	70.0	480
06E09	.0	.2	1.1	4.6	21.3	73.0	656
12E15	.4	.7	.9	5.1	25.7	67.2	448
18E21	.2	.0	1.0	5.7	21.7	71.4	511
TOT	7	5	21	108	473	1481	2095
PCT	.3	.2	1.0	5.2	22.6	70.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET/NM >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NM <5/8 AND 5+	TOTAL OBS
00E03	.4	4.1	19.2	27.7	53.1	271
06E09	.3	3.7	18.6	31.4	50.0	296
12E15	1.7	4.3	20.1	28.6	51.3	234
18E21	1.0	4.4	19.1	25.0	55.9	204
TOT	8	41	193	286	526	1005
PCT	.8	4.1	19.2	28.5	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
90/94	.0	.0	.0	.0	.4	.2	.1	.1	8	.9
85/89	.0	.0	.0	.1	1.4	2.4	1.1	.2	48	5.2
80/84	.0	.0	.0	.0	1.3	18.0	33.2	8.7	570	61.2
75/.9	.0	.0	.0	.0	.0	2.A	16.2	14.0	303	32.5
70/74	.0	.0	.0	.0	.0	.0	.1	.1	2	.2
TOTAL	0	0	0	1	29	214	472	215	931	100.0
PCT	.0	.0	.0	.1	3.1	23.0	50.7	23.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.1	.7	.1	.0	.0	.0	.0	.0	.0	.0
	1.9	2.3	.2	.2	.1	*	.0	.2	.0	.2
	17.0	32.5	3.1	.9	.4	1.2	1.2	3.6	.0	1.3
	12.4	14.8	1.6	*	.3	.5	1.0	1.3	.0	.5
	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0
	31.3	50.3	5.0	1.2	.8	1.8	2.2	5.3	.0	2.0

TABLE 15

MEANS/EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	91	86	83	80	77	75	73	80.1	599
06E09	90	89	86	81	77	75	73	8[illegible].2	937
12E15	90	84	83	80	77	75	75	[illegible].0	552
18E21	85	83	[illegible]2	79	76	75	73	79.3	710
TOT	91	87	84	80	77	75	73	80.3	2798

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	1.2	21.8	53.5	23.5	85	263
06E09	.0	.4	8.7	34.3	40.8	15.9	81	277
12E15	.0	.0	.9	19.6	53.6	26.0	85	235
18E21	.0	.0	.0	14.4	56.7	28.9	86	194
TOT	0	1	29	222	479	218	84	949

DECEMBER

PERIOD: (PRIMARY) 1929-1972
(OVER-ALL) 1856-1972

AREA 0006 NATUNA ISLAND
3.9N 107.1E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.1	.1	2	.0	.1
9/10	.0	.1	.1	.3	.1	10	.0	.7
7/8	.0	.1	.1	.3	.4	12	.0	.9
6	.0	.1	.1	.1	.1	7	.0	.5
5	.1	.4	.7	.7	.2	28	.0	2.1
4	.2	.5	1.6	.9	.2	46	.0	3.4
3	.0	.2	1.2	.1	.1	22	.0	1.6
2	.0	1.3	6.4	.3	.0	108	.0	8.0
1	.0	2.4	4.0	.4	.0	93	.0	6.9
0	.4	9.1	13.1	.1	.0	307	.0	22.8
-1	.0	7.2	5.1	.1	.0	168	.0	12.5
-2	.6	10.5	10.2	.0	.0	287	.0	21.3
-3	.6	4.5	1.5	.0	.0	89	.0	6.6
-4	.7	4.8	1.0	.0	.0	89	.0	6.6
-5	.4	2.6	.3	.0	.0	45	.0	3.3
-6	.2	.7	.0	.0	.0	13	.0	1.0
-7/-8	.4	.8	.1	.0	.0	17	.0	1.3
-9/-10	.2	.1	.0	.0	.0	4	.0	.3
-11/-13	.1	.0	.0	.0	.0	1	.0	.1
TOTAL	53	615	614	48	18	1348	0	1348
PCT	3.9	45.6	45.5	3.6	1.3	100.0		100.0

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.2	.0	.0	.0	.7
1-2	.0	5.7	2.4	.0	.0	.0	8.0
3-4	.0	2.4	5.7	.0	.0	.0	8.1
5-6	.0	.9	4.6	.3	.0	.0	5.7
7	.0	.0	1.7	.7	.0	.0	2.4
8-9	.0	.0	1.7	.0	.0	.0	1.7
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.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	.0	9.5	16.2	1.5	.0	.0	27.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.7	.1	.0	.0	.0	2.1
1-2	.0	7.1	4.8	.0	.0	.0	11.9
3-4	.3	9.1	11.9	.0	.0	.0	17.2
5-6	.3	1.9	8.4	1.4	.0	.0	12.0
7	.0	.8	5.0	1.5	.0	.0	7.3
8-9	.0	.3	1.3	1.9	.0	.0	3.5
10-11	.0	.0	.3	.3	.0	.0	.6
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	10.8	31.9	5.2	.0	.0	54.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	.0	2.3	.0	.0	.0	.0	2.3
3-4	.0	.9	.0	.0	.0	.0	.9
5-6	.0	1.0	.7	.0	.0	.0	1.7
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.5	.7	.0	.0	.0	5.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.3	.0	.0	.0	.0	.6
1-2	.0	.9	.0	.0	.0	.0	.9
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	1.2	.1	.0	.0	.0	1.5

PERIOD: (OVER-ALL) 1963-1972

DECEMBER

TABLE 18 (CONT)

AREA 0006 NATUNA ISLAND 3.5N 107.1E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.5	.0	.0	.0	.0	.5
3-4	.0	.2	.0	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.7	.0	.0	.0	.0	.7

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6
1-2	.0	.1	.0	.0	.0	.0	.1
3-4	.0	.3	.3	.0	.0	.0	.6
5-6	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.3	.0	.0	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.2	.6	.0	.0	.0	1.8

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.3	.0	.0	.0	.0	.5
1-2	.3	.5	.6	.0	.0	.0	1.3
3-4	.3	.0	.0	.0	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	.8	.8	.0	.0	.0	2.4

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.0	.0	.0	.0	.0	.1	
1-2	.0	1.9	.6	.0	.0	.0	2.4	
3-4	.0	.8	.1	.0	.0	.0	.9	
5-6	.0	.1	.1	.0	.0	.0	.1	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	2.7	.8	.0	.0	.0	3.5	97.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.6	3.9	.3	.0	.0	.0	7.7	
1-2	.6	18.8	8.3	.0	.0	.0	27.6	
3-4	.6	9.7	18.0	.0	.0	0	28.2	
5-6	.3	3.9	14.1	1.7	.0	.0	19.9	
7	.0	.8	6.6	2.2	.0	.0	9.7	
8-9	.0	.3	3.3	1.9	.0	.0	5.5	
10-11	.0	.0	.3	.3	.0	.0	.6	
12	.0	.0	.0	.3	.0	.0	.3	
13-16	.0	.3	.0	.0	.0	.0	.3	
17-19	.0	.0	.0	.3	.0	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.0	37.6	50.8	6.6	.0	.0	100.0	362

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.8	12.3	13.6	5.5	3.3	1.1	.1	.0	.1	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	294	3
6-7	.0	1.7	12.0	9.6	4.6	3.2	.7	.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	245	5
8-9	.0	.4	1.7	4.0	4.0	2.6	.9	.4	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	109	7
10-11	.0	.1	.1	.8	.8	1.1	.5	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	8
12-13	.0	.0	.1	.3	.3	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	8
>13	.0	.0	.0	.4	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	8
INDET	2.6	2.0	1.5	1.8	.5	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	68	3
TOTAL	41	125	220	170	102	63	18	9	7	2	0	0	0	0	0	0	0	0	0	757	4
PCT	5.4	16.5	29.1	22.5	13.5	8.3	2.4	1.2	.9	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

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PERIOD: (PRIMARY) 1920-1973
(OVER-ALL) 1855-1973

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3.6N 107.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	3.4	2.3	1.8	.0	.0	.0	.0	7.2	4.0	2.0	.2	.0	.2		*	86.9
NE	2.5	2.6	.9	.0	.0	.0	.0	5.8	3.4	2.0	.1	.0	.2		*	88.5
E	2.8	1.3	1.2	.0	.0	.0	.0	5.3	4.0	.8	.1	.0	.0		*	89.8
SE	3.4	2.1	.8	.0	.0	.0	.0	6.3	2.7	2.4	*	.0	.4		.0	88.4
S	3.2	1.3	1.3	.0	.0	.0	.0	5.8	2.4	1.9	.1	.0	1.6		.0	88.4
SW	4.3	1.3	1.0	.0	.0	.0	.0	6.6	3.6	2.6	*	.0	.6		.0	86.7
W	8.0	3.2	2.7	.0	.0	.0	.0	13.8	3.2	1.3	*	.0	.3		.0	81.5
NW	8.2	4.4	2.4	.0	.0	.0	.0	14.9	6.0	1.7	.1	.0	.3		.0	77.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	1.4	1.4	*	.0	.0	.0	.0	2.8	1.8	2.4	.1	.0	1.3		.0	91.5
TOT PCT	3.9	1.8	1.0	.0	.0	.0	.0	5.7	2.9	1.7	.1	.0	.5		*	89.3
TOT OBS: 18617																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.0	1.6	1.0	.0	.0	.0	.0	5.5	3.6	.5	.1	.0	.5		.0	89.8
06&09	3.3	2.1	.9	.0	.0	.0	.0	6.2	2.6	.1	.1	.0	.9		.1	90.3
12&15	2.5	1.7	1.2	.0	.0	.0	*	5.4	2.8	2.3	.1	.0	.4		.0	89.0
18&21	3.0	1.7	.9	.0	.0	.0	.0	5.6	2.1	4.5	.2	.0	.4		*	7.5
TOT PCT	3.0	1.8	1.0	.0	.0	.0	*	5.7	2.9	1.7	.1	.0	.4		*	89.3
TOT OBS: 18989																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.2	6.4	3.7	.4	*	.0		11.6	7.4	11.3	11.2	10.4	13.2	12.6	12.5	11.5	11.8
NE	2.0	12.6	8.5	.7	*	.0		23.8	7.7	24.6	23.4	25.0	22.5	24.1	26.6	23.1	21.0
E	1.3	4.6	.9	.1	*	.0		6.8	6.6	6.9	8.1	7.2	5.9	5.9	7.9	6.9	7.0
SE	1.2	3.9	.5	*	.0	.0		5.7	6.4	5.8	7.9	6.0	5.3	4.9	5.8	5.3	6.0
S	2.1	10.8	3.7	.1	.0	.0		16.6	7.0	17.5	19.	17.9	16.4	14.3	16.7	15.0	16.8
SW	1.9	11.5	4.2	.2	*	.0		17.9	7.5	17.4	18.2	17.2	19.8	18.3	18.2	17.3	18.0
W	.9	3.6	1.2	.1	*	.0		5.9	7.6	5.5	5.4	6.0	6.3	6.6	4.8	5.6	5.9
NW	.8	2.6	.8	.1	*	.0		4.2	7.6	3.7	3.6	4.2	4.7	4.9	4.1	4.2	4.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.4							7.4	.0	7.2	4.3	6.1	5.9	8.5	3.4	11.1	9.1
TOT OBS							34231		8.0	5859	1384	7795	3951	3284	1292	4788	3678
TOT PCT	18.9	56.0	23.4	1.7	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.0	6.2	1.3	.1	.0		11.6	7.4	11.2	11.4	12.6	11.6
NE	7.1	13.7	2.8	.1	.0		23.8	7.7	24.3	24.1	24.6	22.2
E	4.0	2.6	.2	*	*		6.8	6.6	7.2	6.7	6.3	6.9
SE	3.6	2.0	.1	.0	.0		5.7	6.4	6.2	5.8	5.1	5.6
S	6.8	9.0	.8	*	.0		16.6	7.0	17.9	17.4	14.8	15.8
SW	6.9	10.0	1.0	*	.0		17.9	7.5	17.6	18.0	18.3	17.6
W	2.8	2.7	.4	*	.0		5.9	7.6	5.5	6.1	6.2	5.7
NW	2.2	1.8	.3	*	.0		4.2	7.6	3.7	4.3	4.6	4.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	7.4						7.4	.0	6.4	6.1	7.5	10.2
TOT OBS						34231		8.0	7443	11746	6576	8466
TOT PCT	44.9	48.0	6.9	.3	*		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1920-1973
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	6.4	11.3	56.6	24.1	1.5	.1	.0	8.1	100.0	7443
06&09	6.1	11.4	55.0	25.8	1.6	.1	.0	8.3	100.0	11746
12&15	7.5	11.4	55.6	23.5	2.0	*	.0	8.1	100.0	6576
18&21	10.2	11.7	57.0	19.6	1.5	*	.0	7.4	100.0	8466
TOT								8.0		34231
PCT	7.4	11.4	56.0	23.4	1.7	*	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.4	2.2	4.6	2.7		5.2
NE	4.1	6.6	11.2	4.9		4.9
E	1.4	2.1	2.6	.9		4.6
SE	1.0	1.2	2.1	.8		4.9
S	2.9	4.0	6.9	2.8		5.1
SW	2.2	3.5	7.6	3.7		5.2
W	.5	1.0	2.5	1.8		5.9
NW	.4	.6	1.6	1.2		5.8
VAR	.0	.0	.0	.0		.0
CALM	2.0	1.8	2.3	.6		4.3
TOT OBS					12035	5.1
TOT PCT	14.1	23.1	41.4	19.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000-149	150-299	300-599	600-999	1000-1999	2000-3499	3500-4999	5000-6499	6500-7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	*	*	.2	1.0	1.5	.8	.2	.1	*	*	7.0	
NE	.1	.1	.4	1.9	3.7	2.0	.4	.1	.1	.1	18.0	
E	*	*	.1	.5	.6	.3	.1	*	.0	*	5.4	
SE	*	*	.1	.3	.5	.2	.1	.1	*	*	3.8	
S	*	*	.2	.7	1.8	.9	.3	*	*	*	12.5	
SW	*	*	.3	1.2	2.0	1.1	.5	.1	*	.0	11.7	
W	.1	*	.1	.6	1.0	.4	.1	.1	*	*	3.4	
NW	*	.0	.1	.5	.7	.3	.1	*	.0	*	2.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	.0	.1	.3	.4	.3	.1	.1	*	*	5.5	
TOT OBS												12035
TOT PCT	.4	.2	1.6	7.0	12.2	6.3	1.9	.7	.2	.3	69.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.4	.5	.5	.5	.5	.5	.5	.5
* OR >5000	.9	1.1	1.1	1.1	1.1	1.1	1.1	1.1
* OR >3500	2.4	2.9	3.0	3.0	3.0	3.0	3.0	3.0
* OR >2000	7.1	9.0	9.3	9.3	9.4	9.4	9.4	9.4
* OR >1000	15.2	20.2	21.3	21.4	21.4	21.4	21.4	21.4
* OR >600	19.0	26.3	28.1	28.2	28.3	28.3	28.3	28.4
* OR >300	19.8	27.5	29.6	29.8	29.9	29.9	29.9	29.9
* OR >150	19.8	27.7	29.8	30.0	30.1	30.1	30.1	30.1
* OR > 0	19.9	27.8	30.0	30.3	30.4	30.5	30.5	30.5

TOTAL NUMBER OF OBS: 12279 PCT FREQ NH <5/8: 69.5

TABLE 7A

PERCENTAGE FREQ OF LOW CL UDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
4.0	12.4	21.3	18.4	13.0	8.6	7.9	6.0	8.2 .3	13227

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	*	*	*	.0	*	*	.0	.0	.0	.1	
	NO PCP	*	*	*	.0	*	*	*	*	.0	.0	*	
	TOT %	*	*	*	*	*	*	*	*	.0	.0	.2	
1/2<1	PCP	*	*	*	*	*	*	*	*	.0	*	.1	
	NO PCP	*	*	*	*	*	*	*	*	.0	.0	.1	
	TOT %	*	.1	*	*	*	*	*	*	.0	*	.2	
1<2	PCP	*	.1	*	*	*	*	*	*	.0	.0	.3	
	NO PCP	*	.1	*	*	*	*	*	*	.0	*	.2	
	TOT %	.1	.1	*	.1	.1	.1	*	.1	.0	*	.5	
2<5	PCP	.2	.2	.1	*	.1	.2	.2	.1	.0	*	1.1	
	NO PCP	.3	.4	.1	.1	.2	.3	.1	.1	.0	*	1.6	
	TOT %	.5	.7	.2	.1	.3	.5	.3	.2	.0	*	2.8	
5<10	PCP	.2	.5	.1	.1	.3	.4	.2	.2	.0	*	2.1	
	NO PCP	2.2	4.7	.9	.7	2.1	2.3	.9	.6	.0	.5	14.9	
	TOT %	2.4	5.2	1.0	.8	2.4	2.7	1.2	.8	.0	.5	17.0	
10+	PCP	.2	.4	.1	.1	.2	.4	.2	.2	.0	*	1.9	
	NO PCP	8.2	19.4	5.7	4.4	13.9	13.7	4.0	2.7	.0	5.4	77.5	
	TOT %	8.5	19.8	5.8	4.5	14.1	14.1	4.3	2.9	.0	5.4	79.4	
	TOT OBS												18601
	TOT PCT	11.4	25.9	7.0	5.5	16.9	17.4	5.9	4.0	.0	6.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	.0	*	*	*	.0	*	.0	*	*	
	4-10	*	.1	*	*	*	*	*	*	.0		.1	
	11-21	*	*	*	*	*	*	*	*	.0		.1	
	22+	*	.0	0	.0	.0	*	*	.0	.0		*	
	TOT %	*	.1	*	*	*	.1	*	*	.0	*	.3	
1/2<1	0-3	.0	.0	*	*	.0	.0	.0	.0	.0	*	*	
	4-10	*	*	.0	*	*	*	*	*	.0		.1	
	11-21	*	*	*	*	*	*	*	*	.0		.1	
	22+	.0	*	*	.0	.0	*	*	.0	.0		*	
	TOT %	*	*	*	*	*	*	*	*	.0	*	.2	
1<2	0-3	*	*	.0	*	*	*	*	*	.0	*	.1	
	4-10	*	*	*	*	*	*	*	*	.0		.2	
	11-21	*	.1	*	*	*	*	*	*	.0		.2	
	22+	*	*	*	.0	.0	*	*	*	.0		.1	
	TOT %	.1	.1	*	.1	.1	.1	.1	.1	.0	*	.6	
2<5	0-3	*	*	0	*	*	.1	0	*	.0	.1	.4	
	4-10	.2	.3	.1	.1	.2	.3	.2	.1	.0		1.4	
	11-21	.2	.4	*	*	.1	.1	.1	.1	.0		1.1	
	22+	*	*	*	*	.0	*	*	*	.0		.1	
	TOT %	.5	.8	.2	.1	.3	.5	.3	.2	.0	.1	3.0	
5<10	0-3	.1	.2	.1	.1	.2	.2	.1	.1	.0	.5	1.8	
	4-10	.8	1.7	.5	.5	1.2	1.4	.6	.4	.0		7.0	
	11-21	1.0	2.3	.2	.1	.6	.6	.3	.2	.0		5.3	
	22+	.1	.3	*	*	*	.1	*	*	.0		.6	
	TOT %	2.1	4.4	.8	.7	2.0	2.3	1.0	.7	.0	.5	14.7	
10+	0-3	1.0	1.6	1.1	1.0	1.4	1.4	.7	.7	.0	6.6	13.5	
	4-10	5.1	10.9	3.9	3.2	9.7	9.9	2.8	2.0	.0		47.5	
	11-21	2.4	6.5	.7	.4	3.2	3.4	.7	.4	.0		17.6	
	22+	.2	.4	*	.0	.1	.1	*	*	.0		.8	
	TOT %	8.7	19.3	5.7	4.6	14.3	14.7	4.3	3.1	.0	6.6	81.3	
	TOT OBS												25172
	TOT PCT	11.5	24.3	6.8	5.3	16.8	17.6	5.7	4.1	.0	7.2	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00Z03	.2	.2	1.7	6.9	11.4	6.1	2.0	.9	.1	.2	29.7	70.3	3536
06Z09	.3	.2	1.6	6.5	12.0	6.6	1.7	.5	.2	.2	30.0	70.0	3833
12Z15	.5	.2	1.4	7.3	11.8	5.7	2.0	.4	.3	.2	30.0	70.0	2891
18Z21	.5	.2	1.4	5.7	10.8	5.6	1.5	.6	.1	.4	26.9	73.1	2641
TOT													12901
PCT	.4	.2	1.5	6.6	11.6	6.1	1.8	.6	.2	.3	29.3	70.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00Z03	.4	.2	.4	2.8	13.7	82.5	6205
06Z09	.2	.2	.5	2.6	13.0	83.5	7987
12Z15	.3	.3	.7	3.9	17.1	77.8	5391
18Z21	.2	.1	.6	3.0	15.4	80.8	6001
TOT							25554
PCT	.3	.2	.6	3.0	14.6	81.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00Z03	.2	2.3	10.9	20.3	68.8	3388
06Z09	.3	2.3	10.8	21.0	68.1	3663
12Z15	.6	2.3	12.3	20.1	67.6	2741
18Z21	.5	2.2	10.3	19.1	70.6	2487
TOT						12279
PCT	.4	2.3	11.1	20.2	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
95/99	.0	.0	.0	*	*	*	.0	.0		*
90/94	.0	.0	*	.2	.9	.5	.2	*		1.8
83/89	.0	.0	.0	.1	2.5	9.8	2.7	.5		15.7
80/84	.0	.0	.0	*	1.9	26.0	33.1	6.8		67.2
75/79	.0	.0	.0	.0	*	1.7	8.2	5.5		15.1
70/74	.0	.0	.0	.0	.0	*	.1	.2		.2
TOTAL									11244	100.0
PCT	.0	.0	*	.3	4.7	37.7	44.3	13.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	*	*	*	*	.0	.0	.0	.0
.1	.4	.1	.1	.4	.3	.1	*	.0	.2
.9	2.3	1.1	1.2	4.0	3.7	.8	.3	.0	1.4
6.1	17.3	4.8	3.4	11.8	12.1	4.1	2.6	.0	5.1
3.5	6.6	1.1	.2	.3	1.1	.9	.9	.0	.3
*	*	.0	.0	*	.1	.1	*	.0	.0
10.6	28.7	7.1	5.0	16.6	17.3	5.9	3.9	.0	7.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00Z03	97	89	86	82	78	75	72	81.9	7434
06Z09	97	91	88	83	78	76	68	83.2	11556
12Z15	97	87	85	82	78	76	68	81.6	6606
18Z21	90	88	84	81	78	75	70	81.1	8492
TOT	97	89	86	82	78	76	68	82.1	34088

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00Z03	.0	.1	1.9	32.3	51.2	14.5	82	3085
06Z09	.0	1.0	12.2	49.3	29.0	8.5	78	3380
12Z15	.0	.1	1.9	37.8	46.9	13.3	82	2612
18Z21	.0	*	1.1	28.5	53.6	16.8	83	2465
TOT	0	38	554	4384	5081	1485	81	11542

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TABLE 17

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PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	N FOG	WD FOG
14/16	.0	.0	.0	.0	*	.0	*	.0	3	.0	*
11/13	.0	.0	.0	*	*	.1	.1	*	36	.0	.2
9/10	.0	.0	.0	*	.1	.1	.2	.1	66	.0	.4
7/8	.0	.0	.0	*	.1	.3	.3	.1	155	.0	.9
6	.0	.0	.0	*	.1	.2	.2	.0	82	.0	.5
5	.0	.0	*	.1	.5	.7	.6	*	332	.0	1.9
4	.0	.0	*	.2	1.4	1.6	.6	*	678	*	3.9
3	.0	.0	*	.1	.6	.9	.2	.0	333	.0	1.9
2	.0	*	*	.7	3.4	3.1	.2	.0	1666	.0	9.5
1	.0	.0	.0	1.0	3.3	1.7	*	.0	1058	*	6.0
0	.0	*	.2	4.0	14.6	3.0	*	.0	4171	*	23.8
-1	.0	.0	.1	2.4	7.9	1.1	*	.0	1992	*	11.3
-2	.0	*	.3	4.5	13.4	.7	*	.0	3323	*	18.9
-3	.0	.0	.1	1.9	4.0	.2	.0	.0	1105	*	6.3
-4	.0	*	.4	2.9	4.3	.1	.0	.0	1358	*	7.7
-5	.0	.0	.3	1.8	1.4	.1	.0	.0	622	.0	3.5
-6	.0	.0	.1	.8	.3	*	.0	.0	210	.0	1.2
-7/-8	.0	*	.3	.8	.3	.0	.0	.0	250	.0	1.4
-9/-10	.0	*	.2	.2	.1	.0	.0	.0	68	.0	.4
-11/-13	.0	*	.1	*	*	.0	.0	.0	32	.0	.2
-14/-16	*	.0	*	.0	.0	.0	.0	.0	2	.0	*
TOTAL									17562		
PCT	*	.1	2.2	21.6	59.6	13.9	2.5	.2	100.0	.1	99.9

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.6	*	.0	.0	.0	.9
1-2	.2	2.8	.7	.0	.0	.0	3.7
3-4	*	1.1	1.6	.1	.0	.0	2.9
5-6	.0	.2	.9	*	.0	.0	1.2
7	.0	*	.3	.1	.0	.0	.5
8-9	.0	.0	.2	.1	.0	.0	.3
10-11	.0	.0	*	*	.0	.0	*
12	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	*	.0	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	4.8	3.9	.4	.0	.0	9.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.5	.2	.0	.0	.0	2.3
1-2	.6	6.4	2.8	.0	.0	.0	9.8
3-4	.3	3.2	4.9	.1	.0	.0	8.5
5-6	*	.7	3.2	.3	.0	.0	4.3
7	.0	.2	1.3	.3	.0	.0	1.8
8-9	.0	*	.4	.2	.0	.0	.7
10-11	.0	.0	.1	.1	*	.0	.2
12	.0	.0	.0	.0	*	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	*	.0	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	12.0	13.0	1.1	*	.0	27.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.8	.0	.0	.0	.0	1.4
1-2	.3	2.1	.5	.0	.0	.0	2.9
3-4	*	.9	.5	*	.0	.0	1.5
5-6	*	.2	.3	*	.0	.0	.5
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	*	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	5.0	1.4	*	*	.0	7.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.4	.0	.0	.0	.0	.7
1-2	.3	1.9	.3	.0	.0	.0	2.4
3-4	*	.6	.4	.0	.0	.0	1.0
5-6	.0	*	.1	.0	.0	.0	.1
7	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.1	.0	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	3.0	.7	.0	.0	.0	4.3

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.3	.1	.0	.0	.0	1.6
1-2	.4	5.6	1.6	.0	.0	.0	7.6
3-4	.1	3.1	2.2	.1	.0	.0	5.4
5-6	.0	.3	1.1	.0	.0	.0	1.5
7	.0	.0	.3	*	.0	.0	.3
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	10.3	5.4	.1	.0	.0	16.5

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	*	.1	.0	.0	.0	1.6
1-2	.7	2.0	1.6	.0	.0	.0	8.3
3-4	.1	2.3	2.6	.1	.0	.0	5.0
5-6	.0	.4	1.3	*	.0	.0	1.8
7	.0	.0	.5	.1	.0	.0	.5
8-9	.0	.0	.1	*	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	*	.0	.0	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	9.9	6.1	.1	.0	.0	17.3

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.9	.0	.0	.0	.0	1.2
1-2	.3	2.1	.5	.0	.0	.0	3.0
3-4	.1	.7	.7	*	.0	.0	1.5
5-6	.0	.2	.2	.0	.0	.0	.4
7	.0	*	.1	.0	.0	.0	.2
8-9	.0	.0	*	*	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	3.9	1.8	.1	.0	.0	6.3

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.2	.0	.0	.0	.0	.4	
1-2	.2	1.0	.3	.0	.0	.0	1.5	
3-4	.0	.5	.3	.0	.0	.0	.8	
5-6	.0	.1	.2	*	*	.0	.3	
7	.0	*	*	*	*	.0	.1	
8-9	.0	.0	.0	*	.0	.0	*	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	1.8	.8	.1	*	.0	3.1	92.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.1	6.8	.4	.0	.0	.0	18.3	
1-2	3.2	28.8	8.2	.0	.0	.0	40.2	
3-4	.6	12.2	13.2	.3	.0	.0	26.4	
5-6	.1	2.1	7.3	.4	*	.0	10.0	
7	.0	.3	2.7	.5	*	.0	3.5	
8-9	.0	*	.8	.3	.0	.0	1.2	
10-11	.0	.1	.1	.1	*	.0	.3	
12	.0	.0	.0	*	*	.0	*	
13-16	.0	*	.0	.0	.0	.0	*	
17-19	.0	.0	.0	.1	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	15.0	50.4	32.7	1.8	.1	.0	100.0	5085

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	7.0	26.8	17.1	5.0	1.2	.3	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	5511	2
6-7	.1	2.3	7.1	6.0	2.4	.9	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1839	4
8-9	.1	.5	1.1	1.8	1.5	.6	.3	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	580	6
10-11	.0	.1	.2	.3	.3	.2	.1	.1	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	157	6
12-13	.0	.0	.0	.1	.1	*	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	60	6
>13	.0	.0	.0	.1	*	*	*	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	8
INDET	9.8	2.4	1.6	.6	.2	.1	*	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1429	1
TOTAL																				9585	3
PCT	17.0	32.3	27.4	13.9	5.7	2.1	.8	.4	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1920-1973
(OVER-ALL) 1855-1973

AREA 0006 NATUNA ISLAND
3.0N 107.0E

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	2	*
91/92	.0	.1	.1	.1	.1	.2	.0	.1	.0	*	.0	.0	21	.1
89/90	.0	*	.1	.7	1.5	1.2	.6	.3	.3	.3	.3	.0	142	.4
87/88	.1	.1	.6	5.4	11.6	9.3	3.2	1.7	2.0	2.7	1.8	.2	1077	3.3
85/86	.8	1.0	3.6	24.2	37.8	33.0	20.3	13.6	14.2	17.6	10.4	2.3	4941	15.1
83/84	4.6	6.0	17.9	37.7	35.6	40.1	46.7	48.6	47.4	44.4	32.7	14.0	10300	31.4
81/82	32.7	36.6	47.7	26.6	11.6	14.6	25.9	32.4	31.7	30.5	43.1	42.8	10258	31.3
79/80	37.8	37.1	23.4	4.2	1.3	1.0	2.5	2.5	2.0	3.4	9.2	29.7	4180	12.8
77/78	18.9	14.9	5.2	.7	.2	.3	.4	.6	1.2	.8	1.7	8.6	1434	4.4
75/76	3.9	3.1	1.2	.2	.2	.2	.1	.2	.3	.3	.3	1.5	312	1.0
73/74	.8	.6	.2	*	.1	.1	*	.1	.1	*	.4	.3	73	.2
71/72	.3	.4	.0	.0	.0	*	*	.0	.0	.0	*	.4	31	.1
69/70	.1	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	10	*
67/68	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
65/66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
63/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	2640	2637	2842	2739	2854	2784	2640	2703	2722	2790	2760	2691	32782	100.0
MEAN	79.7	79.9	81.3	83.0	84.6	84.3	83.4	83.1	83.1	83.2	82.4	80.7	82.4	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1011	1011	1011	1009	1010	1011	1011	1010	1011	1605
FEB	1011	1011	1011	1009	1010	1010	1011	1010	1010	1523
MAR	1011	1010	1010	1009	1010	1010	1010	1009	1010	1714
APR	1010	1010	1009	1008	1009	1009	1010	1008	1009	1699
MAY	1009	1009	1009	1007	1008	1009	1009	1008	1009	1722
JUN	1009	1009	1009	1008	1009	1009	1009	1009	1009	1602
JUL	1009	1009	1009	1008	1009	1009	1009	1008	1009	1563
AUG	1010	1009	1009	1008	1009	1009	1009	1008	1009	1612
SEP	1010	1010	1009	1008	1009	1009	1010	1009	1009	1601
OCT	1010	1010	1010	1008	1010	1010	1010	1009	1010	1729
NOV	1010	1010	1010	1008	1010	1010	1010	1009	1010	1648
DEC	1010	1011	1010	1009	1010	1010	1010	1009	1010	1554
ANN	1010	1010	1010	1008	1009	1010	1010	1009	1010	19572
OBS	3566	1376	4541	1576	3054	1168	2790	1501		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	1005	1006	1007	1009	1011	1012	1014	1014	1015
FEB	1005	1005	1007	1009	1010	1012	1014	1014	1015
MAR	1004	1005	1007	1009	1010	1011	1013	1013	1014
APR	1004	1005	1006	1008	1009	1011	1012	1013	1014
MAY	1003	1004	1005	1007	1009	1010	1012	1012	1013
JUN	1004	1005	1006	1008	1009	1010	1011	1011	1012
JUL	1004	1004	1006	1008	1009	1010	1011	1012	1013
AUG	1004	1004	1006	1008	1009	1010	1012	1012	1013
SEP	1004	1005	1006	1008	1009	1011	1012	1012	1013
OCT	1005	1005	1007	1009	1010	1011	1012	1013	1014
NOV	1005	1005	1006	1008	1010	1011	1013	1013	1014
DEC	1005	1005	1006	1009	1010	1011	1013	1014	1015

JANUARY

PERIOD: (PRIMARY) 1933-1973
(OVER-ALL) 1867-1973

AREA 0007 SARAWAK
3.7N 111.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	4.3	1.4	1.6	.6	.0	.0	.0	7.2	4.1	.8	.0	.0	.4		.0	87.6
NE	2.2	.9	1.0	.0	.0	.0	.0	4.1	3.3	1.6	.0	.0	.0		.0	91.0
E	10.4	1.0	1.0	.0	.0	.0	.0	12.4	2.0	2.0	.0	.0	.0		.0	83.7
SE	11.9	3.4	.0	.0	.0	.0	.0	15.3	4.2	.8	.0	.0	.0		.0	79.7
S	7.8	8.9	4.4	.0	.0	.0	.0	21.1	3.3	3.3	.0	.0	.0		.0	72.2
SW	6.8	.0	.0	.0	.0	.0	.0	6.8	1.7	.0	.0	.0	.0		.0	91.5
W	8.3	3.1	.0	.0	.0	.0	.0	11.5	9.1	8.3	.0	.0	.0		.0	77.1
NW	6.0	.5	.0	.0	.0	.0	.0	6.6	.0	.0	.0	.0	.0		.0	93.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	22.6	12.9	3.2	.0	.0	.0	.0	38.7	.0	.0	.0	3.2	.0		.0	58.1
TOT PCT	4.8	1.7	1.2	.0	.0	.0	.0	7.7	3.2	1.4	.0	.1	.1		.0	87.5
TOT OBS:	919															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	6.2	2.1	1.2	.0	.0	.0	.0	9.5	4.1	.0	.0	.4	.4		.0	85.5
06&09	3.6	3.6	.4	.0	.0	.0	.0	7.6	3.1	.0	.0	.0	.4		.0	88.9
12&15	4.2	.8	2.1	.0	.0	.0	.0	7.2	1.7	3.0	.0	.0	.0		.0	88.1
18&21	6.5	.9	.9	.0	.0	.0	.0	8.3	3.9	2.6	.0	.0	.0		.0	85.2
TOT PCT	5.2	1.8	1.2	.0	.0	.0	.0	8.2	3.2	1.4	.0	.1	.2		.0	86.9
TOT OBS:	932															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.2	15.0	9.8	2.3	.1	.1		28.5	11.5	25.0	26.3	26.8	36.7	27.3	36.9	24.0	26.7
NE	2.3	22.4	20.8	2.3	*	.0		47.8	11.5	43.0	46.8	46.5	48.5	49.1	47.6	52.9	49.0
E	1.1	3.9	1.2	*	.0	.0		6.3	7.4	9.6	6.4	8.7	3.6	2.8	4.4	5.4	8.6
SE	.5	2.3	.1	.0	.0	.0		2.9	5.5	3.2	6.4	2.2	.0	2.2	1.8	2.4	5.7
S	.2	1.8	.3	.0	.0	.0		2.2	7.4	3.2	2.8	3.4	.0	2.5	1.2	2.4	2.2
SW	.3	.8	.3	.0	.0	.0		1.5	7.6	1.9	.9	.0	1.4	3.0	.4	3.2	1.0
W	.4	1.8	.3	.0	.0	.0		2.5	6.8	3.7	3.2	1.8	2.0	3.0	2.4	1.5	2.7
NW	1.0	2.7	1.4	*	.0	.0		5.1	8.1	3.9	6.6	5.4	6.5	6.5	4.8	4.2	3.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.1							3.1	.0	6.4	.9	5.3	1.4	3.7	.8	4.1	.7
TOT OBS	121	601	404	55	2	1	1184		10.3	171	117	170	147	181	124	148	146
TOT PCT	10.2	50.8	34.1	4.6	.2	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.3	16.2	4.6	1.0	.1		28.5	11.5	25.5	31.4	31.5	25.3
NE	9.9	28.4	9.1	.4	.0		47.8	11.5	44.5	47.4	48.4	50.9
E	3.2	2.9	.2	.0	.0		6.3	7.4	8.3	6.3	3.5	7.0
SE	2.3	.6	.0	.0	.0		2.9	5.5	4.5	1.2	1.9	4.0
S	.9	1.3	.0	.0	.0		2.2	7.4	3.0	1.8	1.9	2.3
SW	.9	.6	.1	.0	.0		1.5	7.6	1.5	.6	1.8	2.1
W	1.4	1.0	.1	.0	.0		2.5	6.8	3.5	1.9	2.7	2.1
NW	2.3	2.4	.4	.0	.0		5.1	8.1	5.0	5.9	5.7	3.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.1						3.1	.0	4.2	3.5	2.5	2.4
TOT OBS	359	636	172	16	1	1184		10.3	288	317	285	294
TOT PCT	30.3	53.7	14.5	1.4	.1		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1933-1973
(OVER-ALL) 1867-1973

AREA 0007 SARAWAK
3.7N 111.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	4.2	7.3	50.0	33.7	4.5	.3	.0	10.1	100.0	288
06&09	3.5	8.2	51.7	31.2	5.0	.3	.0	10.1	100.0	317
12&15	2.5	7.0	50.2	35.4	4.6	.0	.4	10.4	100.0	285
18&21	2.4	5.8	51.0	36.4	4.4	.0	.0	10.4	100.0	294
TOT	37	84	601	404	55	2	1	10.3		1184
PCT	3.1	7.1	50.8	34.1	4.6	.2	.1		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.2	4.4	10.8	8.8		5.9
NE	5.3	8.0	25.6	7.9		9.4
E	.4	1.0	7.6	1.9		6.0
SE	.2	.4	1.2	.7		5.6
S	.1	.3	1.9	1.3		6.3
SW	.0	.2	1.1	.4		6.3
W	.2	.4	1.1	1.1		6.3
NW	.2	1.0	2.1	1.5		6.0
VAR	.0	.0	.0	.0		.0
CALM	.2	.6	1.4	3.2		8.9
TOT OBS	45	83	242	136	506	6.8
TOT PCT	8.9	16.4	47.8	26.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.1	.9	2.7	3.8	1.9	1.1	.4	.6	.0	14.7	
NE	.4	.0	.9	3.0	6.8	9.5	.9	.6	.2	.2	30.6	
E	.2	.0	.2	.7	.8	.3	.3	.0	.0	.0	3.3	
SE	.0	.0	.0	.4	.4	.4	.7	.0	.0	.0	1.1	
S	.0	.0	.0	.1	.5	.2	.2	.0	.0	.0	2.6	
SW	*	.0	.0	.4	.4	.0	.0	.2	.0	.0	.7	
W	.1	.0	.2	.5	.5	.0	.0	.2	.0	.0	1.0	
NW	.0	*	.0	.6	1.0	.4	.0	.0	.0	.0	2.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.6	2.2	.4	.0	.0	.0	.0	3.2	
TOT OBS	4	1	11	46	85	36	14	7	4	0	298	506
TOT PCT	.8	.2	2.2	9.1	16.8	7.1	2.8	1.4	.8	.0	58.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.8	.8	.8	.8	.8	.8	.8	.8
* OR >5000	1.7	2.1	2.1	2.1	2.1	2.1	2.1	2.1
* OR >3500	4.0	4.6	4.6	4.8	4.8	4.8	4.8	4.8
* OR >2000	10.8	12.5	12.5	12.7	12.7	12.7	12.7	12.7
* OR >1000	22.7	28.5	29.7	29.9	29.9	29.9	29.9	29.9
* OR >600	27.2	36.6	38.3	38.5	38.7	38.7	38.7	38.7
* OR >300	28.3	38.7	40.7	40.8	41.0	41.0	41.0	41.0
* OR >150	28.5	38.9	40.8	41.0	41.2	41.2	41.2	41.2
* OR > 0	29.1	39.7	41.6	41.8	42.0	42.0	42.0	42.0
TOTAL	151	206	216	217	218	218	218	218

TOTAL NUMBER OF OBS: 519 PCT FREQ NH <5/8: 58.0

TABLE 7A

PERCENTAGE FREQ OF CON CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
4.1	6.5	14.3	16.8	15.8	11.5	11.4	6.9	12.3 .4	537

PERIOD: (PRIMARY) 1933-1973
(OVER-ALL) 1867-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	PCP	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2	
	TOT %	.1	.0	.1	.1	.0	.1	.1	.0	.0	.0	.5	
1<2	PCP	.0	.0	.1	.2	.1	.0	.0	.0	.0	.0	.3	
	NO PCP	.2	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	
	TOT %	.2	.0	.1	.2	.1	.0	.0	.1	.0	.0	.5	
2<5	PCP	.3	.4	.1	.1	.0	.0	.1	.1	.0	.0	1.1	
	NO PCP	1.0	.2	.2	.0	.0	.0	.1	.3	.0	.0	1.8	
	TOT %	1.9	.7	.3	.1	.0	.0	.2	.4	.0	.0	2.9	
5<10	PCP	1.0	.8	.2	.1	.4	.1	.1	.1	.0	.2	3.0	
	NO PCP	6.7	8.1	.9	.2	.5	.4	.4	.9	.0	.1	18.2	
	TOT %	7.7	8.9	1.1	.3	.8	.5	.5	1.1	.0	.3	21.2	
10+	PCP	.9	.8	.3	.0	.1	.0	.1	.1	.0	1.1	2.9	
	NO PCP	18.2	37.8	3.7	2.5	1.5	1.0	1.7	3.4	.0	2.0	71.7	
	TOT %	18.7	38.6	3.9	2.5	1.6	1.0	1.8	3.5	.0	3.0	74.6	
	TOT OBS												919
	TOT PCT	28.0	48.2	5.5	3.2	2.4	1.6	2.6	5.0	.0	3.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	.1	.1	.0	.1	.1	.0	.0		.5	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.0	.1	.1	.0	.1	.1	.0	.0	.0	.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	.1	.2	.1	.0	.0	.0	.0		.4	
	11-21	.1	.0	.0	.0	.0	.0	.0	.1	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.0	.1	.2	.1	.0	.0	.1	.0	.0	.5	
2<5	0-3	.1	.2	.1	.0	.0	.0	.0	.2	.0	.0	.5	
	4-10	1.3	.7	.1	.1	.1	.0	.2	.3	.0		2.9	
	11-21	.5	.8	.1	.0	.0	.0	.0	.2	.0		1.5	
	22+	.3	.0	.0	.0	.0	.0	.0	.0	.0		.3	
	TOT %	2.2	1.7	.3	.1	.1	.0	.2	.6	.0	.0	5.2	
5<10	0-3	.1	.3	.2	.0	.0	.1	.0	.2	.0	.3	1.2	
	4-10	2.4	3.1	.9	.3	.5	.3	.3	.5	.0		8.1	
	11-21	3.3	4.4	.2	.0	.3	.1	.3	.3	.0		8.9	
	22+	1.6	.5	.0	.0	.0	.0	.0	*	.0		2.1	
	TOT %	7.4	8.3	1.3	.3	.8	.5	.5	1.0	.0	.3	20.4	
10+	0-3	.8	1.1	.3	.5	.3	.2	.3	.5	.0	2.9	6.8	
	4-10	10.5	18.2	2.7	1.8	1.3	.5	1.4	1.9	.0		38.4	
	11-21	6.2	10.6	.8	.1	.0	.2	.0	.9	.0		24.9	
	22+	.8	2.3	.1	.0	.0	.0	.0	.0	.0		3.2	
	TOT %	18.4	38.2	3.9	2.4	1.6	.9	1.7	3.3	.0	2.9	73.3	
	TOT OBS												982
	TOT PCT	28.2	48.3	5.7	3.1	2.3	1.5	2.4	5.0	.0	3.2	100.0	

JANUARY

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1867-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,WW >4/8) AND OCCURRENCE OF WW <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	WW <5/8 ANY HGT	TOTAL OBS
00E03	.7	.7	3.5	9.2	20.6	10.6	1.4	3.5	.7	.0	51.1	48.9	141
06E09	.0	.0	2.3	10.2	15.6	8.6	3.1	.8	.8	.0	41.4	58.6	128
12E15	.7	.0	1.5	9.5	11.7	7.3	3.8	.0	1.5	.0	35.8	64.2	137
18E21	1.7	.0	1.7	5.8	19.8	4.1	2.5	.8	.0	.0	36.4	63.6	171
TOT	4	1	12	46	89	41	14	7	4	0	218	309	527
PCT	.8	.2	2.3	8.7	16.9	7.8	2.7	1.3	.8	.0	41.4	58.6	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
00E03	.4	.4	.4	4.7	20.1	74.0	254
06E09	.0	.8	.4	4.1	16.3	78.4	245
12E15	.0	.0	.0	6.0	21.4	72.6	252
18E21	.0	.8	1.2	5.7	23.4	68.9	244
TOT	1	5	5	51	202	731	995
PCT	.1	.5	.5	5.1	20.3	73.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,WW >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	WW <5/8 AND 5+	TOTAL OBS
00E03	.7	5.7	16.4	34.4	47.1	140
06E09	.0	4.0	14.3	29.4	56.3	126
12E15	.7	2.2	12.7	24.6	62.7	134
18E21	1.7	3.4	14.3	22.7	63.0	119
TOT	4	20	75	148	296	519
PCT	.8	3.9	14.5	28.5	57.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.4	2.7	.9	.2	19	4.2
80/84	.0	.0	.0	.0	1.6	15.8	34.6	6.7	263	58.7
75/79	.0	.0	.0	.0	.7	3.8	16.5	13.6	155	34.6
70/74	.0	.0	.0	.0	.0	.2	1.1	1.1	11	2.5
TOTAL	0	0	0	0	12	101	238	97	448	100.0
PCT	.0	.0	.0	.0	2.7	22.5	53.1	21.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.4	2.8	.8	.2	.0	.0	.0	.0	.0	.0
12.9	35.9	2.3	1.5	1.6	.9	.9	1.3	.0	1.3
10.0	11.9	2.1	.9	1.4	1.0	1.6	2.3	.0	3.3
.4	.4	.0	.0	.0	.0	.0	.2	.0	1.3
23.8	51.1	5.1	2.7	3.0	1.9	2.5	3.9	.0	6.0

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	86	85	83	80	75	73	72	79.8	294
06E09	91	89	86	81	77	75	72	81.2	312
12E15	86	84	83	81	77	75	73	80.1	287
18E21	8C	83	82	80	75	73	72	79.4	296
TOT	91	86	84	81	75	73	72	80.2	1189

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	.0	12.9	58.6	28.4	86	116
06E09	.0	.0	7.4	36.1	41.7	14.8	81	108
12E15	.0	.0	2.4	20.2	53.2	24.2	84	124
18E21	.0	.0	.9	19.6	56.3	23.2	85	112
TOT	0	0	12	101	242	105	84	480

PERIOD: (PRIMARY) 1933-1973
(OVER-ALL) 1867-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	.1	.0	1	.0	.1
7/8	.0	.1	.1	.1	.1	.0	4	.0	.5
6	.0	.0	.0	.0	.2	.1	3	.0	.3
5	.0	.0	.0	.3	.6	.0	8	.0	.9
4	.0	.0	.3	2.5	.6	.0	30	.0	3.4
3	.0	.0	.7	.7	.2	.0	14	.0	1.6
2	.0	.0	.8	7.3	.3	.0	74	.0	8.4
1	.0	.2	.9	2.9	.3	.0	38	.0	4.3
0	.0	.7	7.3	17.9	.3	.0	230	.0	26.2
-1	.1	.6	4.0	4.4	.0	.0	80	.0	9.1
-2	.0	.7	13.7	10.8	.0	.0	221	.0	25.2
-3	.1	.6	2.7	.9	.0	.0	38	.0	4.3
-4	.0	.9	5.5	2.2	.0	.0	75	.0	8.6
-5	.2	1.3	1.9	.3	.0	.0	33	.0	3.9
-6	.0	1.0	.5	.1	.0	.0	14	.0	1.6
-7/-8	.0	.7	.3	.2	.0	.0	11	.0	1.3
-9/-10	.1	.1	.1	.0	.0	.0	3	.0	.3
TOTAL	5	60	341	445	25	1	877	0	877
PCT	.6	6.8	38.9	50.7	2.9	.1	100.0		100.0

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.6	.0	.0	.0	.0	2.1
1-2	.8	3.3	1.6	.0	.0	.0	5.7
3-4	.0	6.1	5.3	.0	.0	.0	11.4
5-6	.0	.0	3.4	1.1	.0	.0	4.5
7	.0	.0	2.6	.0	.0	.0	2.6
8-9	.0	.0	.4	.5	.0	.0	.9
10-11	.0	.0	.9	.0	.0	.0	.9
12	.0	.0	.0	.4	.0	.0	.4
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.4	.0	.0	.4
20-22	.0	.0	.0	.4	.0	.5	.9
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	11.0	14.3	2.8	.0	.5	29.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	.0	.5	.0	.0	.0	1.6
1-2	1.2	9.0	2.6	.0	.0	.0	12.8
3-4	1.1	5.0	10.1	.0	.0	.0	16.1
5-6	.0	1.6	7.8	1.6	.0	.0	11.0
7	.0	.5	1.6	.5	.0	.0	2.6
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	1.2	.5	.0	.0	1.7
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.3	.1	.0	.0	.7
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.3	16.1	24.3	3.0	.0	.0	47.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5
1-2	.5	.8	.5	.0	.0	.0	1.9
3-4	.0	.4	1.6	.0	.0	.0	2.0
5-6	.0	.5	.4	.0	.0	.0	.9
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.5	.0	.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	.5	2.2	3.0	.0	.0	.0	5.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7
1-2	.0	.8	.0	.0	.0	.0	.8
3-4	.0	1.1	.5	.0	.0	.0	1.6
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.5	.5	.0	.0	.0	3.0

PERIOD: (OVER-ALL) 1963-1973 JANUARY AREA 0007 SARAWAK

TABLE 18 (CONT) 3.7N 111.8E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.4	.0	.0	.0	.0	.4
1-2	.0	1.2	.5	.0	.0	.0	1.7
3-4	.0	.5	.0	.0	.0	.0	.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.1	.5	.0	.0	.0	2.6

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.0	.0	.0	.0	.0	.5
1-2	.0	.4	.5	.0	.0	.0	.9
3-4	.0	1.1	.5	.0	.0	.0	2.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	1.5	1.1	.0	.0	.0	3.6

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5
1-2	.0	.8	.0	.0	.0	.0	.8
3-4	.0	.5	.0	.0	.0	.0	.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.9	.0	.0	.0	.0	1.9

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.1	.0	.0	.0	.0	.0	1.1	
1-2	.1	1.2	.0	.0	.0	.0	1.3	
3-4	.0	.1	.0	.0	.0	.0	.1	
5-6	.0	.0	1.1	.0	.0	.0	1.1	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.2	1.3	1.1	.0	.0	.0	3.6	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	6.3	3.7	.5	.0	.0	.0	10.5	
1-2	2.6	17.3	5.8	.0	.0	.0	25.7	
3-4	2.1	14.7	17.8	.0	.0	.0	34.6	
5-6	.0	2.1	12.6	2.6	.0	.0	17.3	
7	.0	.5	4.2	.5	.0	.0	5.2	
8-9	.0	.0	.5	.5	.0	.0	1.0	
10-11	.0	.0	2.1	.5	.0	.0	2.6	
12	.0	.0	.0	.5	.0	.0	.5	
13-16	.0	.0	.5	.0	.0	.0	.5	
17-19	.0	.0	.0	.5	.0	.0	.5	
20-22	.0	.0	.5	.5	.0	.5	1.6	
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	11.0	38.2	44.5	5.8	.0	.5	100.0	191

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	3.6	12.3	14.9	7.7	3.3	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	165	3
6-7	.3	2.1	7.4	10.5	9.0	1.3	3.6	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	139	6
8-9	.0	.0	1.0	2.8	4.1	2.3	2.1	.0	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	52	8
10-11	.0	.0	.3	.0	.3	.3	.8	.3	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	10
12-13	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	21
INDET	2.3	2.6	1.3	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	2
TOTAL	24	66	97	85	66	15	27	2	2	3	3	0	0	0	0	0	0	0	0	390	5
PCT	6.2	16.9	24.9	21.8	16.9	3.8	6.9	.5	.5	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	4.2	1.0	1.4	.0	.0	.0	.0	6.2	3.7	.0	1.3	.0	1.0	1.5		86.3
NE	3.2	.9	.8	.0	.0	.0	.0	4.8	1.8	.7	.1	.0	.2	.0		92.4
E	.0	.0	3.2	.0	.0	.0	.0	3.2	1.9	.0	.0	.0	.0	.0		94.9
SE	1.6	6.3	3.1	.0	.0	.0	.0	10.9	.0	6.3	.0	.0	.0	.0		82.8
S	17.9	.0	10.3	.0	.0	.0	.0	28.2	17.9	.0	.0	.0	.0	.0		53.8
SW	.0	.0	.0	.0	.0	.0	.0	.0	2.5	.0	.0	.0	.0	.0		97.5
W	22.7	.0	.0	.0	.0	.0	.0	22.7	.0	.0	.0	.0	.0	.0		77.3
NW	6.5	5.4	.0	.0	.0	.0	.0	12.0	.0	.0	.0	.0	.0	.0		88.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	3.1	.0	9.4	.0	.0	.0	.0	12.5	.0	.0	.0	.0	3.1	.0		84.4
TOT PCT	3.7	1.0	1.5	.0	.0	.0	.0	6.2	2.3	.5	.4	.0	.5	.4		89.7
TOT OBS:	775															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	7.5	1.0	3.0	.0	0	.0	.0	10.9	4.0	.5	.5	.0	1.0	.0		83.1
06&09	1.5	1.0	1.5	.0	.0	.0	.0	4.1	2.6	.0	.5	.0	.5	.5		91.8
12&15	2.9	.5	2.4	.0	.0	.0	.0	5.8	1.0	.5	.0	.0	.0	.0		92.7
18&21	3.1	1.5	2.6	.0	.0	.0	.0	7.2	1.5	1.0	1.0	.0	.5	1.0		87.6
TOT PCT	3.8	1.0	2.4	.0	.0	.0	.0	7.0	2.3	.5	.5	.0	.5	.4		88.8
TOT OBS:	796															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)						
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.8	12.9	9.5	.6	.0	.0		24.9	10.3	19.8	21.2	26.4	28.8	28.2	30.3	23.4	22.0
NE	2.6	25.6	26.7	1.5	.0	.0		56.4	11.1	54.4	57.7	57.1	58.1	59.8	55.3	58.6	56.9
E	.9	3.3	.9	.0	.0	.0		5.1	7.5	6.4	7.9	5.8	2.7	4.5	3.0	3.8	7.1
SE	.4	1.5	.1	.0	.0	.0		2.0	5.9	5.9	3.6	.4	.0	1.4	3.0	.7	3.2
S	.1	.9	.1	.0	.0	.0		1.2	6.8	3.0	1.5	2.2	.4	1.0	.0	.0	.8
SW	.2	.7	.1	.0	.0	.0		1.0	5.5	.5	1.5	.7	1.9	.2	.0	1.5	2.0
W	.4	.7	*	.0	.0	.0		1.1	4.9	2.5	.5	.7	1.3	1.3	.5	.5	1.2
NW	1.0	2.3	.3	.0	.0	.0		3.6	5.7	1.9	2.0	2.4	5.3	5.3	5.8	3.5	2.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.7							4.7	.0	7.5	4.1	4.3	1.5	4.5	2.0	8.0	4.0
TOT OBS	127	500	395	22	0	0	1044		9.7	159	98	138	132	157	99	137	124
TOT PCT	12.2	47.9	37.8	2.1	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	6.8	14.4	3.7	.0	.0		24.9	10.3	20.3	27.6	29.0	22.7
NE	12.4	35.5	8.1	.4	.0		56.4	11.1	55.6	57.6	54.4	57.8
E	2.5	2.4	.2	.0	.0		5.1	7.5	7.0	4.3	3.9	5.4
SE	1.2	.8	.0	.0	.0		2.0	5.9	3.8	.2	2.1	1.9
S	.6	.6	.0	.0	.0		1.2	6.8	3.4	1.3	.6	.4
SW	.8	.2	.0	.0	.0		1.0	5.5	.9	1.3	.1	1.7
W	.9	.3	.0	.0	.0		1.1	4.9	1.8	1.0	1.0	.9
NW	2.4	1.1	.0	.0	.0		3.6	5.7	1.9	3.8	5.5	3.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.7						4.7	.0	6.2	3.0	3.5	6.1
TOT OBS	336	579	125	4	0	1044		9.7	257	270	256	261
TOT PCT	32.2	55.5	12.0	.4	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	6.2	6.6	48.6	36.6	1.9	.0	.0	9.6	100.0	257
06&09	3.0	7.8	48.9	39.3	1.1	.0	.0	9.9	100.0	270
12&15	3.5	7.8	46.1	39.5	3.1	.0	.0	9.9	100.0	256
18&21	6.1	7.7	47.9	36.0	2.3	.0	.0	9.5	100.0	261
TOT	49	78	500	395	22	0	0	9.7		1044
PCT	4.7	7.5	47.9	37.8	2.1	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.6	4.4	10.1	7.3		5.6
NE	6.5	11.6	25.4	14.1		5.5
E	.5	.7	2.9	.4		5.5
SE	.0	.3	1.3	.4		6.5
S	.0	.0	.9	.8		7.2
SW	.3	.3	.1	.0		2.4
W	.0	.0	.0	.5		8.0
NW	.4	.0	.6	.6		5.5
VAR	.0	.0	.0	.0		.0
CALM	1.5	.8	2.0	1.8		5.1
TOT OBS	51	72	173	104	400	5.6
TOT PCT	12.8	18.0	43.3	26.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >6/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	2.6	3.6	1.8	1.3	.0	.0	.0	16.2	
NE	.5	.3	1.5	3.1	9.7	5.5	.5	.0	.0	.0	36.3	
E	.0	.0	.0	.2	.3	.4	.3	.0	.0	.0	3.4	
SE	.0	.0	.0	.6	.3	.8	.0	.0	.0	.0	.4	
S	.0	.0	.4	.4	.3	.2	.0	.0	.0	.0	.4	
SW	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.5	
W	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.1	.4	.3	.0	.0	.0	.0	.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	1.0	1.0	.3	.3	.0	.0	.0	3.5	
TOT OBS	2	1	9	32	63	37	10	0	0	0	246	400
TOT PCT	.5	.3	2.3	8.0	15.8	9.3	2.5	.0	.0	.0	61.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >6/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.5	.5	.5	.5	.5	.5	.5	.5
* OR >5000	.5	.5	.5	.5	.5	.5	.5	.5
* OR >3500	1.7	2.4	2.9	2.9	2.9	2.9	2.9	2.9
* OR >2000	7.0	10.6	12.0	12.0	12.0	12.0	12.0	12.0
* OR >1000	18.8	25.7	28.6	28.6	28.6	28.6	28.6	28.6
* OR >600	24.8	33.2	36.5	36.5	36.5	36.8	36.8	36.8
* OR >300	26.0	35.1	39.2	39.2	39.2	39.4	39.4	39.4
* OR >150	26.2	35.3	39.4	39.4	39.4	39.7	39.7	39.7
* OR > 0	26.4	35.8	39.9	39.9	39.9	40.1	40.1	40.1
TOTAL	110	149	166	166	166	167	167	167

TOTAL NUMBER OF OBS: 416 PCT FREQ NH <5/8: 59.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
9.2	7.3	16.8	15.6	14.5	9.3	12.7	7.0	11.3 .2	441

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
<1/2	NO PCP	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	
		.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	
1<2	NO PCP	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.3	
	PCP	.4	.8	.0	.0	.0	.0	.1	.0	.0	.0	1.3	
2<5	NO PCP	.4	1.8	.2	.0	.0	.1	.1	.3	.0	.1	3.0	
	TOT %	.8	2.5	.2	.0	.0	.1	.2	.3	.0	.1	4.3	
	PCP	.5	.9	.0	.1	.0	.0	.2	.2	.0	.0	1.9	
5<10	NO PCP	5.6	10.9	.9	.6	.3	.2	.1	.5	.0	.5	19.6	
	TOT %	6.1	11.5	.9	.8	.3	.2	.3	.7	.0	.5	21.5	
	PCP	.6	.8	.1	*	.4	.0	.0	.2	.0	.5	2.6	
10+	NO PCP	17.9	41.0	3.8	1.2	.8	1.0	.9	1.8	.0	3.0	70.8	
	TOT %	18.1	41.8	3.9	1.2	1.0	1.0	.9	2.0	.0	3.5	73.4	
	TOT OBS												771
	TOT PCT	25.3	56.5	5.0	2.1	1.3	1.3	1.4	3.0	.0	4.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.6	.0	.0	.0	.0	.0	.0	.0		.6	
	11-21	.2	.1	.0	.0	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.6	.0	.0	.0	.0	.0	.0	.0	.0	.8	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.2	.0	.0	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.1	.3	.1	.2	.0	.0	.0	.0	.0		.6	
	11-21	.1	.1	.0	.0	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.4	.1	.2	.0	.0	.0	.0	.0	.0	.8	
	0-3	.1	.3	.1	.0	.0	.1	.1	.1	.0	.1	.9	
2<5	4-10	.6	1.4	.0	.0	.0	.0	.1	.4	.0		2.5	
	11-21	.8	1.8	.1	.0	.0	.0	.0	.0	.0		2.7	
	22+	.1	.4	.0	.0	.0	.0	.0	.0	.0		.5	
	TOT %	1.6	3.8	.2	.0	.0	.1	.2	.5	.0	.1	6.6	
	0-3	.2	.5	.3	.2	.1	.0	.1	.1	.0	.5	2.0	
5<10	4-10	2.1	4.9	.4	.4	.1	.2	.2	.3	.0		8.5	
	11-21	2.9	4.8	.2	.1	.0	.0	.0	.2	.0		8.2	
	22+	.2	.6	.0	.0	.0	.0	.0	.0	.0		.8	
	TOT %	5.5	10.7	.8	.7	.2	.2	.2	.6	.0	.5	19.6	
	0-3	1.3	1.9	.6	.2	.1	.1	.2	.3	.0	3.8	8.5	
10+	4-10	10.3	16.9	2.4	.9	.7	.7	.6	1.6	.0		34.2	
	11-21	6.2	21.1	.4	*	.2	.1	.1	.1	.0		28.2	
	22<	.4	.8	.0	.0	.0	.0	.0	.0	.0		1.2	
	TOT %	18.2	40.6	3.5	1.2	1.0	.9	.9	2.0	.0	3.8	72.0	
	TOT OBS												849
	TOT PCT	25.7	56.5	4.6	2.1	1.2	1.2	1.3	3.1	.0	4.4	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.9	.0	4.4	9.7	23.0	9.7	.9	.0	.0	.0	48.7	51.3	113
06E09	.0	.9	2.7	9.9	17.1	8.1	3.6	.0	.0	.0	42.3	57.7	111
12E15	.0	.0	.9	5.5	11.9	13.8	1.8	.0	.0	1.8	35.8	64.2	109
18E21	1.0	.0	2.1	6.2	11.3	4.1	3.1	.0	.0	.0	27.8	72.2	97
TOT	2	1	11	34	69	39	10	0	0	2	168	262	430
PCT	.5	.2	2.6	7.9	16.0	9.1	2.3	.0	.0	.5	39.1	60.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.5	.0	.9	6.4	18.3	73.9	218
06E09	1.4	.5	.9	5.6	14.0	77.6	214
12E15	.5	.5	1.4	6.3	19.8	71.6	222
18E21	.9	.0	.0	7.9	25.0	66.2	216
TOT	7	2	7	57	168	629	870
PCT	.8	.2	.8	6.6	19.3	72.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.9	5.4	17.1	31.5	51.4	111
06E09	.0	4.6	10.7	26.9	56.5	108
12E15	.0	1.0	9.7	28.2	62.1	103
18E21	1.1	3.2	16.0	14.9	69.1	94
TOT	2	15	62	107	247	416
PCT	.5	3.6	14.9	25.7	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
85/89	.0	.0	.0	.0	.8	1.7	.0	.0	9	2.5
80/84	.0	.0	.3	.0	.6	19.1	30.9	7.0	208	58.4
75/79	.0	.0	.0	.0	.6	3.7	18.5	15.4	136	38.2
70/74	.0	.0	.0	.0	.0	.0	.0	.8	3	.8
TOTAL	0	0	1	0	7	87	176	85	356	100.0
PCT	.0	.0	.3	.0	2.0	24.4	49.4	23.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.2	2.0	.0	.0	.0	.0	.3	.1	.0	.0
14.9	38.3	3.0	.0	.8	.4	.5	.9	.0	1.7
7.0	18.3	2.2	2.0	1.1	.4	.6	1.3	.0	5.3
.3	.1	.2	.0	.0	.0	.0	.0	.0	.3
22.3	58.7	5.5	2.0	1.9	.7	1.3	2.3	.0	7.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	90	88	84	81	76	73	72	80.1	257
06E09	87	86	85	81	77	73	73	81.1	270
12E15	84	83	82	80	77	73	72	80.0	258
18E21	82	81	81	79	75	73	72	79.-	269
TOT	90	86	84	81	76	73	72	80.1	1054

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	2.2	16.5	44.0	37.4	86	91
06E09	.0	1.1	3.4	33.6	42.9	17.2	81	87
12E15	.0	.0	2.0	29.3	49.5	19.2	84	99
18E21	.0	.0	1.0	14.2	54.1	30.6	86	98
TOT	0	1	8	89	179	98	84	375

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	TOT	N FOG	WD FOG
11/13	.0	.0	.0	.1	.0	.0	1	.0	.1
9/10	.0	.0	.4	.1	.0	.0	4	.0	.5
7/8	.0	.0	.3	.0	.1	.0	3	.0	.4
6	.0	.0	.0	.1	.0	.0	1	.0	.1
5	.0	.0	.0	.4	.4	.0	6	.0	.8
4	.0	.0	.5	3.6	1.1	.0	32	.0	5.2
3	.0	.0	.0	1.0	.3	.0	9	.0	1.2
2	.0	.3	1.1	9.3	.3	.1	81	.0	11.1
1	.0	.0	1.5	3.7	.1	.0	39	.0	5.3
0	.0	1.5	9.0	18.4	.0	.0	212	.1	28.8
-1	.0	.3	6.8	3.6	.1	.0	79	.0	10.8
-2	.0	1.9	10.1	6.1	.0	.0	133	.0	18.2
-3	.0	.4	3.0	1.4	.0	.0	35	.0	4.8
-4	.0	1.8	4.9	1.0	.0	.0	56	.0	7.7
-5	.1	.3	1.5	.1	.0	.0	15	.0	2.0
-6	.1	.4	.8	.1	.0	.0	11	.0	1.5
-7/-8	.1	.8	.0	.1	.0	.0	8	.1	1.0
-9/-10	.1	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	4	56	293	360	18	1	732	2	730
PCT	.5	7.7	40.0	49.2	2.5	.1	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.5	.0	.0	.0	.0	2.5
1-2	.3	2.9	1.3	.0	.0	.0	4.8
3-4	.0	7.3	5.3	.4	.0	.0	13.0
5-6	.0	.5	3.5	.3	.0	.0	4.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	1.1	.0	.0	1.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	13.3	10.1	2.0	.0	.0	25.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.2	.0	.0	.0	.0	1.7
1-2	1.1	6.3	2.4	.0	.0	.0	9.7
3-4	.5	4.9	14.2	.7	.0	.0	20.3
5-6	.0	.5	8.2	1.6	.0	.0	10.4
7	.0	1.6	6.9	3.2	.0	.0	11.7
8-9	.0	.0	.5	.0	.0	.0	.5
10-11	.0	.5	2.1	.5	.0	.0	3.2
12	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.1	15.0	34.6	6.0	.0	.0	57.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	.0	.0	.0	.0	.0	1.1
1-2	.0	1.3	.0	.0	.0	.0	1.3
3-4	1.1	.5	.0	.0	.0	.0	1.6
5-6	.0	.0	.5	.0	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.4	.0	.0	.0	.4
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.1	1.9	.9	.0	.0	.0	4.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5
1-2	.0	.5	.0	.0	.0	.0	.5
3-4	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.5	.0	.0	.0	.0	.5
7	.0	.5	.0	.0	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.3	.0	.0	.0	.0	2.3

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TABLE 18 (CONT) 3.7N 111.7E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.4	.0	.0	.0	.4
3-4	.0	.4	.0	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.4	.4	.0	.0	.0	.8

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.1	.0	.0	.0	.1
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.5	.0	.0	.0	.0	.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.1	.0	.0	.0	.0	1.1

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.5	.0	.0	.0	.0	.5	
1-2	.0	.7	.5	.0	.0	.0	1.2	
3-4	.0	.0	.1	.0	.0	.0	.1	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.2	.9	.0	.0	.0	1.9	94.7

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	5.2	.0	.0	.0	.0	13.0	
1-2	2.6	11.5	4.7	.0	.0	.0	18.8	
3-4	1.6	13.5	19.3	1.0	.0	.0	35.4	
5-6	.0	1.6	12.0	2.1	.0	.0	15.6	
7	.0	2.1	6.8	3.1	.0	.0	12.0	
8-9	.0	.0	.5	.0	.0	.0	.5	
10-11	.0	.5	2.1	1.6	.0	.0	4.2	
12	.0	.0	.5	.0	.0	.0	.5	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								192
TOT PCT	12.0	34.4	45.8	7.8	.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	1.3	11.9	18.8	5.9	1.6	.9	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	133	3
6-7	.3	2.2	10.6	11.6	5.6	2.8	2.2	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	115	5
8-9	.0	.6	1.3	3.4	5.3	2.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	43	6
10-11	.0	.3	.6	.6	.3	1.3	.9	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	7
12-13	.0	.0	.3	.0	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	6
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	3.1	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	0
TOTAL	15	50	101	69	43	24	15	3	0	0	0	0	0	0	0	0	0	0	0	320	4
PCT	4.7	15.6	31.6	21.6	13.4	7.5	4.7	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1931-1973
(OVER-ALL) 1870-1973

AREA 0007 SARAWAK
3.7N 111.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	3.5	2.0	1.5	.0	.0	.0	.0	7.0	3.0	3.0	.0	.0	1.9		.0	85.7
NE	2.2	.4	1.0	.0	.0	.0	.0	3.3	1.0	2.2	.3	.0	.4		.0	92.8
E	4.1	.0	.0	.0	.0	.0	.0	4.1	4.5	1.6	.0	.0	.0		.0	89.8
SE	12.5	.0	4.5	.0	.0	.0	.0	17.0	4.5	.0	.0	.0	.0		.0	78.4
S	15.1	5.5	.0	.0	.0	.0	.0	20.5	5.5	5.5	.0	.0	.0		.0	68.5
SW	15.0	5.0	.0	.0	.0	.0	.0	20.0	1.3	.0	.0	.0	.0		.0	78.8
W	27.9	.0	9.3	.0	.0	.0	.0	37.2	7.0	.0	.0	.0	.0		.0	55.8
NW	.0	.0	.0	.0	.0	.0	.0	.0	1.2	7.3	.0	.0	6.1		4.9	80.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	3.4	.0	.0	.0	.0	3.4	.0	1.7	5.2	.0	.0		.0	89.7
TOT PCT	3.9	.9	1.4	.0	.0	.0	.0	6.1	2.0	2.4	.6	.0	.8		.2	88.1
TOT OBS:	636															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	5.5	.6	2.8	.0	.0	.0	.0	8.6	3.7	.6	1.8	.0	.6		.0	85.3
06&09	4.8	1.2	.6	.0	.0	.0	.0	6.0	3.0	.0	.0	.0	.6		.0	90.5
12&15	1.8	.6	1.8	.0	.0	.0	.0	4.2	1.2	3.6	.0	.0	1.2		.0	89.9
18&21	3.7	1.2	1.2	.0	.0	.0	.0	6.2	.6	5.0	.6	.0	.6		.6	86.3
TOT PCT	3.9	.9	1.5	.0	.0	.0	.0	6.2	2.1	2.3	.6	.0	.8		.2	88.0
TOT OBS:	660															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.2	13.7	4.7	.1	.0	.0		20.7	8.1	17.5	16.1	15.7	30.7	24.0	25.9	21.1	19.2
NE	2.5	31.6	14.0	.3	.1	.0		48.6	9.3	49.5	48.8	45.7	49.7	46.0	53.1	49.8	51.2
E	1.8	6.3	.8	.0	.1	.0		9.0	6.4	11.8	14.1	12.5	3.6	7.6	8.5	5.5	7.6
SE	.9	2.1	.1	.0	.0	.0		3.2	5.2	3.0	11.3	3.5	2.1	.8	2.7	1.6	4.7
S	.3	1.9	.1	.0	.0	.0		2.4	6.1	3.4	3.2	3.4	.0	1.8	2.7	1.4	2.9
SW	.6	1.7	.7	.0	.0	.0		3.0	7.6	3.9	.0	9.7	3.0	2.3	2.7	.4	3.8
W	.4	1.0	.1	.0	.0	.0		1.4	6.3	1.1	1.6	.9	2.4	2.9	.0	1.0	.9
NW	1.0	2.0	.2	.0	.0	.0		3.2	5.5	.5	3.2	1.4	6.3	4.5	2.7	6.7	1.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.3							8.4	.0	9.3	1.6	11.1	2.4	10.1	1.8	12.6	8.1
TOT OBS	157	524	180	3	2	0	866		7.6	140	62	162	86	149	56	127	86
TOT PCT	18.1	60.5	20.8	.3	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	8.2	12.0	.5	.0	.0		20.7	8.1	17.1	20.8	24.5	20.3
NE	13.7	31.7	2.9	.3	.0		48.6	9.3	49.3	47.1	47.9	50.4
E	5.5	3.4	.1	.1	.0		9.0	6.4	12.5	9.5	7.8	6.3
SE	2.4	.7	.1	.0	.0		3.2	5.2	5.6	3.0	1.3	2.8
S	1.6	.8	.0	.0	.0		2.4	6.1	3.3	2.2	2.1	2.0
SW	1.8	.8	.4	.0	.0		3.0	7.6	2.7	4.8	2.4	1.8
W	1.0	.3	.1	.0	.0		1.4	6.3	1.2	1.4	2.1	.9
NW	2.3	1.0	.0	.0	.0		3.3	5.5	1.4	3.0	4.0	4.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	8.4						8.4	.0	6.9	8.1	7.8	10.8
TOT OBS	388	440	35	3	0	866		7.6	202	246	205	213
TOT PCT	44.8	50.8	4.0	.3	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1931-1973
(OVER-ALL) 1870-1973

AREA 0007 SARAWAK
3.7N 111.7E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT.

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	6.9	11.9	59.4	21.3	.0	.5	.0	7.5	100.0	202
06&09	8.1	10.6	60.6	20.3	.4	.0	.0	7.5	100.0	246
12&15	7.8	7.8	60.5	23.4	.5	.0	.0	7.7	100.0	205
18&21	10.8	8.9	61.0	18.3	.5	.5	.0	7.5	100.0	213
TOT	73	85	523	180	3	2	0	7.6		866
PCT	8.4	9.8	60.4	20.8	.3	.2	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.2	4.8	8.1	5.3		5.4
NE	7.3	10.4	20.8	4.4		4.9
E	1.0	2.4	5.1	2.2		5.7
SE	.4	.4	.8	1.1		6.2
S	.4	.2	1.0	1.8		6.4
SW	.4	.2	1.3	1.3		6.3
W	.2	.2	.8	.4		5.8
NW	.8	.5	1.3	.4		4.5
VAR	.0	.0	.0	.0		.0
CALM	2.4	1.5	5.3	2.7		5.1
TOT OBS	62	85	184	81	412	5.2
TOT PCT	15.0	20.6	44.7	19.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.2	3.3	3.4	.6	.5	.0	.0	.0	12.3	
NE	.0	.0	.0	3.0	4.1	3.3	1.2	.7	.0	.0	30.6	
E	.0	.0	.4	.4	1.7	1.7	.2	.0	.0	.0	6.2	
SE	.0	.0	.1	.5	.5	.5	.0	.0	.0	.0	1.1	
S	.0	.0	.0	.0	1.2	.7	.2	.0	.0	.0	1.3	
SW	.1	.0	.0	.8	.5	1.0	.0	.0	.0	.0	1.0	
W	.2	.0	.0	.6	.2	.0	.0	.0	.0	.0	.6	
NW	.0	.0	.0	.1	.8	.0	.0	.0	.0	.0	2.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	1.0	1.0	1.9	.7	.0	.0	.0	7.3	
TOT OBS	1	0	3	40	55	40	12	3	0	0	258	412
TOT PCT	.2	.0	.7	9.7	13.3	9.7	2.9	.7	.0	.0	62.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.2	.7	.7	.7	.7	.7	.7	.7
* OR >3500	3.1	3.5	3.5	3.5	3.5	3.5	3.5	3.5
* OR >2000	11.5	13.6	13.6	13.9	13.9	13.9	13.9	13.9
* OR >1000	21.6	27.5	27.8	28.0	28.0	28.0	28.0	28.0
* OR >600	27.5	35.8	36.7	37.4	37.4	37.4	37.4	37.4
* OR >300	28.2	36.5	37.4	38.1	38.1	38.1	38.1	38.1
* OR >150	28.2	36.5	37.4	38.1	38.1	38.1	38.1	38.1
* OR > 0	28.2	36.5	37.6	38.4	38.4	38.4	38.4	38.4
TOTAL	120	155	160	163	163	163	163	163

TOTAL NUMBER OF OBS: 425

PCT FREQ NH <5/8: 61.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
4.3	11.5	16.5	16.5	13.0	10.0	9.3	7.8	11.0	.2	402

MARCH

PERIOD: (PRIMARY) 1931-1973
(OVER-ALL) 1870-1973

AREA 0007 SARAWAK
3.7N 111.7E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	PCP	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
1/2<1	NO PCP	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	PCP	.6	.6	.0	.0	.0	.2	.1	.0	.0	.0	1.4	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.6	.6	.0	.0	.0	.2	.1	.0	.0	.0	1.4	
	PCP	.2	.1	.1	.2	.2	.4	.1	.0	.0	.0	1.3	
2<5	NO PCP	.2	.2	.3	.0	.3	.2	.0	.0	.0	.2	1.3	
	TOT %	.4	.3	.4	.2	.5	.5	.1	.0	.0	.2	2.5	
	PCP	.5	.5	.0	.2	.1	*	.4	.0	.0	.2	1.9	
5<10	NO PCP	3.4	5.0	.9	.3	.2	.7	.3	.4	.0	.5	11.6	
	TOT %	3.9	5.5	.9	.5	.3	.7	.7	.4	.0	.6	13.5	
	PCP	.1	.4	.3	.2	.3	.0	.0	.0	.0	.2	1.4	
10+	NO PCP	16.2	38.8	8.1	2.6	1.8	1.7	.8	2.8	.0	8.0	80.7	
	TOT %	16.3	39.1	8.4	2.7	2.1	1.7	.8	2.8	.0	8.2	82.1	
	TOT OBS												636
	TOT PCT	21.2	45.6	9.7	3.5	2.9	3.1	1.7	3.2	.0	9.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.1	.1	.0	.0	.0	.0	.0	.0	.0		.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.1	.4	.0	.0	.0	.1	.1	.0	.0		.6	
	11-21	.4	.3	.0	.0	.0	.3	.0	.0	.0		1.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.5	.7	.0	.0	.0	.4	.1	.0	.0	.0	1.6	
	0-3	.0	.0	.0	.0	.1	.1	.0	.0	.0	.1	.4	
2<5	4-10	.4	.6	.1	.2	.1	.0	.0	.1	.0		1.6	
	11-21	.3	.1	.3	.0	.1	.3	.1	.0	.0		1.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.6	.7	.4	.2	.4	.5	.1	.1	.0	.1	3.3	
	0-3	.1	.3	.1	.1	.0	*	.3	.0	.0	.6	1.6	
5<10	4-10	1.8	2.6	.6	.3	.3	.6	.4	.3	.0		7.0	
	11-21	1.8	2.4	.1	.0	.0	.0	.0	*	.0		4.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	3.7	5.4	.9	.5	.3	.7	.7	.4	.0	.6	13.0	
	0-3	1.2	2.6	1.8	.7	.1	.3	.0	.6	.0	7.8	15.1	
10+	4-10	11.7	28.4	5.7	2.1	1.9	1.0	.7	2.0	.0		51.6	
	11-21	3.2	9.9	.4	.1	.0	.3	.0	.1	.0		14.1	
	22+	.1	.6	.1	.0	.0	.0	.0	.0	.0		.7	
	TOT %	16.1	39.4	8.1	2.9	2.0	1.6	.7	2.7	.0	7.9	81.6	
	TOT OBS												668
	TOT PCT	21.1	48.3	9.4	3.6	2.7	3.1	1.6	3.2	.0	8.8	100.0	

PERIOD: (PRIMARY) 1931-1973
(OVER-ALL) 1870-1973

AREA 0007 SARAWAK
3.7N 111.7E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	.0	10.4	13.0	7.8	1.7	1.7	.0	.0	34.8	65.2	115
06E09	.0	.0	.9	10.3	13.8	12.1	3.4	.0	.0	.0	40.5	59.5	116
12E15	.0	.0	.9	7.3	17.4	7.3	5.5	.9	.0	.0	39.4	60.6	109
18E21	.9	.0	.9	7.4	9.3	12.0	.0	.0	.0	.0	30.6	69.4	108
TOT	1	0	3	40	60	44	12	3	0	0	163	285	448
PCT	.2	.0	.7	8.9	13.4	9.8	2.7	.7	.0	.0	36.4	63.6	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
00E03	.6	.0	.6	3.0	11.3	84.5	168
06E09	.0	.0	2.8	3.4	9.0	84.7	177
12E15	.0	.0	2.3	1.1	17.2	79.3	174
18E21	.0	1.2	1.2	5.2	15.0	77.5	173
TOT	1	2	12	22	91	564	692
PCT	.1	.3	1.7	3.2	13.2	81.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	.0	12.0	25.9	62.0	108
06E09	.0	.9	13.5	29.7	56.8	111
12E15	.0	1.0	8.7	33.0	58.3	103
18E21	1.0	1.9	11.7	21.4	67.0	103
TOT	1	4	49	117	259	425
PCT	.2	.9	11.5	27.5	60.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.3	.3	.0	.0	.0	2	.6
85/89	.0	.0	.0	.3	.8	1.9	1.4	.6	18	5.0
80/84	.0	.0	.0	.0	.0	16.0	44.6	11.0	260	71.6
75/79	.0	.0	.0	.0	.0	1.7	11.6	9.1	81	22.3
70/74	.0	.0	.0	.0	.0	.0	.0	.6	2	.6
TOTAL	0	0	0	2	4	71	209	77	363	100.0
PCT	.0	.0	.0	.6	1.1	19.6	57.6	21.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0
	1.0	1.2	1.0	.1	.3	.3	.0	.1	.0	1.1
	13.8	33.1	7.4	1.9	1.8	2.0	1.2	3.1	.0	7.4
	4.0	8.1	1.3	1.0	1.5	1.0	.7	.1	.0	4.7
	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3
	18.7	42.6	9.6	3.0	3.6	3.5	2.1	3.3	.0	13.5

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	88	86	84	81	75	74	74	80.7	205
06E09	94	93	86	82	77	75	72	82.3	236
12E15	88	85	84	81	77	75	72	80.9	206
18E21	86	84	83	81	76	73	72	80.2	220
TOT	94	88	85	81	77	74	72	81.0	867

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	.0	9.5	56.8	33.7	87	95
06E09	.0	2.2	4.3	34.8	42.4	16.3	81	92
12E15	.0	.0	.0	21.2	63.6	15.2	84	99
18E21	.0	.0	.0	9.4	68.8	21.9	86	96
TOT	0	2	4	71	222	83	85	382

PERIOD: (PRIMARY) 1931-1973
(OVER-ALL) 1870-1973

AREA 0007 SARAWAK
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.0	.2	1	.0	.2
9/10	.0	.0	.0	.0	.0	.0	.2	1	.0	.2
7/8	.0	.0	.0	.0	.2	.0	.0	1	.0	.2
6	.0	.0	.0	.0	.3	.0	.0	2	.0	.3
5	.0	.0	.0	.5	.7	.0	.3	9	.0	1.5
4	.0	.0	.2	1.7	1.8	.0	.0	22	.0	3.7
3	.0	.0	.0	.3	.2	.0	.0	3	.0	.5
2	.0	.0	.5	5.8	.3	.2	.0	41	.0	6.8
1	.0	.0	1.7	4.8	.2	.0	.0	40	.0	6.7
0	.0	.2	3.8	21.9	.3	.0	.0	157	.2	26.0
-1	.0	.0	5.5	9.0	.2	.0	.0	88	.0	14.7
-2	.2	.8	7.3	10.7	.3	.0	.0	116	.0	19.4
-3	.0	.2	3.5	2.2	.0	.0	.0	35	.0	5.8
-4	.0	1.0	4.2	1.5	.0	.0	.0	40	.2	6.5
-5	.2	1.3	2.2	.2	.0	.0	.0	23	.0	3.8
-6	.0	.5	.5	.3	.0	.0	.0	8	.2	1.2
-7/-8	.0	.3	.2	.8	.0	.0	.0	8	.2	1.2
-9/-10	.0	.5	.0	.0	.0	.0	.0	3	.0	.5
-11/-13	.2	.0	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	3	29	177	358	27	1	4	599	4	595
PCT	.5	4.8	29.5	59.8	4.5	.2	.7	100.0	.7	99.3

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1
1-2	.6	8.5	3.1	.0	.0	.0	12.1
3-4	.0	4.9	3.8	.0	.0	.0	8.8
5-6	.0	.4	.4	.0	.0	.0	.8
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	15.0	7.3	.0	.0	.0	22.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	1.4	.0	.0	.0	.0	2.5
1-2	1.1	13.7	3.7	.0	.0	.0	18.5
3-4	.0	9.2	3.8	.0	.0	.0	13.0
5-6	.0	.6	.7	.6	.0	.0	1.8
7	.0	.0	1.7	.0	.0	.0	1.7
8-9	.0	.0	.0	.0	.7	.0	.7
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.3	24.9	9.9	.6	.7	.0	38.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.6	2.5	.0	.0	.0	.0	4.1
1-2	1.1	4.0	.8	.0	.0	.0	5.9
3-4	.0	.0	.8	.0	.0	.0	.8
5-6	.0	.6	.0	.0	.0	.0	.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.4	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-85	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.7	7.1	1.7	.0	.4	.0	11.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.0	.0	.0	.0	.0	.7
1-2	.0	2.5	.0	.0	.0	.0	2.5
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-85	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	2.5	.0	.0	.0	.0	3.2

MARCH

PERIOD: (OVER-ALL) 1963-1973 AREA 0009 SARAWAK 3.7N 111.7E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.1	.0	.0	.0	.0	3.1
3-4	.0	.4	.0	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.5	.0	.0	.0	.0	3.5

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.0	1.4	.6	.0	.0	.0	2.0
3-4	.0	.1	.1	.0	.0	.0	.3
5-6	.0	.0	1.7	.0	.0	.0	1.7
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.7	2.4	.0	.0	.0	4.1

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.4	.0	.0	.0	.0	1.0
1-2	.0	.4	.0	.0	.0	.0	.4
3-4	.0	.0	.4	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	.8	.4	.0	.0	.0	1.8

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	3.1	.3	.0	.0	.0	3.4	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.1	.0	.0	.0	.0	.1	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.1	.0	.0	.0	.0	
71-86	.0	.0	.2	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	3.2	.3	.0	.0	.0	3.5	89.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	14.1	5.6	.0	.0	.0	.0	19.8	
1-2	2.8	36.7	8.5	.0	.0	.0	48.0	
3-4	.0	14.7	9.0	.0	.0	.0	23.7	
5-6	.6	1.7	2.8	.6	.0	.0	5.6	
7	.0	.0	1.7	.0	.0	.0	1.7	
8-9	.0	.0	.0	.0	1.1	.0	1.1	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	17.5	58.8	22.0	.6	1.1	.0	100.0	177

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	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	7.0	29.7	12.0	2.9	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	178	2
6-7	.0	3.2	7.6	7.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	68	4
8-9	.0	.6	.6	3.8	.6	1.5	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	7
10-11	.0	.0	.0	.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	6
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDEF	11.4	4.4	1.7	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	64	1
TOTAL	63	130	75	52	12	5	0	6	0	0	0	0	0	0	0	0	0	0	0	349	3
PCT	18.4	37.9	21.9	15.2	3.5	1.5	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1929-1973
(OVER-ALL) 1858-1973

AREA 0007 SARAWAK
3.6N 111.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	4.5	.0	.0	.0	.0	.0	.0	4.5	.0	6.8	1.5	.0	.0	.0		88.6
NE	1.5	.0	.0	.0	.0	.0	.0	1.5	.8	2.7	.8	.0	.8	.0		93.5
E	.0	.0	.0	.0	.0	.0	.0	.0	2.5	4.4	.0	.0	.0	.0		93.0
SE	6.4	5.1	5.1	.0	.0	.0	.0	16.7	.0	1.3	.0	.0	.0	.0		82.1
S	11.5	10.6	3.8	.0	.0	.0	.0	26.0	2.9	5.8	.0	.0	.0	.0		67.3
SW	5.7	.8	.0	.0	.0	.0	.0	6.6	.8	1.6	.0	.0	.8	.0		91.8
W	5.3	.0	.0	.0	.0	.0	.0	5.3	3.5	3.5	.0	.0	2.6	.0		85.1
NW	8.4	.0	.0	.0	.0	.0	.0	8.4	3.4	.0	.0	.0	.0	.0		88.2
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	1.1	5.5	1.1	.0	.0	.0		90.1
TOT PCT	3.5	.9	.7	.0	.0	.0	.0	5.0	1.3	3.9	.7	.0	.4	.0		89.2
TOT OBS:	461															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	6.5	1.6	1.6	.0	.0	.0	.0	9.7	1.6	.8	2.4	.0	.0	.0		86.3
06&09	3.1	.8	.0	.0	.0	.0	.0	3.9	2.4	.0	.0	.0	.0	.0		93.7
12&15	1.6	.8	.0	.0	.0	.0	.0	2.3	.8	7.0	.8	.0	.8	.0		88.4
18&21	4.2	.0	.8	.0	.0	.0	.0	5.0	.8	10.1	.8	.0	.8	.0		84.0
TOT PCT	3.8	.8	.6	.0	.0	.0	.0	5.2	1.4	4.4	1.0	.0	.4	.0		88.2
TOT OBS:	499															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	4.7	10.4	.7	.0	.0	.0		15.8	5.4	10.3	16.1	11.2	20.9	15.9	24.0	18.8	22.8
NE	6.0	15.9	3.0	.0	.0	.0		24.9	6.4	25.0	21.4	29.1	26.4	27.0	22.9	22.4	17.5
E	1.6	5.1	1.1	.0	.0	.0		7.8	6.5	11.2	10.7	9.7	.9	4.9	6.3	9.9	5.3
SE	.5	3.4	.3	.0	.0	.0		4.2	6.2	7.0	12.5	6.3	1.8	.8	.0	2.2	5.3
S	1.7	3.8	.7	.0	.0	.0		6.2	6.1	6.4	3.6	12.5	2.7	5.1	.0	3.1	8.3
SW	1.4	5.9	.9	.0	.0	.0		8.2	6.6	8.1	23.2	7.1	12.3	8.1	4.2	3.8	9.2
W	1.8	4.1	.8	.0	.0	.0		6.7	5.9	2.1	5.4	4.0	12.3	9.8	12.5	5.0	7.0
NW	1.7	4.7	.2	.0	.0	.0		6.6	5.2	1.9	.0	2.6	13.6	11.4	5.2	11.8	1.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	19.4							19.4	.0	28.1	7.1	15.5	9.1	17.1	25.0	23.1	22.8
TOT OBS	244	335	49	0	0	0	628		4.9	121	28	116	55	123	24	104	57
TOT PCT	38.9	53.3	7.8	.0	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)							HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	11.1	4.7	.0	.0	.0		15.8	5.4	11.4	14.3	17.2	20.2
NE	14.3	10.6	.0	.0	.0		24.9	6.4	24.3	28.2	26.4	20.7
E	4.6	3.1	.2	.0	.0		7.8	6.5	11.1	6.9	5.1	8.2
SE	2.8	1.4	.0	.0	.0		4.2	6.2	8.1	4.8	.7	3.3
S	3.8	2.3	.1	.0	.0		6.2	6.1	5.9	9.4	4.3	5.0
SW	4.3	3.8	.1	.0	.0		8.2	6.6	10.9	8.8	7.5	5.7
W	4.4	2.3	.0	.0	.0		6.7	5.9	2.7	8.0	10.2	5.7
NW	5.1	1.4	.0	.0	.0		6.6	5.2	1.5	6.1	10.4	8.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	19.4						19.4	.0	24.2	13.5	10.4	23.0
TOT OBS	439	187	2	0	0	628		4.9	149	171	147	161
TOT PCT	69.9	29.8	.3	.0	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1929-1973
(OVER-ALL) 1858-1973

AREA 0007 SARAWAK
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	24.2	16.8	49.7	9.4	.0	.0	.0	4.7	100.0	149
06&09	13.5	23.4	53.2	9.9	.5	.0	.0	5.3	100.0	171
12&15	18.4	19.7	54.4	7.5	.0	.0	.0	5.1	100.0	167
18&21	23.0	17.4	55.3	4.3	.0	.0	.0	4.5	100.0	161
TOT	123	122	334	49	0	0	0	4.9		628
PCT	19.6	19.4	53.2	7.8	.0	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.8	3.9	3.9	1.4		4.1
NE	8.0	10.0	10.2	1.5		3.9
E	1.4	3.3	3.3	.8		4.6
SE	.3	1.2	1.9	.8		5.3
S	.0	1.4	1.3	1.8		6.1
SW	.3	1.6	2.3	.8		5.3
W	.6	1.4	3.5	.8		5.1
NW	1.9	1.6	1.3	1.0		4.0
VAR	.0	.0	.0	.0		.0
CALM	6.1	5.8	9.0	1.6		4.1
TOT OBS	70	94	116	33	311	4.3
TOT PCT	22.5	30.2	36.7	10.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.3	2.0	1.0	.3	.0	.0	.0	9.4	
NE	.0	.0	.0	.3	1.4	1.4	.7	.1	.3	.0	25.5	
E	.0	.0	.0	.0	.0	.6	.9	.2	.0	.0	7.2	
SE	.0	.1	.0	.0	.6	.4	.3	.0	.0	.0	2.8	
S	.0	.3	.0	.5	.2	1.1	.0	.0	.0	.0	2.4	
SW	.1	.0	.0	.6	.8	.2	.0	.0	.0	.0	3.4	
W	.2	.0	.0	.6	.9	.2	.3	.0	.0	.0	4.0	
NW	.0	.0	.0	.6	.7	.2	.3	.0	.0	.0	3.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	3.2	.6	.0	.3	.0	.3	18.0	
TOT OBS	1	1	0	9	31	18	9	2	1	1	238	311
TOT PCT	.3	.3	.0	2.9	10.0	5.8	2.9	.6	.3	.3	76.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) • OR >10	• OR >5	• OR >2	• OR >1	• OR >1/2	• OR >1/4	• OR >50YD	• OR >0
• OR >6500	.9	.9	.9	.9	.9	.9	.9	.9
• OR >5000	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
• OR >3500	3.8	3.8	4.1	4.1	4.1	4.1	4.1	4.1
• OR >2000	7.9	9.4	9.7	10.3	10.3	10.3	10.3	10.3
• OR >1000	16.2	18.8	19.7	20.3	20.3	20.3	20.3	20.3
• OR >600	18.5	21.5	22.4	22.9	22.9	22.9	22.9	22.9
• OR >300	18.5	21.5	22.4	22.9	22.9	22.9	22.9	22.9
• OR >150	18.8	21.8	22.6	23.2	23.2	23.2	23.2	23.2
• OR > 0	18.8	22.1	22.9	23.5	23.5	23.5	23.5	23.5
TOTAL	64	75	78	80	80	80	80	80

TOTAL NUMBER OF OBS: 340 PCT FREQ NH <5/8: 76.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
6.6	18.0	18.0	20.8	13.7	6.6	7.1	3.6	5.5 .3	366

APRIL

PERIOD: (PRIMARY) 1929-1973
(OVER-ALL) 1858-1973

AREA 0007 SARAWAK
3.6N 111.7E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	.2	
1<2	NO PCP	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.0	.0	.3	.1	.0	.0	.0	.0	.4	
	PCP	.0	.0	.0	.2	.0	.0	.0	.2	.0	.0	.4	
2<5	NO PCP	.0	.7	.0	.0	.2	.2	.2	.2	.0	.0	1.5	
	TOT %	.0	.7	.0	.2	.2	.2	.2	.4	.0	.0	2.0	
	PCP	.7	.4	.0	.2	.4	.2	.3	.1	.0	.4	2.8	
5<10	NO PCP	2.0	3.3	.6	.5	.9	1.6	.9	1.2	.0	3.5	14.3	
	TOT %	2.6	3.7	.6	.7	1.3	1.8	1.3	1.3	.0	3.9	17.2	
	PCP	.0	.0	.0	.3	.9	.2	.0	.2	.0	.0	1.5	
10+	NO PCP	11.7	24.0	8.0	3.0	2.9	4.5	4.7	4.5	.0	15.7	78.9	
	TOT %	11.7	24.0	8.0	3.3	3.8	4.9	4.7	4.7	.0	15.7	80.4	
	TOT OBS												460
	TOT PCT	14.3	28.3	9.6	4.2	5.7	6.6	6.2	6.5	.0	19.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.0	.0	.1	.0	.0	.0		.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.4	
	0-3	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
2<5	4-10	.0	.6	.0	.2	.2	.2	.2	.2	.0		1.7	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.6	.0	.2	.2	.2	.2	.4	.0	.0	1.9	
	0-3	.5	1.0	.2	.0	.2	.0	.2	.1	.0	3.7	6.0	
5<10	4-10	2.0	2.5	.4	.6	1.0	1.5	.8	1.0	.0		9.8	
	11-21	.0	.2	.0	.2	.1	.2	.2	.1	.0		1.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	2.5	3.7	.6	.8	1.3	1.7	1.2	1.2	.0	3.7	16.8	
	0-3	3.9	5.4	1.3	.7	1.6	.8	1.0	1.8	.0	16.2	32.2	
10+	4-10	7.9	14.7	5.0	2.6	2.3	3.1	2.9	3.5	.0		42.1	
	11-21	.3	3.3	1.3	.1	.5	.4	.6	.2	.0		6.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	12.1	23.4	7.6	3.4	4.5	4.3	4.5	4.7	.0	16.4	80.9	
	TOT OBS												482
	TOT PCT	14.6	27.7	8.2	4.4	6.3	6.3	5.9	6.4	.0	20.1	100.0	

PERIOD: (PRIMARY) 1929-1973
(OVER-ALL) 1958-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NM >4/8) AND OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	.0	4.3	13.0	5.4	4.3	1.1	.0	2.2	30.4	69.6	92
06E09	.0	1.1	.0	2.2	7.5	6.5	2.2	.0	.0	.0	19.4	80.6	93
12E15	.0	.0	.0	2.1	7.4	6.3	2.1	.0	.0	.0	17.9	82.1	95
18E21	1.2	.0	.0	1.2	10.8	4.8	1.2	1.2	1.2	.0	21.7	78.3	83
TOT	1	1	0	9	35	21	9	2	1	2	81	282	363
PCT	.3	.3	.0	2.5	9.6	5.8	2.5	.6	.3	.6	22.3	77.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.0	.0	.0	3.1	12.6	84.3	127
06E09	.0	.0	.0	.0	17.0	83.0	135
12E15	.0	.0	.0	4.5	16.4	79.1	134
18E21	.0	.0	1.6	.0	18.5	79.8	124
TOT	0	0	2	10	84	424	520
PCT	.0	.0	.4	1.9	16.2	81.5	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 <500YD	<600 <1	<1000 <5	1000+ AND5+	NM <5/8 AND 5+	TOTAL OBS
00E03	.0	.0	7.0	24.4	68.6	86
06E09	.0	1.1	3.4	17.0	79.5	88
12E15	.0	.0	4.6	16.1	79.3	87
18E21	1.3	1.3	5.1	17.7	77.2	79
TOT	1	2	17	64	259	340
PCT	.3	.6	5.0	18.8	76.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-59	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.0	.3	.0	.0	.0	1	.3
90/94	.0	.0	.0	.3	.0	1.0	.0	.0	4	1.3
85/89	.0	.0	.0	.0	2.0	7.9	3.3	2.3	47	15.5
80/84	.0	.0	.0	.0	3.3	23.0	39.1	10.5	231	76.0
75/79	.0	.0	.0	.0	.0	.0	1.3	3.6	21	6.9
TOTAL	0	0	0	1	17	97	133	56	304	100.0
PCT	.0	.0	.0	.3	5.6	31.9	43.8	18.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.3	.3	.0	.6	.0	.0	.0	.0	.0
.2	.7	.0	.0	.0	.1	.2	.0	.0	.0
2.0	5.3	1.6	1.0	.2	.6	.9	.3	.0	3.6
9.2	22.6	7.0	3.0	2.8	4.8	4.8	5.1	.0	16.8
.8	.8	.3	.4	.8	.4	.7	.7	.0	2.0
12.3	29.9	8.9	4.4	3.8	5.8	6.6	6.1	.0	22.4

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	93	90	86	82	78	74	73	82.1	154
06E09	95	92	89	84	80	76	76	84.3	173
12E15	95	87	86	82	80	78	75	82.6	156
18E21	87	86	84	82	79	77	74	81.6	172
TOT	95	90	87	82	79	76	73	82.7	655

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-89	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	3.4	21.6	47.7	27.8	84	88
06E09	.0	1.2	9.3	43.0	33.7	12.8	79	86
12E15	.0	.0	4.5	33.7	42.7	19.1	82	89
18E21	.0	.0	2.6	23.4	51.9	22.1	83	77
TOT	0	1	17	104	149	69	52	340

APRIL

PERIOD: (PRIMARY) 1929-1973
(OVER-ALL) 1856-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.2	1	.0	.2
9/10	.0	.0	.0	.4	.2	.4	5	.0	1.1
7/8	.0	.0	.0	.4	.2	.0	3	.0	.6
6	.0	.0	.2	.4	.0	.0	3	.0	.6
5	.0	.0	.4	.9	1.1	.0	11	.0	2.4
4	.0	.0	.6	1.3	.6	.0	12	.0	2.6
3	.0	.0	.0	1.7	.2	.0	9	.0	1.9
2	.0	.0	2.1	2.6	.0	.0	22	.0	4.7
1	.0	.0	3.9	1.7	.0	.0	26	.0	5.6
0	.0	.6	10.3	2.6	.0	.0	63	.4	13.1
-1	.0	1.3	16.5	1.9	.0	.0	92	.0	19.7
-2	.0	1.7	17.3	1.1	.0	.0	94	.2	19.9
-3	.2	1.3	9.0	.4	.0	.0	51	.2	10.7
-4	.2	2.6	5.4	.2	.0	.0	39	.0	8.4
-5	.4	2.1	1.7	.0	.0	.0	20	.2	4.1
-6	.0	1.5	.4	.0	.0	.0	9	.0	1.9
-7/-8	.2	.9	.0	.0	.0	.0	5	.0	1.1
-9/-10	.2	.0	.0	.0	.0	.0	1	.0	.2
-11/-13	.2	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	7		317		11			5	462
		56		79		3	467		
PCT	1.5	12.0	67.9	15.6	2.4	.6	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)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.8	.0	.0	.0	.0	.0	2.8
1-2	.0	4.8	.6	.0	.0	.0	5.4
3-4	.0	1.3	.6	.0	.0	.0	1.9
5-6	.0	1.1	.0	.0	.0	.0	1.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	7.2	1.1	.0	.0	.0	11.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.4	1.7	.0	.0	.0	.0	4.1
1-2	7.0	9.4	7.2	.0	.0	.0	23.7
3-4	.0	2.4	.9	.0	.0	.0	3.3
5-6	.0	.7	.0	.0	.0	.0	.7
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	9.4	14.3	8.1	.0	.0	.0	31.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	2.0	.0	.0	.0	.0	2.6
1-2	1.9	4.8	1.7	.0	.0	.0	8.3
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.4	6.9	1.7	.0	.0	.0	10.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.0	.0	.0	.0	.0	.2
1-2	.7	1.1	.2	.0	.0	.0	2.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	1.1	.2	.0	.0	.0	2.2

PERIOD: (OVER-ALL) 1963-1973 APRIL AREA 0007 SARAWAK

TABLE 18 (CONT) 3.6N 111.7E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	.0	.0	.0	.0	.0	1.3
1-2	.0	2.6	.0	.0	.0	.0	2.6
3-4	.0	.6	.6	.0	.0	.0	1.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	3.1	.6	.0	.0	.0	5.0

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	4.8	.9	.0	.0	.0	5.7
3-4	.0	.9	.2	.0	.0	.0	1.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.7	1.1	.0	.0	.0	6.9

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.5	.7	.0	.0	.0	.0	2.2
1-2	.0	3.3	.6	.0	.0	.0	3.9
3-4	.0	1.5	1.5	.0	.0	.0	3.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	5.6	2.0	.0	.0	.0	9.1

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.7	.0	.0	.0	.0	.9	
1-2	.7	.9	.0	.0	.0	.0	1.7	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.4	.0	.0	.0	.0	.4	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.9	2.0	.0	.0	.0	.0	3.0	80.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.9	4.9	.0	.0	.0	.0	36.8	
1-2	11.1	29.9	10.4	.0	.0	.0	51.4	
3-4	.0	6.3	3.5	.0	.0	.0	9.7	
5-6	.0	2.1	.0	.0	.0	.0	2.1	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	43.1	43.1	13.9	.0	.0	.0	100.0	144

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	12.9	34.1	8.0	1.9	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	155	2
6-7	.0	3.4	4.5	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	3
8-9	.0	.0	1.5	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	28.9	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	73	0
TOTAL	97	109	38	15	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	264	2
PCT	36.7	41.3	14.4	5.7	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1929-1972
(OVER-ALL) 1869-1972

AREA 0007 SARAWAK
3.5N 111.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	5.5	7.5	.0	.0	.0	.0	.0	13.0	.0	2.7	.0	.0	.0		.0	84.2
NE	2.1	2.6	.5	.0	.0	.0	.0	5.2	.0	8.3	.0	.0	.0		.0	86.5
E	2.5	.0	6.2	.0	.0	.0	.0	8.6	.0	.0	.0	.0	.0		.0	91.4
SE	2.6	4.2	.5	.0	.0	.0	.0	7.4	2.1	4.2	.0	.0	.0		.0	86.3
S	5.0	.7	1.4	.0	.0	.0	.0	7.1	2.9	1.4	.0	.0	.0		.0	88.6
SW	7.2	2.5	.3	.0	.0	.0	.0	10.0	2.5	2.5	.0	.0	.0		.0	86.3
W	8.4	3.8	1.3	.0	.0	.0	.0	13.5	1.7	5.5	.0	.0	.0		.0	81.0
NW	8.0	.4	.0	.0	.0	.0	.0	8.5	.0	6.7	.0	.0	.0		.0	84.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	2.7	.9	.0	.0	.0	.0	.0	3.6	.9	2.7	.0	.0	.0		.0	92.8
TOT PCT	4.9	2.2	.9	.0	.0	.0	.0	8.0	1.3	3.6	.0	.0	.0		.0	87.4
TOT OBS:	549															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	5.6	4.4	1.9	.0	.0	.0	.0	11.9	1.9	.6	.0	.0	.0		.0	85.6
06&09	2.5	2.3	.6	.0	.0	.0	.0	5.6	1.3	.6	.0	.0	.0		.0	92.3
12&15	7.6	1.4	.0	.0	.0	.0	.0	9.0	.7	5.5	.0	.0	.0		.0	85.5
18&21	4.5	.0	.9	.0	.0	.0	.0	5.5	.9	10.0	.0	.0	.0		.0	84.5
TOT PCT	5.0	2.3	.9	.0	.0	.0	.0	8.2	1.2	3.7	.0	.0	.0		.0	87.3
TOT OBS:	575															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	3.2	2.9	.3	.0	.0	.0		6.4	4.7	7.1	7.1	5.2	6.7	6.5	7.1	8.6	2.8
NE	1.7	5.4	.2	.0	.0	.0		7.3	5.8	7.1	5.4	9.5	5.8	10.7	5.4	4.7	.9
E	2.5	3.5	.5	.0	.0	.0		6.5	5.3	7.4	14.3	7.9	10.0	3.7	14.3	1.6	4.6
SE	3.1	5.5	.3	.0	.0	.0		8.9	5.4	10.3	12.5	10.2	5.8	3.8	1.6	11.2	15.7
S	4.3	8.0	1.0	.0	.0	.0		13.4	5.5	19.0	12.5	19.5	10.8	7.9	7.1	10.7	5.1
SW	4.6	10.7	1.1	.3	.0	.0		16.7	6.1	12.7	25.0	15.6	20.0	16.6	26.8	11.2	28.2
W	2.7	8.6	1.1	.1	.0	.0		12.6	6.6	9.2	14.3	11.0	19.2	17.0	14.3	8.9	13.0
NW	2.4	7.3	.2	.0	.0	.0		9.8	5.1	9.0	8.9	6.3	11.7	12.9	12.5	9.9	11.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	18.4							18.4	.0	18.1	.0	14.8	10.0	21.0	10.7	33.3	18.5
TOT OBS	308	373	35	3	0	0	719		4.6	155	28	155	60	143	28	96	54
TOT PCT	42.8	51.9	4.9	.4	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.7	1.7	.0	.0	.0		6.4	4.7	7.1	5.6	6.6	6.5
NE	4.6	2.7	.0	.0	.0		7.3	5.8	6.8	8.5	9.8	3.3
E	4.8	1.7	.0	.0	.0		6.5	5.3	8.5	8.5	5.4	2.7
SE	5.9	2.9	.0	.0	.0		8.9	5.4	10.7	9.0	3.5	12.8
S	9.1	4.1	.1	.0	.0		13.4	5.5	18.0	17.1	7.7	8.7
SW	11.3	5.0	.3	.1	.0		16.7	6.1	14.6	10.9	18.3	17.3
W	7.6	4.5	.5	.0	.0		12.6	6.6	10.0	13.3	16.5	10.3
NW	7.9	2.0	.0	.0	.0		9.8	5.1	9.0	7.8	12.9	10.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	18.4						18.4	.0	15.3	13.5	19.3	28.0
TOT OBS	534	177	7	1	0	719		4.6	183	215	171	150
TOT PCT	74.3	24.6	1.0	.1	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1929-1972
(OVER-ALL) 1869-1972

AREA 0007 SARAWAK
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	15.3	26.8	52.5	4.9	.5	.0	.0	4.7	100.0	183
06&09	13.5	24.2	54.4	7.4	.5	.0	.0	5.3	100.0	215
12&15	19.3	24.6	52.0	3.5	.6	.0	.0	4.4	100.0	171
18&21	28.0	22.0	47.3	2.7	.0	.0	.0	3.9	100.0	150
TOT	192	176	373	38	3	0	0	4.6		719
PCT	18.4	24.5	51.9	4.9	.4	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.6	1.8	3.8	.7		4.9
NE	1.1	3.7	3.4	.0		4.3
E	2.4	1.4	2.6	.6		4.1
SE	1.7	1.4	2.8	2.6		5.3
S	1.8	3.5	8.8	3.1		5.3
SW	1.4	3.6	5.0	3.1		5.3
W	2.0	.9	4.3	2.6		5.5
NW	1.5	3.1	.9	1.1		4.1
VAR	.0	.0	.0	.0		.0
CALM	6.1	9.8	5.1	4.4		4.2
TOT OBS	58	74	109	54	295	4.8
TOT PCT	19.7	25.1	36.9	18.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.0	.7	1.4	1.2	.0	.0	.0	.0	4.7	
.0	.3	.0	.0	.7	.5	.0	.0	.0	.0	6.7	
.0	.0	.0	.5	1.0	.0	.0	.0	.0	.0	5.4	
.0	.0	.3	.5	1.0	.0	.3	.0	.0	.0	6.4	
.0	.0	.0	.9	1.8	.3	.3	.0	.0	.3	13.5	
.0	.0	.0	.8	2.0	.8	.2	.0	.3	.0	8.9	
.0	.3	.0	1.2	1.5	.7	.2	.0	.0	.0	6.3	
.0	.1	.0	.1	.1	.2	.0	.0	.0	.0	6.2	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	2.4	1.0	1.0	.0	.0	.0	.0	16.9	
0	2	1	21	31	14	3	0	1	1	221	295
.0	.7	.3	7.1	10.5	4.7	1.0	.0	.3	.3	74.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) • OR >10	• OR >5	• OR >2	• OR >1	• OR >1/2	• OR >1/4	• OR >500YD	• OR >0
• OR >6500	.7	.7	.7	.7	.7	.7	.7	.7
• OR >5000	.7	.7	.7	.7	.7	.7	.7	.7
• OR >3500	1.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6
• OR >2000	5.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
• OR >1000	15.7	17.0	17.0	17.3	17.3	17.3	17.3	17.3
• OR >600	20.3	23.5	23.9	24.5	24.5	24.5	24.5	24.5
• OR >300	20.6	23.9	24.2	24.8	24.8	24.8	24.8	24.8
• OR >150	20.9	24.5	24.8	25.5	25.5	25.5	25.5	25.5
• OR > 0	20.9	24.5	24.8	25.5	25.5	25.5	25.5	25.5
TOTAL	64	75	76	78	78	78	78	78

TOTAL NUMBER OF OBS: 306

PCT FREQ NH <5/8: 74.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
6.5	15.2	21.7	15.2	13.2	4.8	7.9	6.2	9.9	.0	355

PERIOD: (PRIMARY) 1929-1972
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
< /2	PCP	.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	*	.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	.2	.0	.1	*	.0	.0	.0	.0	.0	.0	.4	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
	TOT %	.2	.0	.1	*	.0	.0	.0	.2	.0	.0	.5	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.3	.3	.2	.2	.0	.0	.0	.0	.9	
	TOT %	.0	.0	.3	.3	.2	.2	.0	.0	.0	.0	.9	
5<10	PCP	.2	.0	.2	.1	.4	1.2	.8	.8	.0	.4	4.0	
	NO PCP	.8	.6	1.0	2.2	2.3	4.5	2.3	3.0	.0	7.7	24.3	
	TOT %	1.0	.6	1.2	2.3	2.6	5.9	3.1	3.8	.0	8.0	28.3	
10+	PCP	.5	.5	.3	.5	.4	.3	.6	*	.0	.4	3.5	
	NO PCP	5.0	7.7	5.4	5.5	9.4	8.7	7.1	6.0	.0	11.9	66.6	
	TOT %	5.9	8.1	5.7	6.0	9.8	9.0	7.7	6.0	.0	12.2	70.1	
	TOT OBS												548
	TOT PCT	6.7	8.8	7.4	8.7	12.8	14.6	10.8	10.0	.0	20.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	*	.1	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.0	.1	*	.0	.0	.0	.2	.0		.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.0	.1	*	.0	.0	.0	.2	.0	.0	.5	
2<5	0-3	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.5	
	4-10	.0	.0	.0	.0	.0	.1	.0	.0	.0		.4	
	11-21	.0	.0	.0	.0	.0	.2	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.3	.3	.0	.3	.0	.0	.0	.0	1.1	
5<10	0-3	.7	.3	.4	1.8	1.3	2.2	.8	1.1	.0	7.9	16.4	
	4-10	.3	.4	.8	.5	1.3	2.9	1.5	2.7	.0		10.2	
	11-21	.0	.0	.0	.0	.1	.3	.5	.0	.0		.9	
	22+	.0	.0	.0	.0	0	.2	.2	.0	.0		.4	
	TOT %	1.0	.6	1.2	2.3	1.5	5.5	3.0	3.8	.0	7.9	27.9	
10+	0-3	2.8	1.9	1.9	1.5		1.4	1.8	1.3	.0	12.3	27.5	
	4-10	2.1	5.8	3.2	4.7	.6	6.5	5.2	4.4	.0		58.4	
	11-21	.4	.3	.7	.4	.8	.8	.7	.3	.0		4.3	
	22+	.0	.0	.0	.0	.0	.2	.0	.0	.0		.2	
	TOT %	5.4	7.9	5.7	6.7	10.0	8.8	7.7	5.9	.0	12.3	70.4	
	TOT OBS												560
	TOT PCT	6.5	8.6	7.3	9.3	12.9	14.6	10.8	9.8	.0	20.2	100.0	

PERIOD: (PRIMARY) 1929-1972
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	1.0	1.0	7.2	12.4	6.2	2.1	.0	.0	1.0	30.9	69.1	97
06E09	.0	1.0	.0	9.3	9.3	5.2	.0	.0	.0	.0	24.7	75.3	97
12E15	.0	.0	.0	2.5	8.9	1.3	1.3	.0	.0	.0	13.9	86.1	79
18E21	.0	.0	.0	6.7	10.0	3.3	.0	.0	1.7	.0	21.7	78.3	60
TOT	0	2	1	22	34	14	3	0	1	1	78	255	333
PCT	.0	.6	.3	6.6	10.2	4.2	.9	.0	.3	.3	23.4	76.6	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
00E03	.6	.0	.6	1.2	24.7	72.8	162
06E09	.0	.0	.6	1.8	28.0	69.5	164
12E15	.0	.0	.0	.7	26.4	73.0	148
18E21	.0	.0	.9	.0	32.1	67.0	112
TOT	1	0	3	6	161	415	586
PCT	.2	.0	.5	1.0	27.5	70.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <600YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	2.2	12.4	22.5	65.2	89
06E09	.0	1.1	11.5	16.1	72.4	87
12E15	.0	.0	2.7	12.2	85.1	74
18E21	.0	.0	7.1	16.1	76.8	56
TOT	0	3	27	52	227	306
PCT	.0	1.0	8.8	17.0	74.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.3	.3	.0	.0	.0	2	.6
90/94	.0	.0	.0	.3	1.3	.3	.3	.0	7	2.2
85/89	.0	.0	.0	.0	2.2	12.7	8.6	.3	75	23.8
80/84	.0	.0	.0	.0	.6	18.7	41.0	7.6	214	67.9
75/79	.0	.0	.0	.0	.0	.0	1.6	3.8	17	5.4
TOTAL	0	0	0	2	14	100	162	37	315	100.0
PCT	.0	.0	.0	.6	4.4	31.7	51.4	11.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0
	.0	.0	.0	.0	.2	.1	.9	.1	.0	1.0
	2.0	3.4	1.2	1.6	3.7	3.3	2.2	2.3	.0	4.1
	4.7	4.4	4.4	6.6	11.8	9.0	8.7	5.8	.0	12.4
	.3	.3	.0	.3	2.1	.4	.3	.3	.0	1.3
	7.0	8.2	6.0	8.5	17.9	13.1	12.1	8.5	.0	18.7

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	89	88	86	83	77	75	75	82.2	181
06E09	97	95	91	85	79	76	75	84.9	205
12E15	87	86	86	83	79	78	77	82.8	167
18E21	86	85	85	82	78	75	73	81.9	154
TOT	97	91	88	83	78	76	73	83.1	707

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	.0	21.6	53.6	24.7	85	97
06E09	.0	2.2	12.0	38.0	43.5	4.3	78	92
12E15	.0	.0	2.4	38.6	49.4	9.6	80	83
18E21	.0	.0	3.2	34.9	57.1	4.8	81	63
TOT	0	2	15	110	149	39	81	335

PERIOD: (PRIMARY) 1929-1972
(OVER-ALL) 1869-1972

AREA 0007 SARAWAK
3.5N 111.6E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	.0	.2	1	.0	.2
7/8	.0	.0	.0	.0	.2	.0	1	.0	.2
6	.0	.0	.0	.2	.6	.0	4	.0	.8
5	.0	.0	.0	.0	.6	.2	4	.0	.8
4	.0	.0	.0	1.6	.6	.0	11	.0	2.2
3	.0	.0	.6	.8	1.6	.0	15	.0	3.0
2	.0	.0	1.0	2.6	.2	.0	19	.0	3.8
1	.0	.0	2.2	4.4	.2	.0	34	.0	6.8
0	.0	.6	6.0	4.6	.0	.0	56	.0	11.3
-1	.2	.6	12.3	4.0	.0	.0	86	.0	17.3
-2	.0	.4	13.9	2.8	.0	.0	85	.0	17.1
-3	.0	1.0	8.2	.4	.0	.0	48	.0	9.7
-4	.0	1.8	8.5	.0	.0	.0	51	.0	10.3
-5	.0	3.4	1.2	.0	.0	.0	23	.0	4.6
-6	.4	3.2	.8	.0	.0	.0	22	.0	4.4
-7/-8	.6	4.8	.8	.0	.0	.0	31	.0	6.2
-9/-10	.4	.8	.0	.0	.0	.0	6	.0	1.2
TOTAL	8	83	277	107	20	2	497	0	497
PCT	1.6	16.7	55.7	21.5	4.0	.4	100.0		100.0

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.1	.0	.0	.0	.0	.0	2.1
1-2	.0	1.0	.8	.0	.0	.0	1.8
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.1	1.0	.8	.0	.0	.0	3.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.0	.0	.0	.0	1.0
1-2	.9	4.4	1.3	.0	.0	.0	6.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	5.5	1.3	.0	.0	.0	7.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	.0	.0	.0	.0	.0	1.0
1-2	.8	2.9	.0	.0	.0	.0	3.8
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.8	2.9	.0	.0	.0	.0	4.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.4	1.3	.0	.0	.0	4.7
3-4	.0	2.1	.0	.0	.0	.0	2.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.5	1.3	.0	.0	.0	6.8

PERIOD: (OVER-ALL) 1963-1972

TABLE 18 (CONT)

AREA 0007 SARAWAK
3.5N 111.6E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	1.0	.0	.0	.0	.0	2.1
1-2	1.8	7.6	2.6	.0	.0	.0	12.0
3-4	.0	2.1	.8	.0	.0	.0	2.9
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	1.0	.0	.0	.0	.0	1.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.9	11.7	3.4	.0	.0	.0	18.0

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	1.3	.0	.0	.0	.0	2.3
1-2	1.3	8.3	1.6	.0	.0	.0	11.2
3-4	.0	3.4	.3	1.0	.0	.0	4.7
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.3	13.0	1.8	1.0	.0	.0	18.2

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.9	.0	.0	.0	.0	3.9
1-2	.0	3.6	1.6	.0	.0	.0	5.2
3-4	.0	1.8	2.1	.0	.0	.0	3.9
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	9.4	3.6	.0	.0	.0	13.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.0	.0	.0	.0	.0	1.0	
1-2	.0	3.1	.3	.0	.0	.0	3.4	
3-4	.0	1.0	.0	.0	.0	.0	1.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	5.2	.3	.0	.0	.0	5.5	77.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	29.6	8.2	.0	.0	.0	.0	37.8	
1-2	4.1	33.7	9.2	.0	.0	.0	46.9	
3-4	.0	10.2	3.1	1.0	.0	.0	14.3	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	1.0	.0	.0	.0	.0	1.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	33.7	53.1	12.2	1.0	.0	.0	100.0	98

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	11.3	32.1	10.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	122	2
6-7	.0	1.4	3.6	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	3
8-9	.5	.0	.5	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	4
10-11	.0	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	3
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	30.8	3.6	.5	.9	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	80	0
TOTAL	94	83	33	7	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	221	1
PCT	42.5	37.6	14.9	3.2	1.4	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1928-1972
(OVER-ALL) 1857-1972

AREA 0097 SARAWAK
3.7N 111.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	4.6	2.8	.0	.0	.0	.0	.0	7.4	.0	7.4	3.7	.0	.0	.0	.0	81.5
NE	2.7	.0	.0	.0	.0	.0	.0	2.7	5.3	5.3	5.3	.0	1.3	.0	.0	80.0
E	4.3	6.8	6.8	.0	.0	.0	.0	17.9	.0	.0	.0	.0	9.4	.0	.0	72.6
SE	.5	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	99.5
S	9.2	2.4	.0	.0	.0	.0	.0	11.6	1.2	6.7	.0	.0	.0	.0	.0	80.4
SW	10.0	1.2	1.4	.0	.0	.0	.0	12.6	2.4	1.2	.0	.0	.0	.0	.0	84.5
W	7.5	4.0	3.5	.0	.0	.0	.0	15.1	3.5	2.5	.0	.0	1.0	.0	.0	77.9
NW	7.9	1.2	6.1	.0	.0	.0	.0	15.2	2.4	5.5	.0	.0	.0	.0	.0	76.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.3	.8	.0	.0	.0	.0	.0	3.1	1.6	2.3	.0	.0	.8	.0	.0	92.2
TOT PCT	6.3	1.9	1.6	.0	.0	.0	.0	9.8	1.9	2.9	.3	.0	.8	.0	.0	84.4
TOT OBS:	623															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	8.2	3.8	1.1	.0	.0	.0	.0	13.2	1.6	.5	.5	.0	1.6	.0	.0	82.4
06&09	4.2	1.2	1.8	.0	.0	.0	.0	7.2	2.4	1.2	.0	.0	.0	.0	.0	89.2
12&15	5.1	.0	.6	.0	.0	.0	.0	5.7	1.9	3.8	.0	.0	.6	.0	.0	88.6
18&21	5.8	1.9	2.6	.0	.0	.0	.0	10.3	1.3	5.8	.6	.0	1.9	.0	.0	80.0
TOT PCT	5.9	1.8	1.5	.0	.0	.0	.0	9.2	1.8	2.7	.3	.0	1.1	.0	.0	85.0
TOT OBS:	662															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.3	2.1	.6	.0	.0	.0		4.0	5.7	3.8	.0	2.1	3.1	5.3	2.9	7.3	3.1
NE	1.1	1.8	.0	.0	.0	.0		2.9	4.2	1.8	.0	2.6	.0	3.0	4.3	3.3	7.5
E	1.0	2.9	.1	.0	.0	.0		4.0	5.5	5.3	11.4	3.0	5.4	1.2	1.4	3.3	6.3
SE	2.2	5.5	.4	.0	.0	.0		8.2	5.6	11.0	18.9	10.6	12.3	3.6	14.3	2.5	4.4
S	2.5	9.2	2.2	.1	.0	.0		14.0	7.4	21.2	18.2	22.4	7.7	4.6	7.1	10.2	13.1
SW	3.9	13.4	5.8	.9	.0	.0		24.1	8.6	22.2	43.2	21.5	28.8	24.5	20.0	24.2	21.9
W	3.9	7.9	4.2	.6	.0	.0		16.5	8.1	13.3	5.3	16.9	21.2	21.7	25.7	15.4	11.9
NW	1.7	3.9	.3	.4	.0	.0		6.3	6.4	3.4	.0	3.9	12.3	12.9	1.4	5.6	5.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	20.0							20.0	.0	18.0	3.0	16.9	9.2	23.2	22.9	28.3	26.3
TOT OBS	303	375	110	16	0	0	804		5.9	178	33	142	65	151	35	120	80
TOT PCT	37.7	46.6	13.7	2.0	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.3	.5	.2	.0	.0		4.0	5.7	3.2	2.4	4.8	5.6
NE	2.3	.4	.0	.0	.0		2.9	4.2	1.5	1.9	3.2	5.0
E	2.8	1.2	.0	.0	.0		4.0	5.5	6.3	3.7	1.2	4.5
SE	5.4	2.7	.0	.0	.0		8.2	5.6	12.2	11.1	5.6	3.3
S	7.2	6.3	.5	.1	.0		14.0	7.4	20.7	17.8	5.1	11.4
SW	10.3	11.4	2.1	.2	.0		24.1	8.6	25.5	23.8	23.7	23.3
W	8.7	6.2	1.6	.1	.0		16.5	8.1	12.1	18.2	22.4	14.0
NW	4.3	1.6	.4	.0	.0		6.3	6.4	2.8	6.5	10.8	5.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	20.0						20.0	.0	15.6	14.5	23.1	27.5
TOT OBS	518	244	39	3	0	804		5.9	211	207	186	200
TOT PCT	64.4	30.3	4.9	.4	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	15.8	17.1	46.0	18.5	2.8	.0	.0	6.8	100.0	211
06&09	14.5	14.5	55.6	14.0	1.4	.0	.0	6.4	100.0	207
12&15	23.1	21.0	44.1	9.1	2.7	.0	.0	5.2	100.0	186
18&21	27.5	18.5	40.5	12.5	1.0	.0	.0	5.0	100.0	200
TOT	161	142	375	110	16	0	0	5.9		804
PCT	20.0	17.7	46.6	13.7	2.0	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.0	1.0	1.2	1.5		5.2
NE	.5	1.3	.7	.7		4.5
E	1.2	.6	2.7	.8		5.2
SE	1.1	1.6	3.6	.6		4.9
S	.6	4.1	5.2	3.0		5.4
SW	3.2	3.3	9.4	4.1		5.5
W	4.1	3.2	5.8	4.3		5.1
NW	1.5	1.2	2.0	.8		4.4
VAR	.0	.0	.0	.0		.0
CALM	5.2	6.1	8.4	2.6		4.4
TOT OBS	63	77	134	70	344	5.0
TOT PCT	18.3	22.4	39.0	20.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.7	.7	.2	.3	.0	.0	.0	2.9	
NE	.0	.0	.0	.1	.1	.3	.0	.0	.0	.0	2.7	
E	.3	.0	.0	.0	.7	.6	.0	.0	.0	.0	3.6	
SE	.0	.0	.0	.0	.5	.7	.0	.0	.0	.0	5.7	
S	.0	.0	.0	.3	.5	.7	1.7	.0	.0	.0	9.5	
SW	.3	.0	.0	.7	3.6	1.3	.3	.6	.0	.1	15.9	
W	.3	.0	.0	2.0	1.9	.2	.3	.0	.3	.5	11.9	
NW	.0	.0	.0	.4	.5	.1	.0	.3	.0	.0	4.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.6	2.0	.6	.9	.0	.3	.3	17.7	
TOT OBS	3	0	0	16	36	16	12	1	2	3	255	344
TOT PCT	.9	.0	.0	4.7	10.5	4.7	3.5	.3	.6	.9	74.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) • OR >10	• OR >5	• OR >2	• OR >1	• OR >1/2	• OR >1/4	• OR >0YD	• OR >0
• OR >6500	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
• OR >5000	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
• OR >3500	3.7	5.2	5.2	5.2	5.2	5.2	5.2	5.2
• OR >2000	8.4	10.2	10.2	10.2	10.2	10.5	10.5	10.5
• OR >1000	16.0	19.1	19.6	19.6	19.6	19.9	19.9	19.9
• OR >600	18.6	22.5	23.3	23.3	23.6	24.1	24.1	24.1
• OR >300	18.6	22.5	23.3	23.3	23.6	24.1	24.1	24.1
• OR >150	18.6	22.5	23.3	23.3	23.6	24.1	24.1	24.1
• OR > 0	19.1	23.0	24.1	24.1	24.3	24.9	24.9	24.9
TOTAL	73	88	92	92	93	95	95	95

TOTAL NUMBER OF OBS: 382

PCT FREQ NH <5/8: 75.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
8.3	15.4	20.6	18.3	13.0	6.7	4.9	6.3	7.8	.7	447

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	.5	
	TOT %	.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	.5	
1/2<1	PCP	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	TOT %	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	.3	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
2<5	PCP	.1	.0	.0	.0	.1	.4	.6	*	.0	.0	1.3	
	NO PCP	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
	TOT %	.1	.0	.0	.0	.1	.7	.6	*	.0	.0	1.6	
5<10	PCP	.2	.1	.1	.0	.6	2.1	1.1	.4	.0	.5	5.1	
	NO PCP	.6	.9	.8	3.4	3.1	3.7	2.6	1.6	.0	7.7	24.4	
	TOT %	.8	1.0	.8	3.4	3.7	5.8	3.8	2.0	.0	8.2	29.5	
10+	PCP	.0	.0	.0	*	.8	.4	.6	.5	.0	.2	3.2	
	NO PCP	3.3	2.0	2.8	5.0	8.3	16.3	10.9	4.0	.0	12.0	64.7	
	TOT %	3.3	2.0	3.4	5.1	9.1	16.8	11.6	4.5	.0	12.2	67.9	
	TOT OBS												623
	TOT PCT	4.3	3.0	4.7	8.5	13.1	23.3	16.0	6.6	.0	20.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.4	.1	.0	.0	.0	.0	.0		.5	
	11-21	.2	.0	.0	.0	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.0	.4	.1	.0	.0	.0	.0	.0	.0	.8	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.2	.0	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.2	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
2<5	0-3	.0	.0	.0	.0	.0	*	.1	.0	.0	.0	.2	
	4-10	.0	.0	.0	.2	.0	.4	.2	.0	.0		.8	
	11-21	.1	.0	.0	.0	.0	*	.3	*	.0		.5	
	22+	.0	.0	.0	.0	.1	.2	.0	.0	.0		.3	
	TOT %	.1	.0	.0	.2	.1	.7	.6	*	.0	.0	1.7	
5<10	0-3	.2	.3	.4	1.8	1.0	.8	.2	.2	.0	8.0	12.6	
	4-10	.2	.7	.5	1.6	1.9	2.4	1.4	1.2	.0		9.8	
	11-21	.4	.0	.0	.0	.9	1.9	1.6	.1	.0		4.8	
	22+	.0	.0	.0	.0	.0	.6	.5	.5	.0		1.6	
	TOT %	.7	1.0	.8	3.3	3.7	5.7	3.7	2.0	.0	8.0	28.9	
10+	0-3	.7	.8	.7	.5	1.2	2.3	3.2	1.5	.0	12.8	23.7	
	4-10	2.4	1.2	2.5	3.9	6.5	10.1	6.0	2.7	.0		35.3	
	11-21	.1	.0	.0	.5	1.6	4.2	2.1	.2	.0		8.7	
	22+	.0	.0	.0	.0	.1	.3	.3	.0	.0		.6	
	TOT %	3.2	2.0	3.3	4.9	9.4	16.9	11.5	4.4	.0	12.8	68.3	
	TOT OBS												641
	TOT PCT	4.2	2.9	4.6	8.5	13.3	23.3	15.8	6.4	.0	20.9	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	.0	6.1	11.3	4.3	3.5	.0	.0	1.7	27.0	73.0	115
06E09	.0	.0	.0	4.3	6.9	6.0	3.4	.0	.0	.9	21.6	78.4	116
12E15	.0	.0	.0	2.1	6.3	3.2	4.2	.0	.0	1.1	16.8	83.2	95
18E21	3.1	.0	.0	2.0	9.2	5.1	1.0	1.0	2.0	.0	23.5	76.5	98
TOT	3	0	0	16	36	20	13	1	2	4	95	329	424
PCT	.7	.0	.0	3.8	8.5	4.7	3.1	.2	.5	.9	22.4	77.6	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
00E03	.5	.0	.0	2.7	27.8	69.0	187
06E09	.6	.6	.0	.0	22.9	75.9	170
12E15	.8	.0	.0	2.5	30.0	66.9	160
18E21	.6	.6	.6	1.2	28.2	68.7	163
TOT	3	2	1	11	185	477	680
PCT	.6	.3	.1	1.6	27.2	70.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50VSBY	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	.9	7.5	21.5	71.0	107
06E09	.0	1.0	4.9	19.4	75.7	103
12E15	.0	1.2	4.8	14.3	81.0	84
18E21	3.4	4.5	6.8	20.5	72.7	88
TOT	3	7	23	73	286	382
PCT	.8	1.8	6.0	19.1	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 OBS	PCT FREQ
90/94	.0	.0	.0	.2	.9	.5	.5	.0	9	2.1
85/89	.0	.0	.0	.0	2.1	8.1	7.2	1.4	81	18.8
80/84	.0	.0	.0	.0	1.4	21.8	36.0	7.9	289	67.1
75/79	.0	.0	.0	.0	.0	.2	4.4	7.0	50	11.6
70/74	.0	.0	.0	.0	.0	.0	.2	.2	2	.5
TOTAL	0	0	0	1	19	132	208	71	431	100.0
PCT	.0	.0	.0	.2	4.4	30.6	48.3	16.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.2	.2	.3	.3	.3	.1	.0	.0	.5
	1.3	.5	1.2	1.0	2.0	4.8	3.0	1.3	.0	3.7
	3.2	1.5	3.2	2.8	9.5	18.4	10.1	4.9	.0	13.5
	.5	.2	.5	1.0	2.8	2.9	2.3	.5	.0	.9
	.0	.0	.0	.0	.2	.1	.1	.0	.0	.0
	5.0	2.5	5.0	5.3	14.8	26.5	15.6	6.7	.0	18.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	93	90	87	82	76	74	73	82.0	218
06E09	94	93	90	85	79	77	73	84.5	209
12E15	90	88	86	83	79	77	77	82.8	194
18E21	88	86	85	82	77	76	73	81.9	210
TOT	94	90	88	83	77	75	73	82.8	831

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	.8	24.2	48.4	26.6	84	128
06E09	.0	.9	13.4	38.6	40.2	6.9	79	112
12E15	.0	.0	3.5	32.2	47.8	16.5	82	119
18E21	.0	.0	.0	29.6	53.0	17.4	83	115
TOT	0	1	20	143	223	83	82	470

JUNE

PERIOD: (PRIMARY) 1928-1972
(OVER-ALL) 1857-1972

AREA 0007 SARAWAK
3.7N 111.8E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	NO FOG
9/10	.0	.0	.0	.2	.3	.2	4	.0	.7
7/8	.0	.0	.0	.8	.5	.5	11	.0	1.8
6	.0	.0	.0	1.0	.3	.0	8	.0	1.3
5	.0	.0	.3	1.0	.8	.0	13	.0	2.1
4	.0	.0	.7	1.8	.8	.0	20	.0	3.3
3	.0	.0	1.8	1.5	.7	.0	24	.0	3.9
2	.0	.0	2.0	1.6	.3	.0	24	.0	3.9
1	.0	.3	3.4	2.6	.0	.0	39	.0	6.4
0	.0	1.8	7.0	3.9	.2	.0	79	.0	12.9
-1	.0	2.4	9.6	3.3	.2	.0	95	.0	15.5
-2	.0	2.3	12.6	1.6	.0	.0	101	.0	16.5
-3	.2	1.3	8.3	.8	.0	.0	65	.0	10.6
-4	.2	3.1	5.5	.0	.0	.0	54	.0	8.8
-5	.3	1.6	3.3	.3	.0	.0	34	.2	5.4
-6	.3	2.0	.5	.0	.0	.0	17	.0	2.8
-7/-8	.5	2.1	.7	.0	.0	.0	20	.0	3.3
-9/-10	.0	.5	.0	.0	.0	.0	3	.0	.5
-11/-13	.2	.2	.0	.0	.0	.0	2	.0	.3
TOTAL	10	108	341	125	25	4	613	1	612
PCT	1.6	17.6	55.6	20.4	4.1	.7	100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.6	.0	.0	.0	.0	1.6
1-2	.0	2.2	.0	.0	.0	.0	2.2
3-4	.0	.0	.6	.0	.0	.0	.6
5-6	.0	.0	.6	.0	.0	.0	.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.8	1.2	.0	.0	.0	5.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	1.6	.0	.0	.0	.0	1.6
1-2	1.0	.8	.0	.0	.0	.0	1.8
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	2.4	.0	.0	.0	.0	3.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.6	.8	.0	.0	.0	.0	2.4
1-2	.6	.0	.0	.0	.0	.0	.6
3-4	.0	1.6	.0	.0	.0	.0	1.6
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.2	2.4	.0	.0	.0	.0	4.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	.0	.0	.0	.0	.4
1-2	.8	1.8	.0	.0	.0	.0	2.6
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	2.0	.0	.0	.0	.0	3.0

PERIOD: (OVER-ALL) 1963-1972 JUNE AREA 0007 SARAWAK

TABLE 18 (CONT) 3.7N 111.8E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.4	.0	.0	.0	.0	2.0
1-2	.0	8.8	1.6	.0	.0	.0	10.4
3-4	.0	.6	1.6	.0	.0	.0	2.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	10.8	3.2	.0	.0	.0	14.6

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	.2	.0	.0	.0	.0	1.0
1-2	.2	13.2	4.2	.0	.0	.0	17.6
3-4	.0	3.0	4.0	.0	.0	.0	7.0
5-6	.0	.0	.8	.0	.0	.0	.8
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	16.4	9.0	.0	.0	.0	26.4

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.4	.5	.0	.0	.0	.0	3.0
1-2	1.4	7.2	.6	.0	.0	.0	9.2
3-4	.0	1.2	2.4	.0	.0	.0	3.6
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.8	9.0	3.0	.0	.0	.0	15.8

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.6	.0	.0	.0	.0	.0	1.6	
1-2	.8	1.2	.0	.0	.0	.0	2.0	
3-4	.0	.0	1.0	.0	.0	.0	1.0	
5-6	.0	.0	.2	.0	.0	.0	.2	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.4	1.2	1.2	.0	.0	.0	4.8	77.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	31.8	6.2	.0	.0	.0	.0	38.0	
1-2	4.7	34.1	6.2	.0	.0	.0	45.0	
3-4	.0	6.2	9.3	.0	.0	.0	15.5	
5-6	.0	.0	1.6	.0	.0	.0	1.6	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	36.4	46.5	17.1	.0	.0	.0	100.0	129

PERIOD: (OVER-ALL) 1949-1972 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	10.9	27.3	12.4	2.9	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	148	2
6-7	.0	5.5	6.9	4.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	47	3
8-9	.0	.0	.4	1.1	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	5
10-11	.0	.0	.0	.4	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	7
12-13	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	3
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	21.1	2.2	1.1	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	69	0
TOTAL	88	96	59	25	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	275	2
PCT	32.0	34.9	21.5	9.1	1.8	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1928-1972
(OVER-ALL) 1857-1972

AREA 0007 SARAWAK
3.6N 111.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	3.[illegible]	2.6	.0	.0	.0	.0	.0	6.0	6.0	14.5	.0	.0	.0		.0	76.9
NE	13.6	.8	.0	.0	.0	.0	.0	14.4	.0	.8	.0	.0	.0		.0	84.7
E	7.0	.0	.0	.0	.0	.0	.0	7.0	.0	.0	.0	.0	.0		.0	93.0
SE	3.9	.0	5.2	.0	.0	.0	.0	9.1	5.2	.0	.0	.0	.0		.0	85.7
S	1.4	1.1	1.4	.0	.0	.0	.0	3.9	1.4	2.6	.0	.0	1.4		.0	91.8
SW	5.0	2.4	.0	.0	.0	.0	.0	7.5	3.0	3.5	.0	.0	.0		.0	86.0
W	3.4	5.9	1.6	.0	.0	.0	.0	12.9	3.5	6.3	.0	.0	.0		.0	77.2
NW	3.4	3.4	.8	.0	.0	.0	.0	7.6	5.1	10.2	.0	.0	.0		.0	77.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	2.7	.0	.0	.0	.0	.0	2.7	.0	4.4	.0	.0	.9		.0	92.0
TOT PCT	4.0	2.7	.8	.0	.0	.0	.0	7.5	2.5	4.5	.0	.0	.3		.0	85.5
TOT OBS:	602															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	4.1	4.1	.6	.0	.0	.0	.0	8.8	4.7	2.4	.0	.0	.6		.0	84.7
06&09	3.1	3.1	.6	.0	.0	.0	.0	6.9	1.3	.0	.0	.0	.0		.0	91.8
12&15	3.6	.6	1.2	.0	.0	.0	.0	5.5	1.2	0.7	.0	.0	.0		.0	86.7
18&21	4.3	2.2	.7	.0	.0	.0	.0	7.2	2.2	9.4	.0	.0	.7		.0	80.4
TOT PCT	3.8	2.5	.8	.0	.0	.0	.0	7.1	2.4	4.4	.0	.0	.3		.0	86.1
TOT OBS:	532															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.9	2.0	.7	.0	.0	.0		4.5	5.7	4.1	2.5	4.7	4.0	6.0	5.2	4.5	3.5
NE	1.4	2.8	.1	.0	.0	.0		4.4	5.0	3.1	5.0	2.9	2.4	9.3	4.2	4.0	4.2
E	.7	2.1	.0	.0	.0	.0		2.8	5.1	3.0	3.1	3.8	1.6	1.9	4.2	2.7	2.8
SE	1.5	3.5	.7	.0	.0	.0		5.8	6.1	11.0	8.1	4.7	3.2	2.5	2.1	3.7	9.5
S	2.6	8.7	1.6	.1	.0	.0		13.1	6.9	17.8	11.3	19.2	14.5	9.2	6.3	7.7	10.9
SW	5.4	19.0	4.9	1.0	.0	.0		30.4	7.9	27.6	33.1	34.9	35.5	25.9	29.7	28.5	33.8
W	2.5	10.6	3.6	.7	.0	.0		17.2	8.8	12.5	16.9	11.2	17.7	20.4	29.2	21.0	19.0
NW	1.3	2.4	.9	.0	.0	.0		4.6	6.7	1.8	.0	5.0	4.8	9.0	8.9	4.2	.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	17.2							17.2	.0	19.1	20.0	13.7	16.1	16.9	10.4	23.8	15.5
TOT OBS	261	386	94	14	0	0	755		6.1	152	40	139	62	142	48	101	71
TOT PCT	34.6	51.1	12.5	1.9	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.9	1.5	.1	.0	.0		4.5	5.7	3.6	4.5	5.8	4.1
NE	3.3	1.1	.0	.0	.0		4.4	5.0	3.5	2.7	7.2	4.1
E	1.5	1.4	.0	.0	.0		2.8	6.1	3.0	3.1	2.5	2.6
SE	3.7	1.9	.1	.0	.0		5.8	6.1	10.4	4.2	2.4	6.1
S	7.6	4.9	.6	.0	.0		13.1	6.9	16.4	17.8	8.4	9.0
SW	16.2	11.5	2.4	.3	.0		30.4	7.9	28.8	39.1	26.8	30.7
W	7.1	7.9	2.1	.1	.0		17.2	8.8	13.4	13.2	32.6	20.2
NW	2.5	1.9	.2	.0	.0		4.6	6.7	1.4	5.0	8.9	2.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	17.2						17.2	.0	19.3	14.4	15.3	20.3
TOT OBS	469	242	41	3	0	755		6.1	192	201	190	172
TOT PCT	62.1	32.1	5.4	.4	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	19.3	17.7	46.9	15.1	1.0	.0	.0	6.0	100.0	192
06&09	14.4	16.4	50.2	15.9	3.0	.0	.0	6.9	100.0	201
12&15	15.3	20.5	54.2	7.4	2.6	.0	.0	5.8	100.0	190
18&21	20.3	14.5	53.5	11.0	.6	.0	.0	5.7	100.0	172
TOT	130	131	386	94	14	0	0	6.1		755
PCT	17.2	17.4	51.1	12.5	1.9	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.2	1.7	.9	.9		4.2
NE	.7	1.1	2.0	.7		5.0
E	.5	.9	2.3	.5		5.0
SE	.2	.9	3.1	1.7		6.1
S	2.1	2.5	6.0	.6		4.7
SW	3.7	4.7	9.7	10.5		5.7
W	2.3	2.7	6.8	6.1		5.7
NW	.3	.8	1.2	1.1		5.5
VAR	.0	.0	.0	.0		.0
CALM	5.3	6.2	6.2	1.9		4.1
TOT OBS	53	69	123	77	322	5.2
TOT PCT	16.5	21.4	38.2	23.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.9	.3	.0	.0	.0	.0	3.5	
NE	.0	.0	.0	.3	1.0	.2	.0	.0	.0	.0	3.0	
E	.0	.0	.0	.0	.8	.5	.0	.0	.0	.0	3.0	
SE	.0	.0	.6	.0	.5	.7	.0	.0	.0	.3	3.7	
S	.0	.0	.2	.9	1.1	1.6	.0	.0	.0	.3	7.1	
SW	.6	.3	.2	1.6	3.6	1.9	1.6	1.2	.0	.3	17.3	
W	1.6	.0	.2	1.2	2.6	1.6	.0	.3	.0	.3	10.1	
NW	.0	.0	.3	.0	.3	.2	.0	.0	.0	.0	2.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.3	1.6	.6	.0	.0	.0	.0	17.1	
TOT OBS	7	1	5	14	40	24	5	4	0	4	217	322
TOT PCT	2.2	.3	1.6	4.3	12.4	7.5	1.6	1.6	.0	1.2	67.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) • OR >10	• OR >5	• OR >2	• OR >1	• OR >1/2	• OR >1/4	• OR >5CYD	• OR >0
• OR >6500	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
• OR >5000	2.9	3.8	3.8	3.8	3.8	3.8	3.8	3.8
• OR >3500	5.0	5.8	5.8	5.8	5.8	5.8	5.8	5.8
• OR >2000	11.4	12.8	13.1	13.4	13.4	13.4	13.4	13.4
• OR >1000	21.0	24.2	25.1	25.4	25.4	25.4	25.4	25.4
• OR >600	23.6	28.3	29.2	29.4	29.4	29.4	29.4	29.4
• OR >300	23.9	29.4	30.6	30.9	30.9	30.9	30.9	30.9
• OR >150	23.9	29.7	30.9	31.2	31.2	31.2	31.2	31.2
• OR > 0	23.9	30.0	32.1	32.9	32.9	32.9	33.2	33.2
TOTAL	82	103	110	113	113	113	114	114

TOTAL NUMBER OF OBS: 343 PCT FREQ NH <5/8: 66.8

TABLE .

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
10.6	14.1	18.1	13.9	9.3	7.1	9.3	8.3	7.6	1.8	397

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	PCP	.0	.0	.0	.0	.0	*	.4	*	.0	.0	.5	
1<2	NO PCP	.1	.0	.0	.0	.0	.2	.0	*	.0	.0	.3	
	TOT %	.1	.0	.0	.0	.0	.2	.4	.1	.0	.0	.8	
	PCP	.0	.0	.0	.0	.0	.3	.4	.2	.0	.0	.8	
2<5	NO PCP	.2	.0	.0	.3	.2	.5	.1	*	.0	.2	1.5	
	TOT %	.2	.0	.0	.3	.2	.7	.5	.2	.0	.2	2.3	
	PCP	.2	.5	.1	.6	.0	1.1	1.1	.0	.0	.3	3.8	
5<10	NO PCP	1.1	1.5	.8	1.5	3.4	8.1	5.4	2.0	.0	6.8	30.6	
	TOT %	1.2	2.0	.9	2.1	3.4	9.2	6.5	2.0	.0	7.1	34.4	
	PCP	.1	.2	.2	.0	.3	.7	.4	.2	.0	.2	2.2	
10+	NO PCP	3.2	2.7	2.5	4.3	7.6	16.4	9.9	2.5	.0	11.3	60.1	
	TOT %	3.3	2.9	2.7	4.0	7.9	17.1	10.3	2.7	.0	11.5	62.3	
	TOT OBS												602
	TOT PCT	4.9	4.9	3.6	6.4	11.7	27.2	17.7	4.9	.0	18.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.2	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.2	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.0	.0	.0	.1	*	.0		.2	
	11-21	.1	.0	.0	.0	.0	.2	.3	*	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.0	.0	.0	.0	.2	.4	.1	.0	.0	.8	
	0-3	.2	.0	.0	.0	.0	.3	.1	*	.0	.2	.8	
2<5	4-10	.0	.0	.0	.3	.2	.5	.2	.2	.0		1.3	
	11-21	.0	.0	.0	.0	.0	.1	.2	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.0	.0	.3	.2	.9	.5	.2	.0	.2	2.4	
	0-3	.2	.7	.3	.8	.9	2.5	1.0	.6	.0	6.8	13.7	
5<10	4-10	1.0	1.2	.6	1.3	2.3	4.2	3.2	.8	.0		14.4	
	11-21	.2	.0	.0	.2	.2	1.3	1.1	.5	.0		3.5	
	22+	.0	.0	.0	.0	.0	.9	.9	.0	.0		1.7	
	TOT %	1.3	1.9	.9	2.0	3.4	9.0	6.2	1.9	.0	6.8	33.3	
	0-3	1.3	.8	.6	.6	1.7	1.6	1.4	.8	.0	11.1	19.6	
10+	4-10	1.3	2.2	2.0	2.6	5.8	12.1	7.8	1.3	.0		34.9	
	11-21	.6	.2	.0	.7	1.1	3.4	1.9	.6	.0		8.4	
	22+	.0	.0	.0	.0	.0	.2	.0	.0	.0		.3	
	TOT %	3.2	3.1	2.5	3.9	8.5	17.4	10.9	2.7	.0	11.1	63.2	
	TOT OBS												633
	TOT PCT	4.8	5.0	3.4	6.2	12.2	27.6	18.1	4.8	.0	18.0	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	1.9	.0	2.9	1.9	15.4	6.7	2.9	2.9	.0	1.0	35.6	64.4	104
06E09	2.7	.0	.9	7.2	16.2	9.0	1.8	1.8	.0	.0	39.6	60.4	111
12E15	3.2	.0	1.2	2.4	4.7	5.9	1.2	3.5	.0	2.4	22.4	77.6	85
18E21	1.3	1.3	.0	2.6	3.9	5.3	1.3	1.3	.0	1.3	18.4	81.6	76
TOT	7	1	5	14	41	26	7	9	0	4	114	292	376
PCT	1.9	.3	1.3	3.7	10.9	6.9	1.9	2.4	.0	1.1	30.3	69.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.0	.6	.0	.6	28.8	70.1	177
06E09	.6	.0	.6	3.0	26.6	69.2	169
12E15	.6	.0	1.2	2.4	39.4	56.5	170
18E21	.0	.0	2.0	3.4	34.0	60.5	147
TOT	2	1	6	15	213	426	663
PCT	.3	.2	.9	2.3	32.1	64.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <30YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	2.1	5.3	7.4	31.6	61.1	95
06E09	2.9	3.9	13.7	30.4	55.9	102
12E15	1.3	2.6	10.4	16.9	72.7	77
18E21	1.4	2.9	7.2	13.0	79.7	69
TOT	7	13	34	83	226	343
PCT	2.0	3.8	9.9	24.2	65.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	1.2	.7	.0	.0	8	1.9
85/89	.0	.0	.0	.0	2.4	12.5	3.6	1.4	83	20.0
80/84	.0	.0	.0	.2	1.9	26.0	32.8	5.5	276	66.5
75/79	.0	.0	.0	.0	.0	.5	4.1	6.3	45	10.8
70/74	.0	.0	.0	.0	.0	.0	.0	.7	3	.7
TOTAL	0	0	0	1	23	165	168	58	415	100.0
PCT	.0	.0	.0	.2	5.5	39.8	40.5	14.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.2	.0	.2	.2	.0	.2	.2	.0	.0	.7
	1.2	.8	.5	1.6	2.3	5.6	2.8	1.3	.0	3.9
	3.9	3.8	2.7	3.0	6.7	18.6	14.7	3.1	.0	10.1
	.8	.1	.0	1.4	1.4	3.0	1.4	.8	.0	1.9
	.2	.0	.1	.4	.0	.0	.0	.1	.0	.0
	6.3	4.7	3.6	6.7	10.4	27.3	19.2	5.2	.0	16.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	92	90	88	83	76	74	73	82.2	201
06E09	94	91	90	84	78	77	74	84.2	204
12E15	90	87	86	83	79	77	73	82.8	198
18E21	88	85	84	82	77	75	73	81.6	177
TOT	94	90	88	83	77	75	73	82.8	780

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.8	3.9	33.1	41.7	20.5	82	127
06E09	.0	.0	11.7	56.8	22.5	9.0	78	111
12E15	.0	.0	2.7	39.1	46.4	11.8	82	110
18E21	.0	.0	2.1	30.5	48.4	18.9	83	95
TOT	0	1	23	177	175	67	81	443

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.2	1	.0	.2
9/10	.0	.0	.0	.2	.5	4	.0	.7
7/8	.0	.0	.2	.3	.2	4	.0	.7
6	.0	.0	.0	.3	.5	5	.0	.9
5	.0	.0	.0	1.4	.9	16	.0	2.7
4	.0	.0	1.5	1.7	.5	22	.0	3.8
3	.0	.0	1.5	1.7	1.2	26	.0	4.4
2	.0	.0	5.5	3.6	.0	53	.0	9.0
1	.0	.9	3.8	4.1	.0	51	.0	8.7
0	.0	.9	6.7	2.7	.2	61	.0	10.4
-1	.0	1.0	9.9	1.2	.0	71	.0	12.1
-2	.0	.9	13.7	.7	.0	89	.0	15.2
-3	.0	2.0	8.9	.0	.0	64	.0	10.9
-4	.0	3.4	4.6	.0	.0	47	.0	8.0
-5	.2	1.5	1.2	.2	.0	18	.0	3.1
-6	.7	2.0	.5	.0	.0	19	.0	3.2
-7/-8	.9	2.2	.3	.0	.0	20	.0	3.4
-9/-10	.3	.9	.2	.0	.0	8	.0	1.4
-11/-13	.9	.3	.0	.0	.0	7	.0	1.2
TOTAL	17	94	342	109	24	586	0	586
PCT	2.9	16.0	58.4	18.6	4.1	100.0		100.0

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	3.5	.0	.6	.0	.0	.0	4.1
1-2	.6	1.6	1.7	.0	.0	.0	4.0
3-4	.0	.6	.0	.0	.0	.0	.6
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.1	2.2	2.4	.0	.0	.0	8.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	.6	.0	.0	.0	.0	1.6
1-2	.6	1.6	.0	.0	.0	.0	2.2
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.6	.0	.0	.0	.0	.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	2.8	.0	.0	.0	.0	4.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	.5	.0	.0	.0	.0	1.7
1-2	.0	1.1	.0	.0	.0	.0	1.1
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	1.6	.0	.0	.0	.0	2.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	.3	.0	.0	.0	.0	1.1
1-2	.0	4.3	.0	.0	.0	.0	4.3
3-4	.0	.0	.6	.0	.0	.0	.6
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	4.6	.6	.0	.0	.0	6.0

PERIOD: (OVER-ALL) 1963-1972 AREA 0007 SARAWAK 3.6N 111.8E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.2	1.6	.0	.0	.0	.0	3.8
1-2	.5	4.4	.5	.0	.0	.0	5.4
3-4	.0	2.4	1.1	.0	.0	.0	3.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.7	8.4	1.6	.0	.0	.0	12.7

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.7	3.3	.0	.0	.0	.0	5.1
1-2	.8	8.7	3.5	.0	.0	.0	13.0
3-4	.4	4.9	2.7	.0	.0	.0	8.2
5-6	.0	.2	1.4	.6	.0	.0	2.2
7	.0	.0	.0	.6	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.6	.0	.0	.0	.6
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	17.1	8.2	1.3	.0	.0	29.7

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.1	1.3	.0	.0	.0	.0	3.3
1-2	1.1	7.1	.9	.0	.0	.0	9.2
3-4	.0	2.2	1.9	.0	.0	.0	4.1
5-6	.0	.5	.5	.0	.0	.0	.9
7	.0	.0	.6	.6	.0	.0	1.3
8-9	.0	.0	.0	.6	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.2	11.1	4.0	1.3	.0	.0	19.5

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.8	.6	.0	.0	.0	.0	1.4	
1-2	.2	1.6	.3	.0	.0	.0	2.1	
3-4	.0	.0	.6	.0	.0	.0	.6	
5-6	.0	.0	.6	.0	.0	.0	.6	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.9	2.2	1.6	.0	.0	.0	4.7	88.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	26.5	8.0	.6	.0	.0	.0	35.2	
1-2	3.7	29.6	6.8	.0	.0	.0	40.1	
3-4	.6	9.9	6.8	.0	.0	.0	17.3	
5-6	.0	1.2	2.5	.6	.0	.0	4.3	
7	.0	.0	.6	1.2	.0	.0	1.9	
8-9	.0	.0	.0	.6	.0	.0	.6	
10-11	.0	.0	.6	.0	.0	.0	.6	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	30.9	48.8	17.9	2.5	.0	.0	100.0	162

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	13.5	28.4	16.3	3.9	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	179	2
6-7	.0	1.4	5.0	1.8	1.1	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	4
8-9	.0	.7	.7	.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	4
10-11	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	11
12-13	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	11
>13	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
INDET	19.5	2.5	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	65	0
TOTAL	93	93	65	18	8	1	0	3	1	0	0	0	0	0	0	0	0	0	0	282	2
PCT	33.0	33.0	23.0	6.4	2.8	.4	.0	1.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1930-1972
(OVER-ALL) 1879-1972

AREA 0007 SARAWAK
3.7N 111.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	6.7	7.8	.0	.0	.0	.0	.0	14.4	11.1	3.3	.0	.0	.0	.0		71.1
NE	7.8	7.8	.0	.0	.0	.0	.0	15.6	1.6	7.8	.0	.0	.0	.0		75.0
E	5.4	.0	.0	.0	.0	.0	.0	5.4	5.4	.0	.0	.0	.0	.0		89.2
SE	6.5	.0	.0	.0	.0	.0	.0	6.5	5.8	2.9	.0	.0	.0	.0		84.8
S	2.9	2.1	1.1	.0	.0	.0	.0	6.1	1.1	4.3	.0	.0	2.1	.0		86.4
SW	3.8	2.2	.9	.0	.0	.0	.0	6.9	.6	3.9	.0	.0	.6	.0		87.9
W	3.8	5.2	.5	.0	.0	.0	.0	9.4	4.7	3.5	.0	.0	1.9	.0		80.5
NW	3.8	9.0	.0	.0	.0	.0	.0	12.8	.8	6.0	.0	.0	.0	.0		80.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	1.4	.0	.0	.0	.0	.0	.0	1.4	.0	7.0	1.4	.0	4.2	.0		85.9
TOT PCT	3.8	3.1	.5	.0	.0	.0	.0	7.4	2.3	4.3	.2	.0	1.4	.0		84.3
TOT OBS:	555															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	6.9	3.5	.6	.0	.0	.0	.0	11.0	2.3	1.2	.6	.0	.6	.0		84.4
06&09	3.2	2.4	.8	.0	.0	.0	.0	6.4	3.2	.0	.0	.0	.8	.0		89.6
12&15	1.2	2.5	.6	.0	.0	.0	.0	4.3	1.2	5.5	.0	.0	1.8	.0		87.1
18&21	2.3	3.0	.0	.0	.0	.0	.0	5.3	2.3	10.5	.0	.0	2.3	.0		79.7
TOT PCT	3.5	2.9	.5	.0	.0	.0	.0	6.9	2.2	4.2	.2	.0	1.3	.0		85.2
TOT OBS:	594															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.9	2.2	.9	.0	.0	.0		3.6	6.7	3.2	1.7	3.7	.0	4.2	2.4	5.1	2.9
NE	.8	1.7	.9	.0	.0	.0		2.8	5.8	.6	1.7	2.6	1.6	2.8	4.8	5.9	2.9
E	1.1	1.9	.2	.0	.0	.0		3.1	4.7	6.5	.0	4.3	1.6	1.1	.0	.8	5.9
SE	1.7	4.1	.3	.0	.0	.0		6.2	6.0	8.7	8.6	8.5	3.2	5.4	4.8	1.9	5.9
S	3.7	10.8	2.0	.0	.0	.0		16.4	6.7	19.7	30.2	19.9	13.7	14.4	7.1	11.0	13.2
SW	9.0	18.6	7.8	.5	.0	.0		29.9	8.8	32.1	30.2	29.1	29.0	28.8	16.7	30.5	33.8
W	3.3	12.6	4.5	.0	.0	.0		20.3	7.7	13.7	10.3	20.3	42.7	21.7	35.7	20.1	23.5
NW	1.7	3.5	.9	.0	.0	.0		5.7	5.7	3.2	13.8	4.3	4.8	10.5	9.5	3.4	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	12.0							12.0	.0	12.3	3.4	7.3	3.2	11.1	19.0	21.2	11.0
TOT OBS	187	368	106	3	0	0	664		6.6	155	29	123	31	153	21	118	34
TOT PCT	28.2	55.4	16.0	.5	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.9	1.6	.1	.0	.0		3.6	6.7	3.0	2.9	4.0	4.6
NE	2.0	.8	.0	.0	.0		2.8	5.8	.8	2.4	3.0	5.3
E	2.8	.3	.0	.0	.0		3.1	4.7	5.4	3.7	1.0	2.0
SE	3.6	2.6	.0	.0	.0		6.2	6.0	8.7	7.5	5.3	2.8
S	8.4	7.9	.2	.0	.0		16.4	6.7	21.3	18.7	13.5	11.5
SW	11.4	16.3	2.1	.0	.0		29.9	8.8	31.8	29.1	27.3	31.3
W	10.1	8.8	1.5	.0	.0		20.3	7.7	13.2	24.8	23.4	20.9
NW	3.8	1.9	*	.0	.0		5.7	5.7	4.9	4.4	10.3	2.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	12.0						12.0	.0	10.9	8.5	12.1	19.1
TOT OBS	371	267	26	0	0	664		6.6	184	154	174	152
TOT PCT	55.9	40.2	3.9	.0	.0		100.0		100.0	100.0	100.0	100.0

AUGUST

PERIOD: (PRIMARY) 1930-1972
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
				WIND SPEED (KNOTS)						
00&03	10.9	13.6	59.8	14.7	1.1	.0	.0	6.8	100.0	184
06&09	6.5	17.5	57.1	18.8	.0	.0	.0	7.1	100.0	154
12&15	12.1	17.2	54.0	16.7	.0	.0	.0	6.4	100.0	174
18&21	19.1	16.4	50.0	13.8	.7	.0	.0	5.9	100.0	152
TOT	80	107	368	106	3	0	0	6.6		664
PCT	12.0	16.1	55.4	16.0	.5	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.6	.5	1.9	1.0		5.4
NE	.4	1.0	.4	1.1		5.5
E	.7	.5	.9	1.0		5.3
SE	.4	.6	2.7	1.1		6.0
S	2.8	1.4	9.5	4.1		5.6
SW	4.7	5.0	11.0	8.5		5.3
W	1.9	4.2	8.7	4.6		5.4
NW	1.0	1.6	1.9	.9		4.6
VAR	.0	.0	.0	.0		.0
CALM	3.2	3.0	4.7	2.5		4.6
TOT OBS	63	71	168	99	401	5.3
TOT PCT	15.7	17.7	41.9	24.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8 AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.2	.0	.4	.0	.2	.0	.0	.0	.0	.0	3.3	
NE	.0	.0	.1	.0	.6	.0	.0	.0	.0	.0	2.3	
E	.0	.0	.2	.0	.2	.2	.2	.2	.0	.0	2.0	
SE	.1	.0	.0	.0	1.4	.6	.4	.0	.0	.0	2.4	
S	.4	.0	.0	1.9	1.6	1.2	.4	.0	.0	.0	12.0	
SW	.2	.0	.3	1.1	2.0	1.4	1.4	.5	.0	.5	21.8	
W	.5	.0	.2	.7	1.3	2.1	.4	.0	.0	.0	14.2	
NW	.1	.0	.1	.0	1.0	.2	.2	.0	.0	.0	3.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.2	.0	1.0	.2	.2	.0	.0	.0	11.7	
TOT OBS	6	0	6	15	38	24	13	3	0	2	294	401
TOT PCT	1.5	.0	1.5	3.7	9.5	6.0	3.2	.7	.0	.5	73.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.5	.5	.5	.5	.5	.5	.5	.5
* OR >5000	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
* OR >3500	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
* OR >2000	9.1	9.8	9.8	9.8	9.8	9.8	9.8	9.8
* OR >1000	16.1	18.5	18.9	19.4	19.4	19.4	19.4	19.4
* OR >600	18.2	22.2	22.7	23.1	23.1	23.1	23.1	23.1
* OR >300	19.2	23.1	24.1	24.5	24.5	24.5	24.5	24.5
* OR >150	19.2	23.1	24.1	24.5	24.5	24.5	24.5	24.5
* OR > 0	19.6	24.1	25.0	25.7	25.7	25.7	25.9	25.9
TOTAL	64	103	107	110	110	110	111	111

TOTAL NUMBER OF OBS: 428

PCT FREQ NH <5/8: 74.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
12.1	12.9	22.2	14.6	11.9	5.1	5.7	5.5	6.9	1.1	472

PERIOD: (PRIMARY) 1930-1972
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	PCP	.1	*	.0	.0	.0	.4	.0	.0	.0	.0	.5	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	*	.0	.0	.0	.4	.0	.0	.0	.0	.5	
	PCP	.1	*	.0	.0	.0	.2	.0	.2	.0	.0	.5	
2<5	NO PCP	.1	*	.0	.0	.4	.6	.1	.0	.0	.0	1.3	
	TOT %	.3	.1	.0	.0	.4	.8	.1	.2	.0	.0	1.8	
	PCP	.1	.2	.2	.4	.3	.8	.6	.1	.0	.0	2.7	
5<10	NO PCP	.8	.4	.2	1.3	3.6	6.0	3.3	.9	.0	2.0	18.4	
	TOT %	.9	.6	.4	1.7	3.9	6.8	3.9	1.0	.0	2.0	21.1	
	PCP	.2	.2	.0	.0	.7	.6	1.0	.5	.0	.2	3.4	
10+	NO PCP	2.6	2.0	3.0	4.5	11.8	20.1	14.0	4.3	.0	10.5	72.8	
	TOT %	2.8	2.2	3.0	4.5	12.6	20.7	15.0	4.8	.0	10.6	76.2	
	TOT OBS												555
	TOT PCT	4.1	2.9	3.3	6.2	16.8	28.7	19.2	6.0	.0	12.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.2	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.1	*	.0	.0	.0	.2	.0	.2	.0		.5	
	11-21	.0	.0	.0	.0	.0	.2	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	*	.0	.0	.0	.3	.0	.2	.0	.0	.7	
	0-3	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
2<5	4-10	.3	.1	.0	.0	.3	.4	.1	.0	.0		1.2	
	11-21	.0	.0	.0	.0	.0	.3	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.1	.0	.0	.3	.8	.1	.2	.0	.0	1.7	
	0-3	.3	.0	.0	.3	1.4	.8	.4	.6	.0	1.9	5.8	
5<10	4-10	.5	.6	.2	1.1	2.1	3.5	2.0	.3	.0		10.1	
	11-21	.1	.0	.2	.2	.3	2.1	1.5	.1	.0		4.5	
	22+	.0	.0	.0	.0	.0	.2	.0	.0	.0		.2	
	TOT %	.6	.6	.3	1.6	3.8	6.6	4.0	1.0	.0	1.9	22.6	
	0-3	.8	.5	1.0	1.0	2.2	2.4	2.8	.8	.0	10.3	21.9	
10+	4-10	1.4	1.2	1.8	3.3	8.7	13.3	10.6	3.4	.0		43.7	
	11-21	.4	.3	.0	.2	1.6	5.1	2.5	.5	.0		10.7	
	22+	.0	.0	.0	.0	.0	.3	.0	.0	.0		.3	
	TOT %	2.7	2.1	2.9	4.4	12.3	21.1	15.9	4.7	.0	10.3	76.6	
	TOT OBS												572
	TOT PCT	3.9	2.8	3.2	6.0	16.6	28.8	20.1	6.0	.8	12.4	100.0	

AUGUST

PERIOD: (PRIMARY) 1930-1972
(OVER-ALL) 1879-1972

TABLE 10

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PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	3.1	.0	.8	4.7	8.5	5.4	3.9	1.6	.0	.8	28.7	71.3	129
06E09	1.0	.0	1.9	4.9	10.7	5.8	4.9	.0	.0	.0	29.1	70.9	103
12E15	.0	.0	.8	2.5	9.2	5.8	2.5	.0	.0	.0	20.8	79.2	120
18E21	.9	.0	1.9	1.9	7.5	3.7	.0	.9	.0	.9	17.8	82.2	107
TOT	6	0	6	16	41	24	13	3	0	2	111	344	459
PCT	1.3	.0	1.3	3.5	8.9	5.2	2.8	.7	.0	.4	24.2	75.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.6	.6	.6	2.3	18.6	77.4	177
06E09	.0	.0	.8	1.5	17.7	80.0	130
12E15	.0	.0	.6	1.8	21.3	76.3	169
18E21	.0	.0	1.9	1.5	21.3	75.7	136
TOT	1	1	4	11	121	479	612
PCT	.2	.2	.8	1.8	19.8	77.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	3.4	4.2	11.8	21.0	67.2	119
06E09	1.0	3.1	10.3	20.6	69.1	97
12E15	.0	.9	6.3	18.8	75.0	112
18E21	1.0	3.0	7.0	13.0	80.0	100
TOT	6	12	38	79	311	428
PCT	1.4	2.8	8.9	18.5	72.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	1.1	.4	.2	.0	8	1.8
85/89	.0	.0	.0	.2	2.2	8.3	1.8	.4	58	13.0
80/84	.0	.0	.0	.0	.7	25.2	38.7	9.0	327	73.5
75/79	.0	.0	.0	.0	.0	1.1	4.5	5.4	49	11.0
70/74	.0	.0	.0	.0	.0	.0	.0	.7	3	.7
TOTAL	0	0	0	1	18	156	201	69	445	100.0
PCT	.0	.0	.0	.2	4.0	35.1	45.2	15.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.4	.9	.0	.2	.0	.2
.5	.0	.2	.5	3.1	4.7	3.1	.2	.0	.7
2.8	2.0	2.4	4.3	11.7	21.2	14.2	4.8	.0	10.1
.5	.5	.4	1.3	3.3	2.1	1.2	.2	.0	1.3
.2	.1	.2	.1	.0	.2	.0	.0	.0	.0
4.0	2.6	3.3	6.2	18.6	29.1	18.4	5.6	.0	12.4

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	92	89	86	82	76	74	74	81.8	191
06E09	93	91	89	84	79	76	76	83.8	152
12E15	90	88	85	83	79	77	76	82.5	184
18E21	88	85	84	82	77	75	73	81.5	156
TOT	93	90	87	82	77	75	73	82.4	683

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.7	3.5	29.8	45.4	20.6	82	141
06E09	.0	.0	9.4	45.3	36.8	8.5	79	106
12E15	.0	.0	2.9	35.8	46.7	14.6	82	137
18E21	.0	.0	1.0	26.5	53.1	19.4	83	98
TOT	0	1	20	165	219	77	82	482

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PERIOD: (PRIMARY) 1930-1972
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.0	.4	.2	2	.0	.4
6	.0	.0	.0	.0	.8	.0	4	.0	.8
5	.0	.0	.6	.2	1.0	.0	9	.0	1.8
4	.0	.0	.0	.8	.0	.0	4	.0	.8
3	.0	.0	.0	1.0	.2	.0	7	.0	1.4
2	.0	.2	1.4	2.9	.0	.0	23	.0	4.5
1	.0	.0	2.9	2.7	.0	.0	29	.0	5.7
0	.0	.2	11.9	9.1	.0	.0	78	.0	15.2
-1	.2	.4	11.9	1.0	.0	.0	69	.0	13.5
-2	.0	2.0	15.2	.0	.0	.0	88	.0	17.2
-3	.0	1.4	11.9	.6	.0	.0	71	.0	13.9
-4	.0	3.3	6.1	.0	.0	.0	48	.0	9.4
-5	.2	3.5	2.7	.2	.0	.0	34	.0	6.6
-6	.4	2.3	.6	.0	.0	.0	17	.0	3.3
-7/-8	1.0	3.1	.0	.0	.0	.0	21	.0	4.1
-9/-10	1.2	.0	.0	.0	.0	.0	6	.0	1.2
TOTAL	15		334		11			0	512
		84		67		1	512		
PCT	2.9	16.4	65.2	13.1	2.1	.2	100.0		100.0

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.0	.0	.0	.0	1.0
1-2	.7	3.2	.0	.0	.0	.0	3.9
3-4	.0	.5	.5	.0	.0	.0	1.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	4.7	.5	.0	.0	.0	5.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	.0	1.5	.0	.0	.0	.0	1.5
3-4	.0	.4	.0	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.8	.0	.0	.0	.0	1.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.0	.7	.0	.0	.0	.0	2.7
1-2	.0	.5	.0	.0	.0	.0	.5
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.0	1.2	.0	.0	.0	.0	3.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.7	.0	.0	.0	.0	1.3
1-2	1.0	1.8	.0	.0	.0	.0	2.9
3-4	.0	.2	.0	.0	.0	.0	.2
5-6	.0	.7	.0	.0	.0	.0	.7
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	3.4	.0	.0	.0	.0	5.0

PERIOD: (OVER-ALL) 1963-1972

AUGUST

TABLE 18 (CONT)

AREA 0007 SARAWAK 3.7N 111.8E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.0	.0	.0	.0	.0	.0	2.0
1-2	2.3	7.2	1.3	.0	.0	.0	10.9
3-4	.0	3.7	.7	.0	.0	.0	4.4
5-6	.0	.0	.7	.0	.0	.0	.7
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.4	10.9	2.7	.0	.0	.0	18.0

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	1.3	.7	.0	.0	.0	3.4
1-2	.7	5.0	1.5	.0	.0	.0	7.2
3-4	.0	8.6	2.0	.0	.0	.0	10.6
5-6	.0	.0	3.4	.0	.0	.0	3.4
7	.0	.2	.2	.0	.0	.0	.5
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.0	15.1	7.9	.0	.0	.0	25.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.0	.0	.0	.0	.0	2.0
1-2	.7	12.2	.5	.0	.0	.0	13.4
3-4	.0	3.0	.7	.0	.0	.0	3.7
5-6	.0	1.3	.0	.0	.0	.0	1.3
7	.0	.5	.5	.0	.0	.0	1.0
8-9	.0	.0	1.8	.0	.0	.0	1.8
10-11	.0	.0	1.3	.0	.0	.0	1.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	19.1	4.9	.0	.0	.0	24.7

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.3	.8	.0	.0	.0	.0	2.2	
1-2	.7	2.0	.0	.0	.0	.0	2.7	
3-4	.0	.0	.2	.0	.0	.0	.2	
5-6	.0	.0	.7	.0	.0	.0	.7	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.0	2.9	.9	.0	.0	.0	5.7	89.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	18.7	6.7	.7	.0	.0	.0	26.0	
1-2	6.0	33.3	3.3	.0	.0	.0	42.7	
3-4	.0	16.0	4.0	.0	.0	.0	20.0	
5-6	.0	2.0	4.7	.0	.0	.0	6.7	
7	.0	.7	.7	.0	.0	.0	1.3	
8-9	.0	.0	2.0	.0	.0	.0	2.0	
10-11	.0	.0	1.3	.0	.0	.0	1.3	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	24.7	58.7	16.7	.0	.0	.0	100.0	150

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	7.7	30.4	17.6	5.8	.5	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	195	2
6-7	.3	3.5	6.7	1.9	.0	.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42	3
8-9	.0	.0	1.0	1.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	4
10-11	.0	.0	.6	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	5
12-13	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	12.5	4.2	2.9	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	64	1
TOTAL	64	119	90	31	4	3	2	0	0	0	0	0	0	0	0	0	0	0	0	313	2
PCT	20.4	38.0	28.8	9.9	1.3	1.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1927-1972
(OVER-ALL) 1858-1972

AREA 0007 SARAWAK
3.6N 111.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.5	1.9	2.5	.0	.0	.0	.0	6.9	.0	6.3	.0	.0	2.5		.0	84.4
NE	.0	3.2	3.2	.0	.0	.0	.0	6.3	3.2	3.2	.0	.0	.0		.0	87.3
E	4.6	.0	4.6	.0	.0	.0	.0	9.2	.0	.0	.0	.0	4.6		.0	86.2
SE	3.1	.0	.0	.0	.0	.0	.0	3.1	.0	[illegible]	.0	.0	.0		.0	96.9
S	.0	2.7	1.8	.0	.0	.0	.0	4.4	.0	[illegible]	.0	.0	2.7		.0	89.4
SW	6.3	2.2	2.8	.0	.0	.0	.0	10.5	3.2	3.4	.0	.0	2.0		.8	81.1
W	9.3	2.2	3.1	.0	.0	.0	.0	13.3	.0	3.4	.0	.0	.9		.0	82.4
NW	2.8	4.2	3.7	.0	.0	.0	.0	8.9	.0	.9	.0	.0	.5		.0	89.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	1.4	.0	.0	.0	.0	.0	.0	1.4	.0	8.1	4.1	.0	14.9		.0	71.6
TOT PCT	4.1	1.9	2.3	.0	.0	.0	.0	7.7	1.0	3.7	.6	.0	3.5		.2	83.6
TOT OBS:	517															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00Z03	4.4	2.5	1.9	.0	.0	.0	.0	8.8	2.5	1.3	1.3	1.3	3.1		.0	82.5
06Z09	1.5	2.2	1.5	.0	.0	.0	.0	5.2	.0	.0	.0	.0	3.7		.7	90.3
12Z15	2.7	.0	2.7	.0	.0	.0	.0	4.0	.0	4.0	1.3	.0	3.4		.0	87.2
18Z21	6.8	2.5	2.5	.0	.0	.0	.0	11.0	.8	9.3	2.5	.0	2.5		.0	73.7
TOT PCT	3.7	1.8	2.1	.0	.0	.0	.0	7.1	.9	3.6	1.2	.4	3.2		.2	83.8
TOT OBS:	561															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.8	4.6	.7	.0	.0	.0		7.1	5.9	3.1	6.8	4.0	8.3	8.0	16.3	8.6	11.2
NE	1.7	4.1	.5	.0	.0	.0		6.3	6.0	7.3	3.4	7.0	1.4	4.5	10.0	7.1	9.7
E	1.3	3.1	.1	.0	.0	.0		4.6	5.2	8.0	5.7	7.0	.7	1.4	1.3	3.9	5.2
SE	1.9	4.9	.9	.0	.0	.0		7.7	5.9	12.8	11.4	7.2	4.9	2.4	7.5	3.2	19.7
S	2.2	7.1	1.9	.0	.0	.0		10.7	6.7	13.1	19.3	16.0	6.9	5.9	5.0	10.5	6.7
SW	3.0	16.6	5.8	.6	.0	.0		25.9	8.3	27.4	30.7	30.3	26.0	21.7	18.8	22.8	28.0
W	3.0	9.8	2.9	.2	.0	.0		15.5	7.0	9.3	11.4	10.8	28.1	27.1	16.3	8.6	13.8
NW	2.2	5.7	1.0	.0	.0	.0		9.0	6.3	4.7	6.8	7.4	15.3	9.3	20.0	11.8	5.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	13.3							13.3	.0	14.3	4.5	10.3	8.3	19.6	5.0	23.5	4.5
TOT OBS	230	424	98	6	0	0	758		6.0	154	44	136	72	143	40	102	67
TOT PCT	30.3	55.9	12.9	.8	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	5.0	1.9	.1	.0	.0		7.1	5.9	3.9	5.5	9.8	9.6
NE	3.8	2.4	.0	.0	.0		6.3	6.0	6.4	5.0	5.7	8.1
E	3.4	1.2	.0	.0	.0		4.6	5.2	7.4	4.8	1.4	4.4
SE	5.3	2.4	.0	.0	.0		7.7	5.9	12.5	6.4	3.6	8.1
S	6.6	3.9	.2	.0	.0		10.7	6.7	14.5	12.9	5.7	9.0
SW	11.3	13.1	1.5	.0	.0		25.9	8.3	28.2	28.8	21.0	24.9
W	9.1	6.0	.3	.1	.0		15.5	7.0	9.7	18.8	24.7	10.7
NW	5.7	3.0	.3	.0	.0		9.0	6.3	5.2	10.1	11.6	9.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	13.3						13.3	.0	12.1	9.6	10.4	16.0
TOT OBS	482	257	18	1	0	758		6.0	198	208	183	169
TOT PCT	63.6	33.9	2.4	.1	.0		100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1927-1972
(OVER-ALL) 1858-1972

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	12.1	15.2	55.1	16.7	.0	.0	.0	6.1	100.0	198
06&09	9.6	18.3	58.7	13.0	.5	.0	.0	6.2	100.0	208
12&15	16.4	14.8	56.3	11.5	1.1	.0	.0	5.9	100.0	183
18&21	16.0	18.9	53.3	10.1	1.8	.0	.0	5.7	100.0	169
TOT	101	129	424	98	6	0	0	6.0		758
PCT	13.3	17.0	55.9	12.9	.8	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.1	.9	3.2	1.2		5.3
NE	1.6	.6	4.0	1.0		5.0
E	1.3	.6	2.0	.9		5.0
SE	.6	.7	2.9	1.2		5.5
S	1.3	3.6	5.2	2.5		5.1
SW	3.4	9.1	10.4	8.1		5.7
W	.6	3.0	4.4	4.1		5.6
NW	1.1	2.1	2.4	1.8		5.2
VAR	.0	.0	.0	.0		.0
CALM	2.5	4.4	9.1	3.1		5.1
TOT OBS	43	81	139	76	319	5.3
TOT PCT	13.5	19.1	43.6	23.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	1.8	.8	.5	.0	.0	.0	3.3	
NE	.0	.0	.0	.4	1.6	.3	.0	.0	.0	.0	4.9	
E	.0	.0	.0	.9	.3	.3	.3	.0	.0	.0	3.0	
SE	.0	.0	.0	.1	.5	.1	.0	.0	.0	.0	4.8	
S	.0	.0	.0	.9	1.9	.5	.0	.0	.0	.0	9.2	
SW	.3	.0	.3	2.6	2.7	.6	.6	.0	.0	.0	17.9	
W	.0	.0	.3	1.2	2.7	.3	.2	.0	.0	.0	7.3	
NW	.0	.0	.3	.3	1.1	.5	.2	.0	.0	.0	5.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.3	.0	.0	1.3	1.3	.9	.3	.0	.0	.6	14.6	
TOT OBS	2	0	3	24	44	14	7	0	0	2	223	319
TOT PCT	.6	.0	.9	7.5	13.8	4.4	2.2	.0	.0	.6	69.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
* OR >5000	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
* OR >3500	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
* OR >2000	6.2	7.3	7.6	7.6	7.6	7.6	7.6	7.6
* OR >1000	16.1	19.7	20.3	20.3	20.3	20.3	20.3	20.3
* OR >600	20.6	25.9	27.0	27.0	27.0	27.0	27.0	27.0
* OR >300	20.8	26.2	27.9	27.9	27.9	27.9	27.9	27.9
* OR >150	20.8	26.2	27.9	27.9	27.9	27.9	27.9	27.9
* OR > 0	21.1	26.8	28.5	28.5	28.5	28.5	28.7	28.7
TOTAL	75	95	101	101	101	101	102	102

TOTAL NUMBER OF OBS: 355 PCT FREQ NH <5/8: 71.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
10.0	11.8	19.2	16.4	12.3	7.2	7.7	6.7	7.9	.8	390

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
1/2<1	PCP	.0	.0	.0	.0	.0	.1	.1	.2	.0	.0	.4	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.1	.1	.2	.0	.0	.4	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.4	
	TOT %	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.4	
2<5	PCP	.0	.0	.2	.0	.0	.2	.2	.2	.0	.0	.8	
	NO PCP	.1	.4	.0	.0	.3	.1	.5	.2	.0	.2	1.9	
	TOT %	.1	.4	.2	.0	.3	.9	.7	.4	.0	.2	2.7	
5<10	PCP	.4	.0	.2	.0	.3	1.6	1.1	.3	.0	.2	4.1	
	NO PCP	1.7	1.1	.4	1.8	2.4	5.0	4.3	2.3	.0	3.3	22.2	
	TOT %	2.1	1.1	.6	1.8	2.7	6.6	5.4	2.6	.0	3.5	26.3	
10+	PCP	.1	.4	.0	.2	.2	.7	.7	.2	.0	.0	2.5	
	NO PCP	9.3	4.2	3.2	4.2	7.8	16.8	8.6	6.9	.0	10.4	67.5	
	TOT %	9.5	4.6	3.2	4.4	8.0	17.5	9.3	7.1	.0	10.4	70.0	
	TOT OBS												517
	TOT PCT	7.7	6.1	4.2	6.2	10.9	24.9	15.7	10.3	.0	14.3	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	.2	.2	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
	4-10	.0	.2	.0	.0	.0	.2	.2	.0	.0		.5	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	.0	.0	.0	.2	.2	.2	.0	.0	.7	
1<2	0-3	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
	4-10	.0	.0	.2	.0	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.3	
2<5	0-3	.1	.2	.0	.0	.0	.0	.2	.2	.0	.2	.8	
	4-10	.2	.2	.2	.2	.3	.1	.5	.2	.0		1.8	
	11-21	.0	.0	.0	.0	.0	.2	.2	.2	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.4	.2	.2	.3	.2	.8	.5	.0	.2	3.1	
5<10	0-3	.6	.2	.2	.5	.4	1.3	1.1	.5	.0	3.8	8.6	
	4-10	1.8	1.4	.6	2.0	2.3	3.9	4.0	2.1	.0		17.9	
	11-21	.5	.1	.2	.4	.6	1.3	.9	.2	.0		4.1	
	22+	.0	.0	.0	.0	.0	.3	.0	.0	.0		.3	
	TOT %	2.9	1.7	.7	2.9	3.3	6.8	6.0	2.8	.0	3.8	31.0	
10+	0-3	1.4	1.4	.9	1.4	1.8	1.3	1.1	1.5	.0	9.6	20.5	
	4-10	3.3	2.3	2.6	2.9	4.7	10.1	6.0	4.3	.0		36.3	
	11-21	.2	.5	.0	.2	.9	4.1	1.5	.4	.0		7.8	
	22+	.0	.0	.0	.0	.0	.2	.0	.0	.0		.2	
	TOT %	4.8	4.2	3.5	4.5	7.4	15.7	8.7	6.3	.0	9.6	64.7	
	TOT OBS												604
	TOT PCT	8.0	6.5	4.6	7.6	11.0	23.0	15.8	9.8	.0	13.7	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1927-1972
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.9	.0	2.8	8.3	15.6	.9	.9	.0	.0	.9	30.3	69.7	109
06E09	.0	.0	.0	5.2	9.3	5.2	2.1	.0	.0	1.0	22.7	77.3	97
12E15	1.1	.0	.0	7.5	12.9	3.2	3.2	.0	.0	.0	28.0	72.0	93
18E21	1.3	.0	.0	3.9	9.2	7.9	2.6	.0	.0	3.9	28.9	71.1	76
TOT	3	0	3	24	45	15	8	0	0	5	103	272	375
PCT	.8	.0	.8	6.4	12.0	4.0	2.1	.0	.0	1.3	27.5	72.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.5	1.1	1.6	2.2	33.3	61.2	183
06E09	.0	.0	.6	1.9	20.0	77.4	155
12E15	.0	.0	.0	2.9	35.9	61.2	170
18E21	.0	1.4	.0	5.7	27.1	65.7	140
TOT	1	4	4	20	191	428	648
PCT	.2	.6	.6	3.1	29.5	66.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	1.0	3.8	14.4	19.2	66.3	104
06E09	.0	.0	5.4	17.4	77.2	92
12E15	1.1	1.1	13.6	19.3	67.0	88
18E21	1.4	1.4	11.3	23.9	64.8	71
TOT	3	6	40	70	245	355
PCT	.8	1.7	11.3	19.7	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
90/94	.0	.0	.0	.5	.5	.2	.0	.0	5	1.2
85/89	.0	.0	.0	.2	4.0	9.3	3.0	.2	72	16.7
80/84	.0	.0	.0	.0	.9	23.0	38.6	7.0	299	69.5
75/79	.0	.0	.0	.0	.2	.5	4.9	7.0	54	12.6
TOTAL	0	0	0	3	24	142	200	61	430	100.0
PCT	.0	.0	.0	.7	5.6	33.0	46.5	14.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.0	.0	.0	.0	.0	.2	.1	.0	.7
1.3	1.4	.9	.5	1.9	3.1	2.4	1.0	.0	3.7
4.9	4.2	3.0	4.4	8.0	10.6	11.4	7.2	.0	10.0
.9	.3	.6	1.6	.9	4.1	1.5	1.4	.0	1.2
7.2	5.9	4.6	6.5	10.8	23.7	15.5	10.3	.0	15.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	90	88	86	82	77	75	75	81.6	195
06E09	95	92	90	84	79	76	74	83.9	205
12E15	87	86	86	82	79	77	76	82.2	175
18E21	86	85	84	81	78	75	75	81.2	175
TOT	95	91	87	82	78	75	74	82.3	750

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.7	.7	27.9	47.1	23.5	84	136
06E09	.0	2.8	14.8	50.9	25.0	6.5	76	108
12E15	.0	.0	4.0	28.8	60.0	7.2	81	125
18E21	.0	.0	3.0	31.3	50.5	15.2	82	99
TOT	0	4	25	160	216	63	81	468

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.2	1	.0	.2
9/10	.0	.0	.0	.0	.2	1	0	.2
7/8	.0	.0	.0	.0	.4	2	.0	.4
6	.0	.0	.2	.2	.2	3	.4	.2
5	.0	.0	.2	.0	.6	4	.0	.8
4	.0	.2	.6	1.2	.4	12	.4	2.0
3	.0	.0	.2	1.4	.2	9	.0	1.8
2	.0	.0	1.6	3.0	.0	23	.0	4.6
1	.0	.2	4.2	5.0	.0	47	.2	9.1
0	.0	.2	11.3	4.0	.0	78	.2	15.2
-1	.0	.6	11.1	1.2	.0	65	.0	12.9
-2	.2	1.4	14.3	.2	.0	81	.2	15.8
-3	.0	2.8	6.7	.0	.0	48	.0	9.5
-4	.2	6.3	5.0	.2	.0	59	.0	11.7
-5	.0	4.8	1.8	.0	.0	33	.0	6.5
-6	.4	3.6	.2	.0	.0	21	.0	4.2
-7/-8	1.2	1.8	.0	.0	.0	15	.0	3.0
-9/-10	.4	.2	.0	.0	.0	3	.0	.6
TOTAL	12	111	289	82	11	505	7	498
PCT	2.4	22.0	57.2	16.2	2.2	100.0	1.4	98.6

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.6	.0	.8	.0	.0	.0	2.4
1-2	1.4	2.0	.0	.0	.0	.0	3.4
3-4	.0	1.6	.0	.0	.0	.0	1.6
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.0	3.6	.8	.0	.0	.0	7.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.6	.0	.0	.0	.0	.0	1.6
1-2	.2	3.4	.0	.0	.0	.0	3.6
3-4	.0	.8	.0	.0	.0	.0	.8
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.8	4.2	.0	.0	.0	.0	6.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	5.2	.0	.0	.0	.0	5.2
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.2	.0	.0	.0	.0	5.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	1.6	.0	.0	.0	.0	2.4
1-2	1.6	2.0	.8	.0	.0	.0	4.4
3-4	.0	2.0	.0	.0	.0	.0	2.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.4	5.6	.8	.0	.0	.0	8.8

PERIOD: (OVER-ALL) 1963-1972 SEPTEMBER AREA 0007 SARAWAK

TABLE 18 (CONT) 3.6N 111.8E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.8	5.6	.0	.0	.0	.0	6.4
3-4	.8	1.2	.0	.0	.0	.0	2.0
5-6	.0	.0	1.8	.0	.0	.0	1.8
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.6	.0	.0	.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	1.6	7.4	1.8	.0	.0	.0	10.8

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	CT
<1	.2	2.6	.0	.0	.0	.0	.8
1-2	1.0	5.2	2.8	.0	.0	.0	9.0
3-4	.2	4.2	1.8	.0	.0	.0	6.2
5-6	.0	.0	4.6	.0	.0	.0	4.6
7	.0	.0	2.4	.0	.0	.0	2.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.2	.0	.0	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	12.2	11.6	.0	.0	.0	25.2

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	.6	.0	.0	.0	.0	1.8
1-2	.6	5.0	1.2	.0	.0	.0	6.8
3-4	.6	1.4	.6	.0	.0	.0	2.6
5-6	.0	.8	.8	.0	.0	.0	1.6
7	.0	.0	.8	.0	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.4	7.8	3.4	.0	.0	.0	13.6

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.0	.8	.0	.0	.0	.0	1.8	
1-2	.0	1.2	.8	.0	.0	.0	2.0	
3-4	.0	.8	.0	.0	.0	.0	.8	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.0	2.8	.8	.0	.0	.0	4.6	81.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	25.4	5.6	.8	.0	.0	.0	31.7	
1-2	5.6	29.4	5.6	.0	.0	.0	40.5	
3-4	1.6	11.9	2.4	.0	.0	.0	15.9	
5-6	.0	.8	7.1	.0	.0	.0	7.9	
7	.0	.0	3.2	.0	.0	.0	3.2	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.8	.0	.0	.0	.0	.8	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	32.5	48.4	19.0	.0	.0	.0	100.0	126

PERIOD: (OVER-ALL) 1949-1972 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	8.5	30.4	11.3	4.5	1.2	.4	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	141	2
6-7	.0	4.0	6.5	3.6	1.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	4
8-9	.0	.4	.4	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	6
10-11	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	4
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	20.2	2.4	.8	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	59	1
TOTAL	71	92	48	21	6	5	1	3	0	0	0	0	0	0	0	0	0	0	0	247	2
PCT	28.7	37.2	19.4	8.5	2.4	2.0	.4	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1926-1972
(OVER-ALL) 1858-1972

AREA 0007 SARAWAK
3.7N 111.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	NO SIG WEA
N	14.9	.0	.0	.0	.0	.0	.0	14.9	.0	4.0	.0	.0	2.3	.0	78.7
NE	7.3	4.9	.0	.0	.0	.0	.0	12.2	5.5	3.0	.0	.0	.0	.0	80.5
E	8.2	1.2	4.7	.0	.0	.0	.0	14.0	3.5	1.6	.0	.0	.0	.0	80.7
SE	3.9	2.6	6.1	.0	.0	.0	.0	12.7	3.5	1.8	.0	.0	.0	.0	83.8
S	5.4	3.3	.8	.0	.0	.0	.0	9.6	7.5	1.7	.0	.0	2.9	.0	78.3
SW	9.9	6.9	1.8	.0	.0	.0	.0	14.6	2.5	3.0	.9	.0	1.1	.0	77.8
W	2.7	3.2	.0	.0	.0	.0	.0	5.9	1.6	3.9	.0	.0	1.8	.0	86.8
NW	5.9	1.5	.0	.0	.0	.0	.0	7.4	1.5	6.6	.0	.0	.0	.0	84.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7	.0	.0	.0	.0	.0	.0	1.7	.0	5.2	.0	.0	3.4	.0	89.7
TOT PCT	5.7	3.2	1.3	.0	.0	.0	.0	10.2	2.9	3.5	.2	.0	1.3	.0	82.4
TOT OBS:	630														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	NO SIG WEA
00&03	9.6	4.2	1.8	.0	.0	.0	.0	15.6	6.6	.6	.6	.0	.6	.0	76.6
06&09	3.2	1.9	.0	.0	.0	.0	.0	5.1	3.8	.0	.0	.0	1.3	.0	89.8
12&15	3.5	.6	.6	.0	.0	.0	.0	4.7	1.2	5.3	.0	.0	2.3	.0	86.5
18&21	6.8	6.1	2.7	.0	.0	.0	.0	15.6	.0	9.5	.0	.0	.7	.0	74.8
TOT PCT	5.8	3.1	1.2	.0	.0	.0	.0	10.1	3.0	3.7	.2	.0	1.2	.0	82.1
TOT OBS:	642														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.2	6.5	.1	.0	.0	.0		7.8	5.8	4.0	4.8	3.4	6.7	11.3	9.6	12.1	10.7
NE	2.3	8.2	1.2	.0	.0	.0		11.7	6.5	13.2	6.0	12.6	8.3	11.3	9.0	15.4	10.0
E	1.6	4.0	.5	.0	.0	.0		6.1	5.0	8.1	8.9	8.6	4.3	4.0	4.8	5.5	4.0
SE	2.0	4.7	1.1	.0	.0	.0		7.7	6.7	15.2	19.6	6.2	4.7	3.1	4.3	3.1	10.7
S	1.5	5.4	2.1	.1	.1	.0		9.2	8.4	16.1	14.3	10.9	6.7	3.0	7.4	5.7	12.0
SW	3.5	10.0	6.2	.5	.2	.0		19.0	10.1	14.8	29.8	22.7	25.3	16.9	17.0	13.9	23.7
W	2.7	10.5	4.4	.4	.1	.0		18.0	8.6	12.7	4.8	15.4	22.0	26.7	28.7	17.2	13.7
NW	1.9	7.6	.9	.3	.0	.0		10.8	6.8	7.1	7.1	8.1	16.7	12.4	17.0	13.1	8.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.5							9.5	.0	8.7	4.8	12.0	5.3	11.2	2.1	14.1	6.7
TOT OBS	204	468	136	11	3	0	822		7.1	161	42	133	75	161	47	128	75
TOT PCT	24.8	56.9	16.5	1.3	.4	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)							HOUR (GMT)				
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	5.0	2.8	.0	.0	.0		7.8	5.8	4.2	4.6	10.9	11.6
NE	7.1	4.4	.2	.0	.0		11.7	6.5	11.7	11.1	10.8	13.4
E	3.9	2.2	.0	.0	.0		6.1	5.8	8.3	7.1	4.2	4.9
SE	4.0	3.6	.1	.0	.0		7.7	6.7	16.1	9.6	3.4	5.9
S	3.5	5.2	.5	.1	.0		9.2	8.4	15.8	9.4	4.0	8.0
SW	5.9	10.5	2.2	.2	.1		19.0	10.1	17.9	23.7	16.9	17.5
W	8.0	8.2	1.6	.2	.0		18.0	8.6	11.1	17.8	27.2	15.9
NW	6.5	3.7	.6	.0	.0		10.8	6.8	7.1	11.2	13.5	11.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	9.5						9.5	.0	7.9	9.6	9.1	11.3
TOT OBS	440	334	43	4	1	822		7.1	203	208	208	203
TOT PCT	53.5	40.6	5.2	.5	.1		100.0		100.0	100.0	100.0	100.0

OCTOBER

PERIOD: (PRIMARY) 1926-1972
(OVER-ALL) 1858-1972

AREA 0007 SARAWAK
3.7N 111.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	7.9	13.8	57.1	20.2	.5	.5	.0	7.6	100.0	203
06&09	9.6	21.6	52.4	14.4	1.4	.5	.0	6.9	100.0	208
12&15	9.1	13.0	62.0	14.4	1.4	.0	.0	6.8	100.0	208
18&21	11.3	12.8	56.2	17.2	2.0	.5	.0	7.1	100.0	203
TOT	78	126	468	136	11	3	0	7.1		822
PCT	9.5	15.3	56.9	16.5	1.3	.4	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.3	2.1	1.6	2.0		4.8
NE	1.0	3.4	7.6	3.1		5.7
E	.3	2.4	2.7	2.1		5.8
SE	.6	.2	2.9	2.4		6.2
S	.2	1.3	5.9	3.1		6.5
SW	.4	3.1	5.5	5.4		6.2
W	1.7	2.9	9.7	3.7		5.6
NW	1.9	.4	3.6	3.7		5.7
VAR	.0	.0	.0	.0		.0
CALM	2.9	2.9	4.0	2.3		4.5
TOT OBS	36	65	152	97	390	5.7
TOT PCT	10.3	18.6	43.4	27.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	1.4	.6	.0	.0	.0	.3	.0	4.8	
NE	.0	.0	.1	.9	1.7	.6	.9	.0	.0	.0	10.9	
E	.0	.0	.4	1.1	.0	.9	.3	.0	.0	.0	5.3	
SE	.0	.9	.6	.3	.4	.9	.6	.4	.3	.0	2.3	
S	.2	.0	.2	.6	2.1	1.1	.7	.2	.3	.0	5.1	
SW	.4	.0	.9	2.0	3.5	.6	.2	.0	.0	.1	6.6	
W	.3	.0	.0	.9	2.7	2.1	1.0	.0	.2	.2	10.6	
NW	.0	.3	.0	1.5	1.0	.9	.3	.0	.1	.3	5.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.6	1.4	.6	.6	.0	.0	.0	8.9	
TOT OBS	3	2	8	32	47	25	16	2	4	2	209	330
TOT PCT	.9	.6	2.3	9.1	13.4	7.1	4.6	.6	1.1	.6	59.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >500YD	* OR >0
* OR >6500	.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7
* OR >5000	1.7	2.5	2.5	2.5	2.5	2.5	2.5	2.5
* OR >3500	5.9	7.0	7.0	7.0	7.0	7.0	7.0	7.0
* OR >2000	11.8	14.0	14.3	14.3	14.3	14.3	14.3	14.3
* OR >1000	21.6	25.8	27.5	27.5	27.5	27.5	27.5	27.5
* OR >600	26.1	33.7	36.0	36.0	36.0	36.2	36.2	36.2
* OR >300	27.8	35.7	37.9	38.2	38.2	38.5	38.5	38.5
* OR >150	28.1	36.2	38.5	38.8	38.8	39.0	39.0	39.0
* OR > 0	28.1	36.8	39.0	39.6	39.6	39.9	39.9	39.9
TOTAL	100	131	139	141	141	142	142	142

TOTAL NUMBER OF OBS: 356 PCT FREQ NH <5/8: 60.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
4.4	8.6	17.4	15.9	13.0	9.6	10.3	8.1	12.3	.5	408

OCTOBER

PERIOD: (PRIMARY) 1926-1972
(OVER-ALL) 1858-1972

AREA 0007 SARAWAK
3.7N 111.8E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	
	TOT %	.0	.0	.0	.2	.0	.0	.1	.1	.0	.0	.3	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
	PCP	.0	.2	.0	.3	.0	.3	.0	.0	.0	.0	.8	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.2	.0	.3	.0	.3	.0	.0	.0	.0	.8	
	PCP	.3	.0	.0	*	.4	.4	.0	.0	.0	.0	1.1	
2<5	NO PCP	.0	.1	.2	.0	.0	.2	.3	.0	.0	.0	.8	
	TOT %	.3	.1	.2	*	.4	.6	.3	.0	.0	.0	1.9	
	PCP	.3	.6	.8	.2	.2	.7	.6	.3	.0	.0	3.7	
5<10	NO PCP	2.1	2.2	.9	3.1	2.1	4.8	4.8	3.2	.0	1.6	24.8	
	TOT %	2.5	2.8	1.7	3.3	2.3	5.4	5.3	3.5	.0	1.6	28.5	
	PCP	.4	.9	.2	.4	.4	.8	.5	.5	.0	.2	4.1	
10+	NO PCP	3.7	9.1	4.7	4.9	6.5	9.7	11.3	6.7	.0	7.5	64.2	
	TOT %	4.1	10.0	4.9	5.3	6.9	10.4	11.7	7.2	.0	7.6	68.3	
	TOT OBS												628
	TOT PCT	6.9	13.1	6.8	9.1	9.6	17.1	17.5	10.8	.0	9.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.1	.1	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.2	.0	.0	.1	.1	.0	.0	.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.2	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
	0-3	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
1<2	4-10	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	11-21	.0	.2	.0	.0	.0	.3	.0	.0	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	.0	.3	.0	.3	.0	.0	.0	.0	.8	
	0-3	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.3	
2<5	4-10	.3	.0	.0	.2	.2	.2	.3	.0	.0		1.2	
	11-21	.0	.1	.2	*	.2	.4	.0	.0	.0		.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.1	.2	.2	.4	.8	.5	.0	.0	.0	2.4	
	0-3	.3	.0	.5	.8	.0	.3	.2	.7	.0	1.7	4.4	
5<10	4-10	2.3	2.3	1.0	1.8	1.1	2.4	2.9	2.1	.0		15.9	
	11-21	.1	.3	.2	.6	.9	2.3	1.8	.6	.0		6.8	
	22+	.0	.0	.0	.0	.2	.2	.2	.0	.0		.5	
	TOT %	2.7	2.8	1.6	3.1	2.1	5.2	5.0	3.4	.0	1.7	27.5	
	0-3	.8	2.1	1.2	1.6	1.2	.8	1.6	1.7	.0	8.1	19.2	
10+	4-10	3.5	7.2	3.8	3.2	4.4	6.8	6.8	4.7	.0		40.5	
	11-21	.0	.9	.3	.4	1.2	2.8	2.7	.5	.0		8.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.3	.0		.3	
	TOT %	4.4	10.9	5.2	5.1	6.9	10.5	11.2	7.3	.0	8.1	68.9	
	TOT OBS												665
	TOT PCT	7.3	13.2	7.0	8.9	9.5	16.9	16.7	10.8	.0	9.8	100.0	

PERIOD: [illegible] 1958-1972
(OVER-ALL) 1958-1972

AREA 0007 SARAWAK
3.7N 111.8E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >5/8) AND OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00E03	1.0	1.0	5.0	13.0	15.0	9.0	7.0	2.0	3.0	.0	56.0	44.0	100
06E09	1.0	.0	.0	5.0	9.9	6.9	4.0	.0	1.0	1.0	28.7	71.3	101
12E15	.0	.0	3.2	4.2	12.6	5.3	3.2	.0	.0	1.1	29.5	70.5	95
18E21	1.1	1.1	.0	12.2	11.1	5.6	2.2	1.1	.0	.0	34.4	65.6	90
TOT	3	2	8	33	47	26	16	3	4	2	144	242	386
PCT	.8	.5	2.1	8.5	12.2	6.7	4.1	.8	1.0	.5	37.3	62.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	1.2	.6	1.2	3.5	30.2	63.4	172
06E09	.0	.0	.6	.0	19.6	80.0	163
12E15	.0	.0	.0	2.8	33.7	63.5	181
18E21	.6	.0	1.3	3.1	25.0	70.0	160
TOT	3	1	5	16	185	468	678
PCT	.4	.1	.7	2.4	27.3	69.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NM >5/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NM <5/8 AND 5+	TOTAL OBS
00E03	1.1	8.5	23.4	35.1	41.5	94
06E09	1.1	1.1	5.5	25.3	69.2	91
12E15	.0	3.4	10.2	22.7	67.0	88
18E21	1.2	2.4	18.1	19.3	62.7	83
TOT	3	14	51	92	213	356
PCT	.8	3.9	14.3	25.8	59.8	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	.4	.4	.2	.0	3	1.0
85/89	.0	.0	.0	.2	1.0	5.9	3.5	.6	37	11.2
80/84	.0	.0	.0	.0	.4	20.6	41.5	11.2	275	73.7
75/79	.0	.0	.0	.0	.2	.2	2.9	10.4	70	13.8
70/74	.0	.0	.0	.0	.0	.0	.4	.0	2	.4
TOTAL	0	0	0	1	10	138	247	113	509	100.0
PCT	.0	.0	.0	.2	2.0	27.1	48.5	22.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.2	.0	.0	.0	*	.1	.0	.0	.6
	.5	1.2	.5	1.4	.6	1.2	2.4	2.0	.0	1.0
	5.4	10.3	5.0	4.9	6.2	12.5	14.2	7.8	.0	7.3
	.9	1.4	.9	1.9	2.7	3.0	1.7	1.1	.0	.2
	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0
	7.1	13.1	6.6	8.1	9.5	16.8	18.6	11.1	.0	9.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	90	89	86	81	77	75	75	81.4	203
06E09	92	91	89	83	79	77	76	83.3	212
12E15	87	86	84	82	79	77	72	81.7	212
18E21	89	84	83	81	77	76	73	81.1	205
TOT	92	89	86	82	78	76	72	81.9	832

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-89	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	.0	20.3	46.2	33.6	86	143
06E09	.0	.8	8.3	43.8	33.1	14.0	79	121
12E15	.0	.0	.7	25.0	58.3	16.0	83	144
18E21	.0	.0	.0	24.6	52.6	22.8	84	114
TOT	0	1	11	146	250	114	83	522

PERIOD: (PRIMARY) 1926-1972
(OVER-ALL) 1858-1972

AREA 0607 SARAWAK
3.7N 111.8E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.2	1	.0	.2
7/8	.0	.0	.2	.0	.2	2	.0	.3
6	.0	.0	.0	.0	.3	2	.0	.3
5	.0	.0	.2	.2	.7	6	.0	1.0
4	.0	.0	.5	.5	.7	10	.0	1.7
3	.0	.0	.3	.7	.3	8	.0	1.3
2	.0	.0	.8	2.5	.2	21	.0	3.5
1	.0	.0	2.3	3.2	.0	33	.0	5.5
0	.0	.3	10.8	1.2	.0	74	.0	12.3
-1	.0	.2	10.9	.5	.0	70	.0	11.6
-2	.0	2.3	18.4	.5	.0	128	.2	21.1
-3	.0	2.3	11.3	.0	.0	82	.0	13.6
-4	.0	6.1	6.3	.0	.0	75	.0	12.4
-5	.0	3.5	2.0	.0	.0	33	.0	5.5
-6	.2	5.5	.2	.0	.0	35	.0	5.8
-7/-8	.7	2.2	.3	.0	.0	19	.0	3.2
-9/-10	.2	.2	.0	.0	.0	2	.0	.3
-11/-13	.3	.0	.0	.0	.0	2	.0	.3
TOTAL	8	136	389	55	15	603	1	602
PCT	1.3	22.6	64.5	9.1	2.5	100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3
1-2	.5	1.1	.0	.0	.0	.0	1.6
3-4	.0	.7	.0	.0	.0	.0	.7
5-6	.0	.7	.0	.0	.0	.0	.7
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	3.8	.0	.0	.0	.0	4.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.2	1.1	.0	.0	.0	.0	3.2
1-2	1.4	7.6	.0	.0	.0	.0	9.2
3-4	.0	1.4	.7	.0	.0	.0	2.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.8	10.1	.7	.0	.0	.0	14.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.9	.5	.0	.0	.0	.0	3.4
1-2	.0	.7	.0	.0	.0	.0	.7
3-4	.0	.7	.0	.0	.0	.0	.7
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.9	2.0	.0	.0	.0	.0	4.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	.0	.0	.0	.0	.0	.9
1-2	.7	1.4	.2	.0	.0	.0	2.3
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.7	.0	.0	.0	.7
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	1.4	.9	.0	.0	.0	4.0

PERIOD: (OVER-ALL) 1963-1972

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TABLE 18 (CONT)

AREA 0007 SARAWAK
3.7N 111.8E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.7	.0	.0	.0	.0	1.3	1.4	.0	.2	.0	.0	.0	1.8
1-2	.0	7.9	1.8	.0	.0	.0	9.7	.0	5.2	3.8	.0	.0	.0	9.0
3-4	.0	.7	.7	.0	.0	.0	1.4	.0	2.2	.7	.0	.0	.0	2.9
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.5
7	.0	.0	.5	.0	.0	.0	.5	.0	.0	2.5	.0	.0	.0	2.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.2	.7	.0	.0	.0	.9
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	9.4	3.1	.0	.0	.0	12.9	1.6	7.6	8.5	.0	.0	.0	17.6

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	2.0	2.2	.5	.0	.0	.0	4.7	.0	1.4	.0	.0	.0	.0	1.4	
1-2	.0	9.5	.7	.0	.0	.0	10.3	.7	4.7	.0	.0	.0	.0	5.4	
3-4	.0	2.0	1.4	.0	.0	.0	3.4	.0	.9	.0	.0	.0	.0	.9	
5-6	.0	.7	1.6	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.5	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.0	14.9	4.9	.0	.0	.0	21.8	.7	7.0	.0	.0	.0	.0	7.7	87.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	23.4	7.1	.7	.0	.0	.0	31.2	
1-2	3.5	37.6	6.4	.0	.0	.0	47.5	
3-4	.0	8.5	3.5	.0	.0	.0	12.1	
5-6	.0	1.4	2.8	.0	.0	.0	4.3	
7	.0	.0	3.5	.0	.0	.0	3.5	
8-9	.0	.7	.7	.0	.0	.0	1.4	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	27.0	55.3	17.7	.0	.0	.0	100.0	141

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	12.5	29.4	19.8	2.3	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	185	2
6-7	.0	3.3	6.9	4.3	1.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	49	4
8-9	.0	.0	2.0	2.3	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	5
10-11	.0	.3	.0	.3	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	8
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	11.2	2.3	1.7	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	49	1
TOTAL	72	107	80	31	10	2	1	0	0	0	0	0	0	0	0	0	0	0	0	303	2
PCT	23.8	35.3	26.4	10.2	3.3	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1928-1972
(OVER-ALL) 1882-1972

AREA 0007 SARAWAK
3.7N 111.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
N	7.5	2.8	2.2	.0	.0	.0	.0	12.6	1.0	4.7	.8	.0	.0		.0	82.6
NE	5.1	1.8	.2	.0	.0	.0	.0	7.0	1.4	1.4	.0	.0	.7		.0	89.4
E	9.9	3.6	1.8	.0	.0	.0	.0	15.3	1.4	3.1	.0	.0	.0		.0	77.9
SE	11.9	4.1	.0	.0	.0	.0	.0	16.0	2.6	1.5	.0	.0	.0		.0	80.9
S	18.1	1.3	1.3	.0	.0	.0	.0	19.5	3.7	3.7	.0	.0	.0		.0	73.2
SW	15.1	6.0	1.7	.0	.0	.0	.0	22.8	3.9	2.6	.0	.0	1.7		.0	69.0
W	13.4	2.9	1.5	.0	.0	.0	.0	17.8	3.4	1.5	.0	.0	.4		.0	76.8
NW	11.0	1.8	.8	.0	.0	.0	.0	13.6	.0	2.6	.0	.0	.4		.0	83.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
CALM	4.1	2.0	.0	.0	.0	.0	.0	6.1	.0	4.1	.0	.0	.0		.0	89.8
TOT PCT	10.6	2.9	1.2	.0	.0	.0	.0	14.6	2.0	3.0	.1	.0	.5		.0	80.3
TOT OBS:	864															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
00&03	14.2	4.6	1.7	.0	.0	.0	.0	20.0	2.9	1.3	.0	.0	.4		.0	75.8
06&09	4.2	1.4	1.4	.0	.0	.0	.0	7.0	4.7	.9	.0	.0	.5		.0	87.0
12&15	6.6	1.8	.9	.0	.0	.0	.0	9.3	.0	5.3	.4	.0	.0		.0	85.9
18&21	17.8	4.6	.5	.0	.0	.0	.0	22.8	.5	5.1	.0	.0	1.0		.0	71.1
TOT PCT	10.6	3.1	1.1	.0	.0	.0	.0	14.7	2.0	3.1	.1	.0	.9		.0	80.1
TOT OBS:	879															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	3.1	9.3	1.5	*	.0	.0		13.9	6.3	10.0	8.2	9.6	18.5	15.5	25.3	12.1	15.4
NE	4.2	10.5	1.5	.0	.0	.0		16.1	6.2	16.7	16.3	14.2	16.4	16.5	17.9	17.1	14.3
E	1.9	4.4	.5	.1	.0	.0		7.0	5.6	11.6	10.0	7.0	3.4	4.3	5.3	6.3	6.3
SE	1.2	3.8	.4	.0	.0	.0		5.3	6.1	8.0	8.4	5.6	2.7	2.0	4.7	3.2	8.3
S	1.3	5.4	1.8	.1	.0	.0		8.5	8.0	14.2	15.3	13.0	3.4	4.0	4.2	4.0	9.0
SW	.9	8.6	3.5	.1	.0	.0		13.0	8.8	16.8	16.1	16.2	10.9	9.9	6.3	15.1	11.0
W	1.7	9.8	2.5	.1	.0	.0		14.0	7.6	8.0	11.3	11.7	16.4	22.2	15.3	13.5	11.6
NW	2.8	9.8	1.3	.0	.1	.0		14.0	6.8	6.0	10.3	13.7	21.4	16.1	18.9	14.5	14.5
VAR	.0	.1	.0	.0	.0	.0		.1	5.0	.0	.0	.0	.0	.0	.0	.6	.0
CALM	8.0							8.0	.0	8.6	4.2	8.1	5.9	9.7	2.1	11.5	9.6
TOT OBS	273	672	141	9	1	0	1092		6.4	187	95	148	131	176	95	124	136
TOT PCT	25.0	61.5	12.9	.8	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	9.3	4.3	.3	*	.0		13.9	6.3	9.4	13.8	18.9	13.8
NE	10.4	5.5	.3	.0	.0		16.1	6.2	16.6	15.2	17.0	15.7
E	5.2	1.7	.1	.0	.0		7.0	5.6	11.1	5.8	4.6	6.3
SE	3.3	2.0	.0	.0	.0		5.3	6.1	8.2	4.2	3.0	5.9
S	3.5	4.8	.2	.0	.0		8.5	8.0	14.5	3.5	4.1	6.6
SW	4.5	8.1	.4	.0	.0		13.0	8.8	16.6	13.7	8.7	13.0
W	7.1	6.5	.5	.0	.0		14.0	7.6	9.1	13.9	19.7	13.5
NW	8.3	5.3	.3	*	.1		14.0	6.8	7.4	17.3	17.1	14.5
VAR	.1	.0	.0	.0	.0		.1	5.0	.0	.0	.0	.4
CALM	8.0						8.0	.0	7.1	7.5	7.0	10.4
TOT OBS	651	417	22	1	1	1092		6.4	282	279	271	260
TOT PCT	59.6	38.2	2.0	.1	.1		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1928-1972
(OVER-ALL) 1882-1972

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	7.1	17.0	57.6	15.6	.7	.0	.0	6.9	100.0	282
06&09	7.5	16.8	60.6	14.7	.0	.4	.0	6.4	100.0	279
12&15	7.0	16.2	64.9	11.4	.4	.0	.0	6.5	100.0	271
18&21	10.4	18.1	61.2	9.6	.8	.0	.0	5.9	100.0	260
TOT	87	186	672	141	5	1	0	6.4		1092
PCT	8.0	17.0	61.5	12.9	.5	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.4	3.0	3.1	3.6		5.3
NE	1.4	5.1	9.1	7.4		5.3
E	.0	1.9	3.7	.0		5.4
SE	.0	.2	2.0	1.5		6.8
S	.3	.9	4.0	3.4		6.7
SW	.5	2.2	7.1	5.9		6.4
W	1.7	3.7	6.1	4.3		5.6
NW	.6	1.3	5.7	5.2		6.5
VAR	.0	.0	.0	.0		.0
CALM	2.6	1.8	2.0	1.3		4.1
TOT OBS	33	79	168	112	392	5.8
TOT PCT	8.4	20.2	42.9	28.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT.)NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.4	1.3	1.5	.4	.0	.0	.0	.0	7.4	
NE	.3	.0	.6	1.5	3.7	.8	.8	.0	.0	.1	10.4	
E	.0	.0	.0	.7	1.3	.4	.0	.0	.0	.4	3.6	
SE	.0	.0	.6	.3	1.4	.3	.3	.0	.0	.0	.9	
S	.0	.0	.2	1.2	2.4	.4	.5	.0	.3	.0	3.6	
SW	.0	.0	.3	3.3	2.9	1.1	.3	.0	.3	.0	7.7	
W	.2	.0	.0	2.0	1.9	1.2	.8	.0	.0	.0	9.6	
NW	.3	.0	.6	2.0	1.4	.6	.5	.0	.0	.0	7.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.3	.3	.8	.0	.0	.0	.0	.0	6.4	
TOT OBS	3	0	11	49	68	21	12	1	1	2	224	392
TOT PCT	.8	.0	2.8	12.5	17.3	5.4	3.1	.3	.3	.5	57.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) • OR >10	• OR >5	• OR >2	• OR >1	• OR >1/2	• OR >1/4	• OR >500YD	• OR >0
• OR >6500	.7	.7	.7	.7	.7	.7	.7	.7
• OR >5000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
• OR >3500	2.7	3.7	4.0	4.0	4.0	4.0	4.0	4.0
• OR >2000	7.0	9.0	9.2	9.2	9.2	9.2	9.2	9.2
• OR >1000	17.5	24.2	25.4	26.2	26.2	26.2	26.2	26.2
• OR >600	23.4	32.9	36.7	38.4	38.4	38.7	38.7	38.7
• OR >300	24.2	34.9	38.9	41.6	41.6	41.9	41.9	41.9
• OR >150	24.2	34.9	38.9	41.6	41.6	41.9	41.9	41.9
• OR > 0	24.2	34.9	39.7	42.4	42.4	42.6	42.6	42.6
TOTAL	97	140	159	170	170	171	171	171

TOTAL NUMBER OF OBS: 401 PCT FREQ NH <5/8: 57.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
2.7	7.2	16.9	17.8	12.6	9.0	11.2	10.6	11.5 .7	445

NOVEMBER

PERIOD: (PRIMARY) 1928-1972
(OVER-ALL) 1882-1972

AREA 0007 SARAWAK
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
1<2	PCP	.3	.3	.2	*	.2	.3	.3	.2	.0	.1	1.9	
	NO PCP	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.1	
	TOT %	.3	.3	.2	*	.2	.3	.3	.2	.0	.1	2.0	
2<5	PCP	.2	.3	.1	.1	.1	.3	.3	.3	.0	.1	2.5	
	NO PCP	.1	.4	.0	*	.3	.4	.3	.3	.0	.0	1.9	
	TOT %	.3	.6	.1	.1	.4	.9	1.3	.7	.0	.1	4.4	
5<10	PCP	1.3	.4	.5	.5	1.0	2.1	1.0	1.3	.0	.1	8.3	
	NO PCP	5.1	3.6	1.2	2.3	1.9	2.9	4.0	4.3	.0	.9	26.4	
	TOT %	6.4	4.1	1.8	2.9	2.9	5.0	5.0	5.6	.0	1.0	34.7	
10+	PCP	.1	.2	.2	.2	.3	.2	.3	.2	.0	.0	1.9	
	NO PCP	7.2	10.9	4.1	2.3	4.8	7.1	9.0	7.9	.1	4.4	56.8	
	TOT %	7.3	11.1	4.3	2.5	5.1	7.2	8.5	8.2	.1	4.4	58.7	
	TOT OBS												864
	TOT PCT	14.3	16.0	5.4	5.6	8.6	13.8	15.1	14.7	.1	5.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.2	.0	.0	.0	.0	.0	.2	.0		.5	
	11-21	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.2	.1	.0	.0	.0	.0	.2	.0	.0	.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.1	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
1<2	0-3	.0	.1	.1	.0	.0	.0	.1	.1	.0	.1	.3	
	4-10	.4	.2	.2	.0	.1	.0	.1	*	.0		1.0	
	11-21	.0	.0	.0	*	.1	.2	.1	.1	.0		.5	
	22+	.0	.0	.0	.0	.0	.1	.0	.0	.0		.1	
	TOT %	.4	.2	.2	*	.2	.3	.3	.2	.0	.1	1.9	
2<5	0-3	.0	.2	.0	.0	.0	.1	.2	.2	.0	.3	1.1	
	4-10	.2	.2	.2	.1	.1	.3	.6	.6	.0		2.3	
	11-21	.2	.1	.0	.1	.3	.5	.6	.1	.0		1.9	
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0		.1	
	TOT %	.4	.6	.2	.1	.5	.9	1.4	.9	.0	.3	5.4	
5<10	0-3	1.8	1.2	.5	.5	.2	.3	1.0	1.3	.0	1.0	7.9	
	4-10	3.7	2.2	1.1	1.9	1.8	3.4	3.1	3.7	.0		20.9	
	11-21	.4	.4	.1	.3	.7	1.1	.6	.4	.0		3.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	6.0	3.8	1.6	2.7	2.7	4.7	4.7	5.4	.0	1.0	32.7	
10+	0-3	1.3	3.1	1.4	.9	1.2	.6	.6	1.3	.0	5.8	16.2	
	4-10	5.2	6.3	2.5	1.9	3.1	4.8	6.3	5.8	.1		36.1	
	11-21	.8	1.0	.4	.0	.8	1.6	1.2	.9	.0		6.8	
	22+	.0	.0	.1	.0	.0	.0	.1	.0	.0		.2	
	TOT %	7.4	10.4	4.4	2.8	5.1	7.1	8.2	8.0	.1	5.8	59.3	
	TOT OBS												928
	TOT PCT	14.3	15.2	6.6	5.7	8.5	13.0	14.6	14.8	.1	7.2	100.0	

PERIOD: (PRIMARY) 1928-1972
(OVFL-ALL) 1882-1972

TABLE 10

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PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00803	.0	.0	5.6	15.3	21.8	5.6	4.8	.8	.0	.8	54.8	45.2	124
06809	.0	.0	2.8	12.1	12.1	5.6	1.9	.0	.9	.0	35.5	64.5	107
12815	.9	.0	.0	6.5	14.0	5.6	2.8	.0	.0	.9	30.8	69.2	107
18821	2.3	.0	3.4	12.6	14.9	2.3	1.1	.0	.0	.0	36.8	63.2	87
TOT	3	0	13	30	68	21	13	1	1	2	174	254	425
PCT	.7	.0	3.1	11.8	16.0	4.9	3.3	.2	.2	.5	40.2	59.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (MI) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00803	.8	.4	.8	4.8	35.3	57.8	749
06809	.4	.0	1.3	2.1	26.5	67.7	235
12815	.4	.0	.8	5.8	32.9	60.0	240
18821	.9	.0	3.5	9.1	32.9	51.6	219
TOT	6	1	19	51	306	560	943
PCT	.6	.1	2.0	5.4	32.4	59.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <3OYD	<600 <1	<1000 <3	1000+ AND3+	NH <5/8 AND 3+	TOTAL OBS
00803	.0	6.6	24.0	39.2	43.8	121
06809	.0	3.0	16.8	20.8	62.4	101
12815	1.0	1.0	10.0	24.0	66.0	100
18821	2.5	6.3	24.1	16.5	59.3	79
TOT	3	17	75	97	219	401
PCT	.7	4.2	18.7	24.2	97.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.2	.6	.0	.0	4	.8
85/89	.0	.0	.0	.0	.6	5.2	2.6	1.4	49	9.8
80/84	.0	.0	.0	.0	1.0	17.9	36.1	14.3	345	69.3
75/79	.0	.0	.0	.0	.0	.8	6.4	12.9	100	20.1
TOTAL	0	0	0	0	9	122	225	142	498	100.0
PCT	.0	.0	.0	.0	1.8	24.5	45.2	28.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.4	.3	.0	.0	.0	.0	.0	.2	.0	.0
1.0	1.5	.6	.5	.6	1.3	1.2	2.6	.0	.8
9.5	11.2	4.6	3.6	4.3	9.6	10.6	10.2	.0	5.6
1.9	2.2	.9	2.0	2.7	4.4	3.4	2.0	.2	.6
12.7	15.1	6.0	6.1	7.5	15.4	15.1	15.0	.2	7.0

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GKT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00803	89	88	85	81	77	75	72	81.0	271
06809	94	90	88	82	77	75	72	82.6	295
12815	88	86	84	81	77	75	73	81.2	267
18821	85	84	83	81	78	75	73	80.2	265
TOT	94	88	85	81	77	75	72	81.2	1058

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00803	.0	.0	.0	22.1	46.2	31.7	83	149
06809	.0	.0	7.5	43.5	34.9	15.1	80	106
12815	.0	.0	3.4	20.4	54.9	23.2	84	142
18821	.0	.0	.0	17.9	39.3	42.7	87	117
TOT	0	0	10	127	228	145	84	510

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PERIOD: (PRIMARY) 1928-1972
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
≤1/13	.0	.0	.0	.1	.0	.0	.0	1	.0	.1
7/8	.0	.0	.0	.0	.0	.1	.1	2	.0	.3
5	.0	.0	.0	.1	.0	.3	.0	3	.0	.4
4	.0	.0	.0	.3	.5	.9	.0	8	.0	1.0
3	.0	.0	.0	.1	.6	.3	.0	8	.0	1.0
2	.0	.0	.0	2.6	2.6	.1	.0	41	.0	5.3
1	.0	.0	.1	1.6	.9	.0	.0	20	.0	2.6
0	.0	.0	.6	10.9	1.9	.0	.0	104	.0	13.5
-1	.0	.0	.8	5.7	.5	.0	.0	56	.0	7.0
-2	.0	.1	3.8	19.8	.4	.0	.0	186	.1	24.0
-3	.0	.0	2.7	5.2	.3	.0	.0	63	.0	8.2
-4	.0	.4	9.6	8.7	.0	.0	.0	144	.0	18.7
-5	.1	.4	6.7	1.0	.0	.0	.0	64	.0	8.3
-6	.0	.3	3.1	.3	.0	.0	.0	30	.0	3.9
-7/-8	.1	1.9	2.5	.3	.0	.0	.0	37	.0	4.8
-9/-10	.0	.3	.4	.0	.0	.0	.0	5	.0	.6
-11/-13	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2	39	234	437	60	8	1	771	1	770
PCT	.3	5.1	30.4	56.7	7.8	1.0	.1	100.0	.1	99.9

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.9	.0	.0	.0	.0	2.5
1-2	.0	4.5	.0	.0	.0	.0	4.5
3-4	.0	.9	.6	.0	.0	.0	1.6
5-6	.0	.5	1.1	.0	.0	.0	1.6
7	.0	.0	.6	.0	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.5	.0	.0	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	8.2	2.3	.0	.0	.0	11.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	1.9	.0	.0	.0	.0	2.6
1-2	2.7	5.6	.6	.0	.0	.0	8.7
3-4	.0	5.4	2.5	.0	.0	.0	7.9
5-6	.0	.2	1.2	.0	.0	.0	1.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.2	.0	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.3	13.2	4.3	.0	.0	.0	20.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	.0	0	.0	.0	.0	1.1
1-2	.6	1.1	.6	.0	.0	.0	2.3
3-4	.0	1.6	.0	.0	.0	.0	1.6
5-6	.0	1.1	1.2	.0	.0	.0	2.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	3.7	1.9	.0	.0	.0	7.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	.0	.0	.0	.0	.0	.8
1-2	.9	.6	.0	.0	.0	.0	1.6
3-4	.0	.8	.0	.0	.0	.0	.8
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	1.4	.0	.0	.0	.0	3.1

PERIOD: (OVER-ALL) 1963-1972 NOVEMBER AREA 0007 SARAWAK

TABLE 18 (CONT) 3.7N 111.8E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	.6	.0	.0	.0	.0	1.7
1-2	.9	1.9	.6	.0	.0	.0	3.4
3-4	.0	2.2	.0	.0	.0	.0	2.2
5-6	.0	.6	.0	.0	.0	.0	.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.0	5.3	.6	.0	.0	.0	7.9

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6
1-2	.0	6.5	.8	.0	.0	.0	7.3
3-4	.6	1.1	1.4	.0	.0	.0	3.1
5-6	.0	1.2	2.5	.0	.0	.0	3.7
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	9.5	4.7	.0	.0	.0	14.8

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.2	.6	.0	.0	.0	2.5
1-2	.0	5.7	2.3	.0	.0	.0	8.1
3-4	.0	1.6	1.1	.0	.0	.0	2.6
5-6	.0	.6	.5	.0	.0	.0	1.1
7	.0	.6	.6	.6	.0	.0	1.9
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	9.8	5.1	.6	.0	.0	16.1

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	.0	.0	.0	.0	.0	1.2
1-2	1.9	3.3	.6	.0	.0	.0	5.7
3-4	.0	1.4	1.2	.0	.0	.0	2.6
5-6	.0	.2	.9	.0	.0	.0	1.1
7	.0	.0	1.2	.0	.0	.0	1.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.1	4.8	4.0	.0	.0	.0	12.0

HGT	TOTAL PCT
<1	1.2
1-2	5.7
3-4	2.6
5-6	1.1
7	1.2
8-9	.0
10-11	.0
12	.0
13-16	.0
17-19	.0
20-22	.0
23-25	.0
26-32	.0
33-40	.0
41-48	.0
49-60	.0
61-70	.0
71-86	.0
87+	.0
TOT PCT	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	13.5	6.1	.6	.0	.0	.0	20.2	
1-2	6.7	29.4	5.5	.0	.0	.0	41.7	
3-4	.6	14.7	6.7	.0	.0	.0	22.1	
5-6	.0	4.3	7.4	.0	.0	.0	11.7	
7	.0	.6	2.5	.6	.0	.6	3.7	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.6	.0	.0	.0	.0	.6	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	20.9	55.8	22.7	.6	.0	.0	100.0	163

PERIOD: (OVER-ALL) 1949-1972 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.8	22.3	15.4	4.1	1.6	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	148	3
6-7	.3	6.0	13.8	8.8	1.9	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100	4
8-9	.0	.0	1.3	5.0	2.8	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31	6
10-11	.0	.3	.6	.3	.9	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	5
12-13	.0	.0	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	4
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	6.3	2.2	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	1
TOTAL	30	98	103	59	23	5	1	0	0	0	0	0	0	0	0	0	0	0	0	319	3
PCT	9.4	30.7	32.3	18.5	7.2	1.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1933-1972
(OVER-ALL) 1874-1972

AREA 0007 SARAWAK
3.7N 111.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	5.6	1.9	.0	.0	.0	.0	.0	7.5	4.1	1.5	.2	.0	.0		.0	86.7
NE	8.1	5.2	.7	.0	.0	.0	.0	13.6	3.5	1.7	.2	.0	.4		.0	80.6
E	8.5	7.3	.0	.0	.0	.0	.0	15.8	8.5	.0	.0	.0	.0		.0	75.7
SE	16.4	.0	.0	.0	.0	.0	.0	16.4	.9	.0	.0	.0	.0		.0	82.7
S	19.6	.0	.0	.0	.0	.0	.0	19.6	5.6	.0	.0	.0	.0		.0	74.8
SW	13.3	4.8	2.4	.0	.0	.0	.0	20.5	3.0	.0	.0	.0	.0		.0	76.5
W	6.4	3.7	4.3	.0	.0	.0	.0	12.2	7.4	.0	.0	.0	.0		.0	80.3
NW	13.4	.3	3.3	.0	.0	.0	.0	15.8	4.9	2.7	.0	.0	1.1		.0	75.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	13.2	.0	.0	.0	.0	.0	.0	13.2	.0	2.6	.0	.0	.0		.0	84.2
TOT PCT	9.3	3.1	1.0	.0	.0	.0	.0	13.1	4.1	1.4	.1	.0	.3		.0	81.0
TOT OBS:	796															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	13.9	3.8	2.4	.0	.0	.0	.0	19.2	5.3	1.0	.0	.0	.5		.0	74.0
06&09	8.2	3.6	1.0	.0	.0	.0	.0	11.8	5.1	.0	.0	.0	.0		.0	83.1
12&15	4.5	1.5	.5	.0	.0	.0	.0	6.5	2.5	1.5	.5	.0	.5		.0	88.5
18&21	10.0	4.7	.5	.0	.0	.0	.0	15.2	4.3	2.8	.0	.0	.0		.0	77.7
TOT PCT	9.2	3.4	1.1	.0	.0	.0	.0	13.3	4.3	1.4	.1	.0	.2		.0	80.7
TOT OBS:	814															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.6	13.8	7.1	1.8	.1	.0		24.4	10.8	16.6	26.7	15.9	30.8	23.1	40.9	25.0	28.4
NE	3.0	17.3	11.6	1.8	.3	.0		34.0	10.6	34.2	31.1	29.2	28.4	35.2	36.5	41.0	34.9
E	.8	3.7	1.5	.0	.0	.0		5.9	8.4	8.4	9.3	10.3	4.5	2.5	6.2	1.6	6.0
SE	.7	3.1	.2	.0	.0	.0		4.0	6.2	6.4	6.4	6.9	1.7	.6	1.2	1.2	7.8
S	.6	2.1	1.4	.0	.0	.0		4.1	8.7	6.8	6.4	7.5	1.7	1.6	.6	3.3	3.2
SW	.7	2.8	1.1	.2	.0	.0		4.8	8.4	5.3	4.1	9.8	3.4	3.4	1.2	4.2	4.5
W	.6	3.6	1.0	.1	.2	.0		5.4	9.3	4.5	2.3	5.3	8.3	9.1	4.1	6.8	.0
NW	1.4	6.8	2.9	.8	*	.0		11.9	9.5	10.3	11.3	10.0	14.3	17.2	8.2	11.3	10.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.4							5.4	.0	7.5	2.3	5.0	6.8	7.2	1.2	5.6	4.3
TOT OBS	157	367	285	49	7	0	1065		9.4	173	86	160	117	167	85	161	116
TOT PCT	14.7	53.2	26.8	4.6	.7	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	7.3	12.3	4.3	.5	.0		24.4	10.8	20.0	22.2	29.1	26.4
NE	9.7	19.3	4.2	.7	.0		34.0	10.6	33.2	28.9	35.6	38.4
E	2.7	2.9	.4	.0	.0		5.9	8.4	8.7	7.9	3.8	3.4
SE	2.3	1.5	.0	.0	.0		4.0	6.2	6.4	4.7	.8	4.0
S	1.6	2.2	.3	.0	.0		4.1	8.7	6.7	5.1	1.3	3.2
SW	2.2	2.3	.3	.0	.0		4.8	8.4	4.9	7.1	2.7	4.3
W	1.9	3.1	.2	.2	.0		5.4	9.3	3.8	8.6	7.4	4.0
NW	4.1	6.4	1.4	*	.0		11.9	9.5	10.6	11.8	14.2	11.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.4						5.4	.0	5.8	5.8	5.2	5.1
TOT OBS	398	533	119	15	0	1065		9.4	259	277	292	277
TOT PCT	37.4	50.0	11.2	1.4	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1939-1972
(OVER-ALL) 1874-1972

AREA 0007 SARAWAK
3.7N 111.7E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	5.8	8.5	52.1	27.0	5.4	1.2	.0	9.6	100.0	259
06&09	5.8	13.0	52.0	24.5	4.3	.4	.0	8.7	100.0	277
12&15	5.2	5.2	59.5	26.2	4.0	.0	.0	9.5	100.0	252
18&21	5.1	10.1	49.8	29.2	4.7	1.1	.0	9.7	100.0	277
TOT	58	99	507	285	49	7	0	9.4		1065
PCT	5.4	9.3	53.2	26.8	4.6	.7	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.1	4.7	7.6	7.1		5.6
NE	3.1	7.7	15.1	8.8		5.6
E	.5	.3	3.1	1.9		6.3
SE	*	.2	1.4	1.3		6.7
S	.1	1.2	1.9	2.1		6.2
SW	.1	.2	3.1	2.4		6.7
W	.5	1.1	2.9	2.3		6.1
NW	.4	1.0	4.9	4.4		6.4
VAR	.0	.0	.0	.0		.0
CALM	1.2	1.8	1.8	1.6		5.0
TOT OBS	41	92	211	162	506	5.9
TOT PCT	8.1	18.2	41.7	32.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.2	1.6	4.6	2.7	.0	.0	.0	.0	12.5	
NE	.4	.0	.4	3.7	6.0	2.2	.9	.4	.0	.0	20.8	
E	.0	.0	.1	1.1	.7	.5	.0	.0	.2	.0	3.1	
SE	.2	.0	.0	.0	.6	.0	.3	.0	.0	.0	1.9	
S	.0	.0	.4	.3	1.0	.4	.3	.1	.0	.0	2.8	
SW	.0	.0	.0	.8	2.2	.6	.3	*	.0	.0	1.8	
W	.0	.0	.0	.7	2.1	1.0	.3	.1	.0	.0	2.5	
NW	.0	.0	.6	2.0	2.7	.5	.2	.4	.0	.0	4.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.4	.0	1.0	.6	.0	.0	.0	.0	4.2	
TOT OBS	4	0	11	52	106	44	11	6	1	0	271	506
TOT PCT	.8	.0	2.2	10.3	20.9	8.7	2.2	1.2	.2	.0	53.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.2	.2	.2	.2	.2	.2	.2
* OR >5000	.8	1.2	1.2	1.2	1.2	1.2	1.2	1.2
* OR >3500	1.7	3.1	3.1	3.1	3.3	3.3	3.3	3.3
* OR >2000	7.3	11.6	12.1	12.1	12.3	12.3	12.3	12.3
* OR >1000	19.7	30.3	32.6	32.6	33.1	33.1	33.1	33.1
* OR >600	24.1	39.1	42.2	42.6	43.4	43.4	43.4	43.4
* OR >300	25.2	40.8	44.1	44.5	45.5	45.5	45.5	45.5
* OR >150	25.2	40.8	44.1	44.5	45.5	45.5	45.5	45.5
* OR > 0	25.6	41.2	44.7	45.1	46.1	46.1	46.1	46.1
TOTAL	133	214	232	234	239	239	239	239

TOTAL NUMBER OF OBS: 519 PCT FREQ NH <5/8: 54.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
2.0	4.2	17.8	15.8	11.5	9.5	10.7	6.9	16.9	.7	550

DECEMBER

PERIOD: (PRIMARY) 1939-1972
(OVER-ALL) 1874-1972

AREA 0007 SARAWAK
3.7N 111.7E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
1/2<1	PCP	.0	.1	.1	.0	.1	.1	.1	.0	.0	.0	.6	
	NO PCP	.0	.1	.1	.0	.1	*	.0	.0	.0	.0	.3	
	TOT %	.0	.2	.2	.0	.2	.2	.1	.0	.0	.0	.9	
1<2	PCP	.1	.3	.1	.0	.0	.1	.1	.2	.0	.0	.9	
	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.4	.1	.0	.0	.1	.1	.2	.0	.0	1.0	
2<5	PCP	.9	.6	.0	.3	.1	.4	.1	.3	.0	.1	3.1	
	NO PCP	.1	.3	.2	.1	.1	.0	.1	*	.0	.0	1.0	
	TOT %	1.0	1.2	.2	.4	.2	.4	.2	.4	.0	.1	4.1	
5<10	PCP	.4	1.9	.5	.3	.4	.1	.3	.4	.0	.0	4.4	
	NO PCP	7.5	7.7	1.4	.7	.6	1.4	1.1	3.0	.0	.4	23.7	
	TOT %	7.9	9.6	1.9	1.0	1.0	1.5	1.4	3.4	.0	.4	28.1	
10+	PCP	.4	1.4	.1	.0	.3	.3	.1	.8	.0	.5	3.9	
	NO PCP	15.8	21.1	3.0	2.0	2.8	2.7	4.0	6.6	.0	3.8	61.8	
	TOT %	16.2	22.5	3.1	2.0	3.1	3.0	4.1	7.4	.0	4.3	65.7	
	TOT OBS												796
	TOT PCT	25.3	33.8	5.6	3.5	4.5	5.2	5.9	11.5	.0	4.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.1	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.2	.1	.0	.1	*	.1	.0	.0		.5	
	11-21	.0	.0	.1	.0	.1	.1	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	.2	.0	.2	.1	.0	.0	.0	.0	.8	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.3	.0	.0	.0	.1	.1	.1	.0		.6	
	11-21	.1	.0	.1	.0	.0	.0	.0	.1	.0		.3	
	22+	.0	.5	.0	.0	.0	.0	.0	.0	.0		.5	
	TOT %	.1	.8	.1	.0	.0	.1	.1	.2	.0	.0	1.4	
2<5	0-3	.1	.0	.0	.0	.1	.0	.1	*	.0	.1	.5	
	4-10	.8	.9	.2	.3	.0	.2	.2	.3	.0		2.9	
	11-21	.6	.6	.1	.0	.1	.2	.0	.2	.0		1.7	
	22+	.1	.2	.0	.0	.0	.0	.0	.0	.0		.3	
	TOT %	1.6	1.7	.3	.3	.2	.4	.3	.5	.0	.1	5.5	
5<10	0-3	.4	.8	.1	.1	.1	.2	.0	.3	.0	.3	2.3	
	4-10	2.7	3.3	1.0	.7	.8	1.0	.9	2.1	.0		12.2	
	11-21	3.7	4.3	.6	.2	.4	.2	.2	.3	.0		9.9	
	22+	.8	.8	.0	.0	.0	.1	.2	.3	.0		2.3	
	TOT %	7.6	9.2	1.7	1.0	.9	1.5	1.3	3.2	.1	.3	26.7	
10+	0-3	1.0	2.6	.5	.3	.6	.6	.4	1.3	.0	4.4	11.6	
	4-10	11.0	11.8	1.9	1.9	1.6	1.7	2.7	3.8	.0		36.4	
	11-21	3.0	7.2	.6	.0	.9	.7	.8	2.4	.0		15.8	
	22+	.7	.7	.0	.0	.0	.0	.1	.1	.0		1.6	
	TOT %	15.7	22.2	3.1	2.3	3.1	3.0	4.0	7.6	.0	4.4	65.3	
	TOT OBS												860
	TOT PCT	29.0	34.1	5.5	3.6	4.4	5.2	5.8	11.6	.0	4.9	100.0	

DECEMBER

PERIOD: (PRIMARY) 1939-1972
(OVER-ALL) 1874-1972

AREA 0007 SARAWAK
3.7N 111.7E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.7	.0	2.9	11.4	24.3	7.1	3.6	1.4	.7	.0	52.1	47.9	140
06E09	.0	.0	1.5	6.1	23.5	13.6	.8	2.3	.0	.0	47.7	52.3	132
12E15	.8	.0	2.3	9.2	16.2	7.7	1.5	.8	.0	.0	38.5	61.5	130
18E21	1.5	.0	1.5	12.9	16.7	6.8	2.3	.0	.0	.0	41.7	58.3	132
TOT	4	0	11	53	108	47	11	6	1	0	241	293	534
PCT	.7	.0	2.1	9.9	20.2	8.8	2.1	1.1	.2	.0	45.1	54.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.5	1.8	1.8	5.0	27.4	63.5	219
06E09	.0	.0	.9	6.9	22.0	70.2	218
12E15	.0	.5	.9	5.2	27.8	65.6	212
18E21	.0	.9	2.6	5.2	28.8	62.4	229
TOT	1	7	14	49	233	574	878
PCT	.1	.8	1.6	5.6	26.5	65.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	4.4	20.0	34.1	45.9	135
06E09	.0	1.6	11.9	37.3	50.8	126
12E15	.8	3.1	14.0	24.8	61.2	129
18E21	1.6	4.7	19.4	24.8	55.8	129
TOT	3	18	85	157	277	519
PCT	.6	3.5	16.4	30.3	53.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.2	.0	.0	.0	1	.2
85/89	.0	.0	.0	.2	1.1	2.3	.2	.2	18	4.1
80/84	.0	.0	.0	.0	1.8	17.9	34.7	10.4	286	64.9
75/79	.0	.0	.0	.0	.0	.9	14.5	15.0	134	30.4
70/74	.0	.0	.0	.0	.0	.0	.0	.5	2	.5
TOTAL	0	0	0	1	14	93	218	115	441	100.0
PCT	.0	.0	.0	.2	3.2	21.1	49.4	26.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0
	.9	.7	.6	.2	.7	.2	.0	.1	.0	.7
	14.7	26.6	3.1	1.8	2.0	3.2	4.5	6.3	.0	2.7
	6.9	8.0	.8	.8	2.2	1.8	1.2	4.9	.0	3.9
	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0
	22.4	35.3	4.8	2.8	5.0	5.5	5.7	11.3	.0	7.3

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	88	86	84	81	76	74	73	80.3	257
06E09	91	88	86	81	76	75	75	81.3	278
12E15	85	84	84	81	77	75	72	80.6	253
18E21	85	84	83	80	76	75	70	79.8	284
TOT	91	86	84	81	76	75	70	80.5	1072

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	[illegible]	,	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0		1.7	13.7	53.0	31.6	86	117
06E09	.0	.0		9.3	30.6	34.3	25.9	83	108
12E15	.0	.0		.9	23.9	53.1	22.1	84	113
18E21	.0	.8		1.7	17.8	55.1	24.6	85	118
TOT	0	1		15	97	224	119	85	456

DECEMBER

PERIOD: (PRIMARY) 1933-1972
(OVER-ALL) 1874-1972

AREA 0007 SARAWAK
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
6	.0	.0	.0	.0	.1	.0	1	.0	.1
5	.0	.0	.1	.0	.5	.1	6	.0	.8
4	.0	.0	.1	.7	.5	.1	9	.0	1.2
3	.0	.0	.0	.9	.3	.0	9	.0	1.2
2	.0	.0	.7	3.4	.9	.1	38	.0	5.1
1	.0	.0	1.1	2.4	.3	.0	28	.0	3.8
0	.1	.0	4.3	15.6	.1	.0	150	.0	20.2
-1	.0	.3	4.3	7.0	.0	.0	86	.0	11.6
-2	.0	.3	9.0	16.1	.3	.0	191	.1	25.5
-3	.0	.3	4.4	3.4	.3	.0	62	.0	8.3
-4	.0	.9	7.3	2.6	.0	.0	80	.0	10.8
-5	.0	1.1	4.2	.7	.0	.0	44	.0	5.9
-6	.0	.5	1.2	.1	.0	.0	14	.0	1.9
-7/-8	.0	.9	1.6	.3	.0	.0	21	.0	2.8
-9/-10	.0	.4	.3	.0	.0	.0	5	.0	.7
TOTAL	1		287		23			1	743
		35		395		3	744		
PCT	.1	4.7	38.6	53.1	3.1	.4	100.0	.1	99.9

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	2.1	.0	.0	.0	.0	2.6
1-2	.0	3.1	.0	.0	.0	.0	3.1
3-4	.0	3.9	3.6	.7	.0	.0	8.2
5-6	.0	.5	.0	.0	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.7	.0	.0	.0	.0	.7
10-11	.0	.0	.7	.0	.0	.0	.7
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	10.3	4.3	.7	.0	.0	15.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.2	4.7	.0	.0	.0	.0	5.0
1-2	1.0	5.0	4.8	.0	.0	.0	10.8
3-4	.0	2.1	10.3	.7	.0	.0	13.0
5-6	.0	3.4	9.8	1.4	.0	.0	14.6
7	.0	.0	.7	2.1	.0	.0	2.7
8-9	.0	.0	.7	.0	.0	.0	.7
10-11	.0	.0	.7	.0	.0	.0	.7
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.9	13.2	26.9	4.1	.0	.0	47.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	1.0	1.2	.0	.0	.0	.0	2.2
3-4	.0	.5	1.2	.0	.0	.0	1.7
5-6	.0	.0	1.2	.0	.0	.0	1.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	1.7	2.4	.0	.0	.0	5.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.7	.0	.0	.0	.0	1.4
1-2	.0	1.5	.0	.0	.0	.0	1.5
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	2.2	.0	.0	.0	.0	2.9

PERIOD: (OVER-ALL) 1963-1972

DECEMBER

TABLE 18 (CONT)

AREA 0007 SARAWAK
3.7N 111.7E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.5	.0	.0	.0	.5
3-4	.0	.0	.5	.0	.0	.0	.5
5-6	.0	.0	.5	.0	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	1.5	.0	.0	.0	1.5

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.1	.9	.0	.0	.0	3.9
3-4	.0	.7	.9	.0	.0	.0	1.5
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.8	1.9	.0	.0	.0	5.7

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	.0	.0	.0	.0	.0	1.0
1-2	.0	3.1	.7	.0	.0	.0	3.8
3-4	.0	2.1	.0	.0	.0	.0	2.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	5.1	.7	.0	.0	.0	6.8

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.7	.0	.0	.0	.0	.0	1.7	
1-2	.0	1.5	.0	.0	.0	.0	1.5	
3-4	.0	3.1	2.7	.0	.0	.0	5.8	
5-6	.0	.2	.0	.0	.0	.0	.2	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.7	4.8	2.7	.0	.0	.0	9.2	94.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.0	5.5	.0	.0	.0	.0	16.4	
1-2	2.7	18.5	6.8	.0	.0	.0	28.1	
3-4	.0	12.3	19.2	1.4	.0	.0	32.9	
5-6	.0	4.1	11.6	1.4	.0	.0	17.1	
7	.0	.0	.7	2.1	.0	.0	2.7	
8-9	.0	.7	.7	.0	.0	.0	1.4	
10-11	.0	.0	1.4	.0	.0	.0	1.4	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	13.7	41.1	40.4	4.8	.0	.0	100.0	146

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.7	9.4	15.5	7.2	.8	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	138	3
6-7	.0	1.9	11.6	13.6	3.3	1.7	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	118	5
8-9	.0	.8	1.9	2.8	3.9	1.7	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	46	6
10-11	.0	.3	.0	1.1	.8	.6	.6	.8	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	9
12-13	.0	.0	.3	.0	.0	.3	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	10
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	2.5	2.6	1.9	1.1	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	36	3
TOTAL	26	38	113	93	32	16	11	6	6	0	0	0	0	0	0	0	0	0	0	361	4
PCT	7.2	10.1	31.3	25.8	8.9	4.4	3.0	1.7	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

ANNUAL

PERIOD: (PRIMARY) 1926-1973
(OVER-ALL) 1857-1973

AREA 0007 SARAWAK
3.7N 111.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	5.6	2.6	.8	.0	.0	.0	.0	9.0	2.7	4.6	.6	.0	.7	.1	82.9
NE	4.6	2.4	.6	.0	.0	.0	.0	7.6	2.3	3.2	.6	.0	.3	.0	86.1
E	5.4	1.7	2.4	.0	.0	.0	.0	9.4	2.5	1.5	.0	.0	1.2	.0	85.7
SE	6.8	2.1	2.1	.0	.0	.0	.0	11.0	2.4	1.6	.0	.0	.0	.0	85.3
S	9.5	3.2	2.2	.0	.0	.0	.0	14.8	4.4	3.2	.0	.0	.8	.0	77.1
SW	7.8	2.8	.9	.0	.0	.0	.0	11.6	2.3	1.8	.1	.0	.5	.1	84.1
W	10.1	2.6	2.1	.0	.0	.0	.0	14.7	3.3	3.2	.0	.0	.7	.0	78.2
NW	6.4	2.3	1.2	.0	.0	.0	.0	9.7	1.6	4.0	.0	.0	.7	.4	83.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.3
CALM	4.5	1.6	1.4	.0	.0	.0	.0	7.5	.3	3.6	1.0	.3	2.3	.0	85.0
TOT PCT	5.4	2.1	1.2	.0	.0	.0	.0	8.6	2.2	2.9	.3	*	.8	.1	85.3
TOT OBS:	7927														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	7.7	3.0	1.7	.0	.0	.0	.0	12.3	3.4	.9	.6	.1	.8	.0	82.2
06&09	3.6	2.1	.9	.0	.0	.0	.0	6.4	2.7	.2	*	.0	.7	.1	89.8
12&15	3.8	.9	1.1	.0	.0	.0	.0	5.7	1.1	4.3	.3	.0	.9	.0	87.9
18&21	6.3	2.4	1.3	.0	.0	.0	.0	10.0	1.6	6.8	.5	.0	.9	.1	80.4
TOT PCT	5.4	2.1	1.2	.0	.0	.0	.0	8.6	2.2	2.9	.4	*	.8	.1	85.2
TOT OBS:	8246														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.1	7.9	3.0	.4	*	*		13.5	7.3	10.4	11.5	10.7	16.3	14.6	18.9	14.2	14.1
NE	2.5	12.3	6.7	.5	*	.0		21.9	7.4	21.3	20.3	21.6	20.6	22.3	22.6	23.5	21.6
E	1.4	3.7	.6	*	*	.0		5.7	6.2	8.1	8.5	7.5	3.5	3.3	5.0	4.2	5.8
SE	1.4	3.7	.4	.0	.0	.0		5.5	5.9	8.4	10.6	6.0	3.5	2.4	4.0	3.1	8.1
S	1.8	5.4	1.2	*	*	.0		8.5	7.1	12.0	11.5	12.5	5.7	5.1	4.1	5.8	7.2
SW	2.2	9.1	3.2	.3	*	.0		14.8	7.9	14.4	19.8	16.1	16.5	13.4	12.0	13.3	16.7
W	1.9	6.7	2.1	.2	*	.0		11.0	7.3	7.7	7.3	9.3	16.1	15.2	15.4	10.1	9.9
NW	1.7	4.9	.9	.1	*	.0		7.6	6.5	4.5	5.8	5.9	11.1	10.7	9.6	8.3	5.5
VAR	.0	*	.0	.0	.0	.0		*	.4	.0	.0	.0	.0	.0	.0	.1	.0
CALM	11.6							11.6	.0	13.1	4.7	10.4	8.7	12.9	8.6	17.4	11.1
TOT OBS							10401		7.0	1906	709	1727	1031	1826	702	1466	1046
TOT PCT	26.5	53.8	18.1	1.6	.1	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)							HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	6.0	6.2	1.2	.1	*		13.5	7.3	10.7	13.0	16.0	14.2
NE	7.8	11.9	2.1	.1	.0		21.9	7.4	21.2	21.3	22.5	22.8
E	3.6	2.0	.1	*	.0		5.7	6.2	8.1	6.0	3.7	4.8
SE	3.5	1.9	*	.0	.0		5.5	5.9	8.9	3.2	2.8	5.1
S	4.5	3.7	.2	*	.0		8.5	7.1	11.9	10.2	4.9	6.4
SW	6.7	7.0	1.0	.1	*		14.8	7.9	15.3	10.1	13.1	14.5
W	5.6	4.6	.7	.1	.0		11.0	7.3	7.6	11.4	15.0	9.9
NW	4.6	2.6	.3	*	*		7.6	6.5	4.9	7.7	10.4	7.3
VAR	*	.0	.0	.0	.0		*	.4	.0	.0	.0	*
CALM	11.6						11.6	.0	11.3	9.1	11.6	15.0
TOT OBS						10401		7.0	2608	2793	2528	2512
TOT PCT	54.0	40.0	5.6	.4	*		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1926-1973
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AREA 0007 SARAWAK
3.7N 111.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	11.3	14.4	53.1	19.5	1.6	.2	.0	7.2	100.0	2608
06&09	9.1	16.0	54.6	18.6	1.9	.1	.0	7.2	100.0	2753
12&15	11.6	14.6	54.9	17.2	1.7	.0	*	7.0	100.0	2528
18&21	15.0	14.3	52.2	16.8	1.6	.2	.0	6.7	100.0	2512
TOT								7.0		10401
PCT	11.8	14.8	53.7	18.1	1.6	.1	*		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.9	2.8	4.7	3.4		3.1
NE	3.1	5.3	10.4	3.8		5.0
E	.8	1.3	2.8	1.2		5.3
SE	.5	.7	2.2	1.3		5.9
S	.8	1.7	4.3	2.3		6.0
SW	1.5	2.3	5.5	4.4		5.6
W	1.3	2.0	4.5	2.9		5.8
NW	1.0	1.2	2.3	1.9		5.2
VAR	.0	.0	.0	.0		.0
CALM	3.3	3.4	4.9	2.4		4.8
TOT OBS					4556	5.3
TOT PCT	14.1	20.7	41.7	23.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	*	*	.2	1.2	2.0	.9	.3	*	.1	.0	7.9	
NE	.1	*	.3	1.3	3.1	1.5	.5	.1	*	*	15.4	
E	*	.0	.1	.5	.7	.5	.2	*	*	*	4.1	
SE	*	*	.2	.2	.7	.4	.2	*	*	*	2.8	
S	.1	*	.1	.7	1.2	.7	.4	*	*	.1	5.8	
SW	.2	*	.2	1.2	2.0	.8	.4	.2	*	.1	8.6	
W	.3	*	.1	1.0	1.6	.8	.3	.1	*	.1	6.5	
NW	*	*	.2	.6	.9	.3	.1	.1	*	*	4.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	.0	.1	.7	1.4	.7	.2	*	*	.1	10.7	
TOT PCT	.8	.2	1.4	7.4	13.7	6.7	2.7	.6	.3	.4	65.8	4558 100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.7	.8	.8	.8	.8	.8	.8	.8
* OR >5000	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5
* OR >3500	3.4	4.1	4.2	4.2	4.2	4.2	4.2	4.2
* OR >2000	8.6	10.6	10.9	11.0	11.0	11.0	11.0	11.0
* OR >1000	18.6	23.3	24.3	24.6	24.6	24.7	24.7	24.7
* OR >600	22.7	29.6	31.2	31.6	31.8	31.9	31.9	31.9
* OR >300	23.4	30.7	32.5	33.1	33.2	33.3	33.3	33.3
* OR >150	23.6	30.9	32.7	33.3	33.4	33.5	33.5	33.5
* OR > 0	23.8	31.3	33.3	33.9	34.1	34.2	34.2	34.2

TOTAL NUMBER OF OBS: 4790

PCT FREQ NH <5/8: 65.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
6.4	11.2	18.3	16.3	12.8	8.0	9.0	7.1	10.2	.6	5270

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PERIOD: (PRIMARY) 1926-1973
(OVER-ALL) 1857-1973

TABLE 8

AREA 0007 SARAWAK
3.7N 111.8E

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	*	.0	*	*	*	.0	*	*	.0	.0	.1	
<1/2	NO PCP	*	*	*	.0	.0	.0	*	*	.0	*	.1	
	TOT %	*	*	*	*	*	.0	*	*	.0	*	.2	
	PCP	*	*	*	*	*	*	*	*	.0	.0	.2	
1/2<1	NO PCP	.0	*	*	.0	*	*	*	.0	.0	*	.1	
	TOT %	*	.1	*	*	*	*	*	*	.0	*	.3	
	PCP	.1	.1	.1	.1	*	.1	.1	*	.0	*	.6	
1<2	NO PCP	*	*	*	.0	*	*	*	*	.0	.0	.2	
	TOT %	.1	.1	.1	.1	.1	.1	.1	.1	.0	*	.7	
	PCP	.2	.2	*	.1	.1	.2	.2	.1	.0	*	1.2	
2<5	NO PCP	.2	.3	.1	.1	.2	.2	.2	.1	.0	.1	1.4	
	TOT %	.4	.6	.1	.1	.2	.5	.4	.3	.0	.1	2.6	
	PCP	.5	.5	.2	.2	.3	.8	.6	.3	.0	.2	3.8	
5<10	NO PCP	3.1	3.8	.8	1.5	1.8	3.3	2.4	1.9	.0	2.9	21.5	
	TOT %	9.6	4.3	1.1	1.7	2.1	4.1	3.1	2.3	.0	3.1	25.4	
	PCP	.3	.5	.2	.1	.4	.3	.4	.3	.0	.3	2.8	
10+	NO PCP	9.1	16.8	4.4	3.5	5.5	8.8	6.8	4.8	*	8.4	68.1	
	TOT %	9.4	17.2	4.5	3.6	5.9	9.2	7.2	5.1	*	8.6	70.8	
	TOT OBS												7919
	TOT PCT	13.6	22.3	5.9	5.6	8.4	13.9	10.8	7.7	*	11.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0		*	
<1/2	4-10	*	.1	*	*	.0	.0	.0	*	.0		.2	
	11-21	*	*	*	*	*	*	*	*	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.1	*	*	*	*	*	*	.0	*	.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	*	.0	*	*	
1/2<1	4-10	*	*	*	*	*	*	*	.0	.0		.2	
	11-21	.0	*	*	.0	*	*	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.1	*	*	*	*	*	*	.0	*	.3	
	0-3	*	*	*	*	.0	.0	*	*	.0	*	.1	
1<2	4-10	.1	.1	*	*	*	*	*	*	.0		.4	
	11-21	.1	*	*	*	*	.1	*	*	.0		.3	
	22+	.0	*	.0	.0	.0	*	.0	.0	.0		*	
	TOT %	.1	.2	.1	.1	.1	.1	.1	.1	.0	*	.8	
	0-3	*	.1	*	*	*	.1	.1	.1	.0	.1	.5	
2<5	4-10	.3	.4	.1	.1	.2	.2	.2	.2	.0		1.7	
	11-21	.2	.3	.1	*	.1	.2	.1	.1	.0		1.0	
	22+	*	*	.0	.0	*	*	.0	.0	.0		.1	
	TOT %	.6	.8	.2	.2	.3	.5	.4	.5	.0	.1	3.4	
	0-3	.4	.5	.3	.6	.5	.7	.6	.5	.0	3.0	6.9	
5<10	4-10	1.7	2.1	.6	1.0	1.3	2.2	1.7	1.4	.0		12.1	
	11-21	1.1	1.3	.1	.2	.6	.9	.7	.2	.0		5.1	
	22+	.2	.2	.0	.0	*	.2	.2	.1	.0		.8	
	TOT %	3.5	4.1	1.0	1.8	2.1	4.0	3.0	2.2	.0	3.0	24.9	
	0-3	1.4	2.0	1.0	.8	1.2	1.0	1.2	1.1	.0	8.8	18.6	
10+	4-10	5.9	9.5	3.0	2.7	4.0	5.9	4.7	3.3	*		39.0	
	11-21	1.8	5.1	.4	.2	.8	2.0	1.2	.6	.0		12.1	
	22+	.2	.4	*	.0	*	.1	*	*	.0		.7	
	TOT %	9.3	17.0	4.3	3.7	6.0	9.0	7.2	5.0	*	8.8	70.4	
	TOT OBS												8444
	TOT PCT	13.7	22.3	5.8	5.7	8.4	13.7	10.7	7.6	*	12.0	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.8	.2	2.4	8.5	16.2	6.6	3.1	1.3	.4	.7	40.0	60.0	1379
06E09	.4	.3	1.1	7.2	12.7	7.7	2.6	.4	.2	.2	32.8	67.2	1312
12E15	.4	.0	.9	5.1	11.1	6.1	2.7	.4	.1	.6	27.5	72.5	1254
18E21	1.4	.2	1.0	6.3	11.2	5.4	1.4	.5	.4	.5	28.3	71.7	1135
TOT													5080
PCT	.7	.2	1.4	6.9	12.9	6.5	2.5	.7	.3	.5	32.5	67.5	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
00E03	.5	.5	.7	3.3	24.0	71.0	2293
06E09	.3	.2	.8	2.5	20.1	76.1	2177
12E15	.2	.1	.6	3.5	26.9	68.8	2232
18E21	.3	.4	1.5	4.0	26.0	67.8	2063
TOT							8765
PCT	.3	.3	.9	3.3	24.3	70.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.8	3.9	14.4	28.0	57.6	1309
06E09	.4	2.1	10.7	24.2	65.2	1232
12E15	.4	1.5	9.0	21.2	69.8	1179
18E21	1.5	2.9	12.3	18.6	69.0	1070
TOT						4790
PCT	.8	2.6	11.7	23.3	65.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	*	.1	.0	.0	.0		.1
90/94	.0	.0	.0	.1	.5	.3	.1	.0		1.1
85/89	.0	.0	.0	.1	1.6	6.5	3.0	.8		12.1
80/84	.0	.0	*	*	1.2	20.4	37.4	9.1		68.1
75/79	.0	.0	.0	.0	.1	1.1	7.6	9.3		18.1
70/74	.0	.0	.0	.0	.0	*	.1	.4		.5
TOTAL									4955	100.0
PCT	.0	.0	*	.3	3.5	28.4	48.2	19.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

TEMP F	N	NE	E	SE	S	SW	W	NW	VAR	CALM
95/99	.0	*	*	.0	.0	*	.0	.0	.0	.0
90/94	.1	.1	*	*	.1	.2	.2	.1	.0	.3
85/89	1.0	1.7	.8	.7	1.3	2.1	1.5	1.0	.0	1.9
80/84	6.3	16.0	4.0	3.1	5.6	9.8	8.0	5.0	.0	8.2
75/79	2.9	4.3	.8	1.2	1.9	2.0	1.4	1.3	*	2.2
70/74	.1	*	.1	*	*	.1	*	*	.0	.2
PCT	12.4	22.3	5.7	5.2	8.9	14.1	11.1	7.4	*	12.9

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	93	88	85	82	76	74	72	81.1	2627
06E09	97	91	88	83	78	76	72	82.9	2711
12E15	95	86	85	82	78	76	72	81.5	2557
18E21	89	84	83	81	77	75	70	80.6	2583
TOT	97	89	86	82	77	75	70	81.6	10478

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.2	1.4	21.1	49.1	28.3	85	1424
06E09	.0	.9	9.2	41.2	35.9	12.8	80	1237
12E15	.0	.0	2.3	29.0	52.1	16.6	83	1380
18E21	.0	.1	1.3	23.3	53.4	22.0	84	1202
TOT	0	15	180	1490	2496	1062	83	5243

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA THP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	*	.0	*	*	7	.0	.1
9/10	.0	.0	*	*	.1	.1	.1	21	.0	.3
7/8	.0	*	*	*	.2	.2	.1	35	.0	.5
6	.0	.0	.0	*	.2	.2	.0	36	*	.5
5	.0	.0	*	.3	.3	.5	*	95	.0	1.3
4	.0	.0	.1	1.0	1.1	.3	.0	198	*	2.6
3	.0	.0	.1	.6	.9	.4	.0	143	.0	2.0
2	.0	*	.3	3.6	1.9	.1	.0	460	.0	5.9
1	.0	*	.6	3.2	2.1	*	.0	424	*	5.9
0	*	.2	2.5	12.4	2.1	*	.0	1342	.1	17.1
-1	*	.1	2.3	9.3	1.2	*	.0	935	.0	13.0
-2	*	.3	4.6	14.1	.7	.0	.0	1513	.1	19.6
-3	*	.1	2.4	6.4	.2	.0	.0	662	*	9.2
-4	.0	.5	4.8	4.8	*	.0	.0	768	*	10.1
-5	.1	.5	3.1	1.4	.1	.0	.0	374	*	5.0
-6	*	.4	2.2	.3	.0	.0	.0	217	*	3.0
-7/-8	*	.3	1.8	.3	.0	.0	.0	216	*	2.9
-9/-10	*	.3	.3	*	.0	.0	.0	46	.0	.6
-11/-13	*	.1	*	.0	.0	.0	.0	16	.0	.2
TOTAL								7506		
PCT	.2	3.5	25.1	57.8	11.3	1.9	.2	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	1.1	.1	.0	.0	.0	2.2
1-2	.4	3.2	.8	.0	.0	.0	4.4
3-4	.0	2.3	1.7	.1	.0	.0	4.1
5-6	.0	.3	.8	.1	.0	.0	1.2
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.1	*	*	.0	.0	.1
10-11	.0	*	.1	.1	.0	.0	.3
12	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	*	.0	.0	*
20-22	.0	.0	.0	*	.0	*	.1
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	7.0	3.8	.5	.0	*	12.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	1.1	*	.0	.0	.0	2.2
1-2	1.5	5.7	1.9	.0	.0	.0	9.0
3-4	.1	2.6	3.5	.1	.0	.0	6.4
5-6	.0	.6	2.3	.4	.0	.0	3.4
7	.0	.2	.9	.5	.0	.0	1.6
8-9	.0	.0	.1	.0	.1	.0	.2
10-11	.0	.1	.3	.1	.0	.0	.5
12	.0	.0	*	*	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	*	.0	.0	*
20-22	.0	.0	*	*	.0	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.7	10.3	9.2	1.1	.1	.0	23.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	.6	.0	.0	.0	.0	1.7
1-2	.5	2.0	.3	.0	.0	.0	2.4
3-4	.1	.4	.3	.0	.0	.0	.8
5-6	.0	.2	.2	.0	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	*	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	*	.0	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	3.2	1.0	.0	*	.0	5.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.4	.0	.0	.0	.0	.9
1-2	.3	1.8	.2	.0	.0	.0	2.5
3-4	.0	.5	.1	.0	.0	.0	.6
5-6	.0	.1	.1	.0	.0	.0	.2
7	.0	*	.0	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	2.9	.4	.0	.0	.0	4.3

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TABLE 18 (CONT)

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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.5	.0	.0	.0	.0	1.2
1-2	.5	4.2	.8	.0	.0	.0	5.5
3-4	.1	1.2	.5	.0	.0	.0	1.8
5-6	.0	.1	.2	.0	.0	.0	.3
7	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.1	.0	.0	.0	.0	.1
12	.0	.1	.0	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	6.1	1.6	.0	.0	.0	9.0

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.8	.1	.0	.0	.0	1.5
1-2	.3	3.2	1.8	.0	.0	.0	7.2
3-4	.2	2.5	1.2	.1	.0	.0	4.0
5-6	.0	.1	1.3	.1	.0	.0	1.4
7	.0	*	.4	.1	.0	.0	.5
8-9	.0	*	.1	.0	.0	.0	.1
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	*	.0	.0	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	8.6	4.9	.2	.0	.0	14.8

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	1.2	.1	.0	.0	.0	2.2
1-2	.3	4.8	.8	.0	.0	.0	5.9
3-4	.1	1.5	1.0	.0	.0	.0	2.5
5-6	.0	.3	.3	.0	.0	.0	.6
7	.0	.1	.3	.1	.0	.0	.5
8-9	.0	*	.2	.1	.0	.0	.3
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	8.0	2.7	.2	.0	.0	12.1

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.7	.5	.0	.0	.0	.0	1.2	
1-2	.4	2.0	.2	.0	.0	.0	2.7	
3-4	.0	.6	.5	.0	.0	.0	1.1	
5-6	.0	.1	.3	.0	.0	.0	.4	
7	.0	.0	.1	.0	.0	.0	.1	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.2	3.2	1.1	.0	.0	.0	5.5	87.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	20.0	6.1	.3	.0	.0	.0	26.4	
1-2	4.7	28.4	6.6	.0	.0	.0	39.7	
3-4	.5	11.6	8.7	.3	.0	.0	21.1	
5-6	*	1.8	5.4	.6	.0	.0	7.8	
7	.0	.3	2.0	.6	.0	.0	2.9	
8-9	.0	.1	.4	.1	.1	.0	.7	
10-11	.0	.2	.6	.2	.0	.0	1.0	
12	.0	.1	*	*	.0	.0	.2	
13-16	.0	.0	*	.0	.0	.0	*	
17-19	.0	.0	.0	*	.0	.0	*	
20-22	.0	.0	*	*	.0	*	.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	25.3	48.5	24.2	1.9	.1	* 100.0		1819

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	8.1	24.8	14.0	4.2	1.1	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1887	2
6-7	.1	3.2	7.6	5.7	2.2	.7	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	779	4
8-9	*	.3	1.0	2.2	1.6	.7	.3	.2	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	257	6
10-11	.0	.1	.3	.3	.3	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	69	7
12-13	.0	.0	.2	.1	.1	*	.0	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	6
>13	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	2	15
INDET	13.7	2.9	1.1	.5	*	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	627	1
TOTAL PCT	21.9	31.2	24.2	13.0	5.4	2.0	1.3	.6	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	3638 100.0	3

PERIOD: (PRIMARY) 1926-1973
(OVER-ALL) 1857-1973

TABLE 20

AREA 0007 SARAWAK
3.7N 111.8E

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	.
91/92	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	2	*
89/90	.1	.1	.1	.8	1.4	2.0	1.2	.2	.1	.4	.1	.2	50	.5
87/88	.4	.3	1.8	3.7	11.2	8.3	4.6	4.2	3.2	2.6	1.9	1.0	317	3.2
85/86	1.9	1.2	3.6	28.0	44.4	35.5	34.7	31.8	24.3	27.0	18.7	7.0	1911	19.4
83/84	13.1	8.3	18.6	40.7	33.1	31.4	35.3	45.5	50.6	48.6	39.6	28.7	3060	31.0
81/82	53.1	48.3	54.2	20.1	7.1	12.5	14.4	16.3	17.4	19.8	35.9	47.4	3119	31.6
79/80	23.8	29.6	17.4	5.3	1.8	9.2	8.7	1.3	2.0	.9	3.3	12.5	1079	10.9
77/78	5.0	8.6	3.6	1.3	.8	.8	.3	.8	.1	.8	.3	2.4	238	2.4
75/76	1.9	2.3	.5	.2	.0	.1	.8	.0	.3	.0	.0	.4	63	.6
73/74	.4	.6	.1	.0	.0	.0	.0	.0	.0	.0	.1	.0	13	.1
71/72	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	6	.1
69/70	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	4	*
67/68	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	*
65/66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
63/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	1143	996	827	622	658	791	723	620	696	794	987	1002	9859	100.0
MEAN	80.9	80.5	81.6	83.6	84.7	84.0	83.7	83.9	83.7	83.7	83.1	82.0	82.9	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1011	1010	1010	1009	1010	1010	1010	1009	1010	981
FEB	1011	1010	1010	1009	1009	1010	1010	1010	1010	822
MAR	1011	1010	1010	1008	1009	1010	1010	1009	1010	704
APR	1010	1009	1009	1007	1009	1010	1009	1009	1009	496
MAY	1010	1009	1008	1007	1008	1010	1009	1008	1009	492
JUN	1010	1010	1009	1008	1009	1009	1009	1009	1009	577
JUL	1009	1010	1009	1008	1008	1010	1009	1009	1009	569
AUG	1010	1009	1009	1007	1009	1010	1009	1008	1009	514
SEP	1010	1010	1009	1008	1009	1010	1009	1009	1009	650
OCT	1010	1010	1009	1008	1009	1009	1010	1009	1010	701
NOV	1011	1010	1009	1008	1010	1009	1010	1009	1010	928
DEC	1010	1011	1009	1009	1010	1010	1009	1009	1010	852
ANN	1010	1010	1009	1008	1009	1010	1009	1009	1009	8386
OBS	1396	587	1405	699	1528	599	1258	714		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	1004	1004	1006	1009	1010	1011	1014	1015	1017
FEB	1004	1004	1006	1008	1010	1011	1014	1015	1016
MAR	1004	1004	1006	1008	1010	1011	1013	1014	1016
APR	1004	1004	1006	1008	1008	1010	1012	1014	1015
MAY	1003	1004	1005	1006	1008	1010	1012	1013	1014
JUN	1003	1004	1005	1008	1009	1010	1012	1012	1013
JUL	1004	1005	1006	1008	1009	1010	1012	1012	1013
AUG	1004	1005	1006	1008	1009	1010	1012	1013	1014
SEP	1004	1004	1006	1008	1009	1011	1012	1013	1014
OCT	1003	1004	1005	1008	1010	1011	1012	1013	1015
NOV	1004	1004	1006	1008	1010	1011	1013	1014	1015
DEC	1004	1004	1005	1008	1010	1011	1014	1015	1016

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Volcano Area	Name	Approximate Central Location	
1	[illegible]	03.5°S	101.7°E
1	[illegible]	10.3°S	105.7°E
3	[illegible]	03.1°S	107.7°E
4	[illegible]	05.4°S	107.5°E
5	[illegible] Northwest	03.8°S	109.0°E
6	[illegible] Island	04.1°S	109.6°E
		05.5°S	111.0°E
8	[illegible]	05.2°S	107.0°E
		02.7°S	109.2°E
		05.6°S	107.6°E
		03.4°S	113.0°E
		03.7°S	106.2°E
		04.0°S	115.1°E
		03.8°S	113.9°E
		07.1°S	113.6°E
		07.0°S	119.9°E
17	[illegible] Sea	05.8°S	117.6°E
	[illegible] Strait	04.3°S	117.6°E
	[illegible] Pacific	02.1°S	117.6°E
	[illegible] Strait	08.1°S	110.7°E
21	[illegible] Sulawesi Sea	03.2°N	120.3°E

Volcano Area	Name	Approximate Central Location	
4	[illegible] Celebes Sea	03.8°N	120.2°E
23	[illegible] Lia	03.0°N	123.5°E
24	[illegible] Maluku Sea	03.0°N	127.0°E
25	[illegible] Halmahera Sea	01.0°S	128.7°E
26	[illegible] Seram Sea	3.5°S	131.0°E
27	[illegible] Banda Sea	7.8°S	129.6°E
28	[illegible] Timor Sea	08.4°S	129.3°E
5	29 [illegible] Taliabu Island	1.2°S	124.8°E
	30 [illegible] West Seram Sea	03.3°S	128.3°E
	31 [illegible] East Seram Sea	03.6°S	130.0°E
	32 [illegible] West Torres Strait	10.5°S	140.5°E
	33 [illegible] East Torres Strait	10.8°S	143.8°E
	34 [illegible] Gulf of Papua Southeast	10.3°S	146.8°E
6	35 [illegible] Southeast New Guinea	10.7°S	151.5°E
	36 [illegible] Northeast Solomon Sea	05.9°S	160.7°E
	37 [illegible] Admiralty Islands East	01.0°S	149.0°E
	38 [illegible] New Ireland Northeast	02.1°S	152.6°E
	39 [illegible] Central Solomon Sea	05.5°S	153.5°E
	40 [illegible] Southeast Solomon Sea	08.5°S	154.5°E