AD-A007 969

SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS. INDONESIAN COASTAL MARINE AREAS. VOLUME 2. AREA 8 - WEST BORNEO, AREA 9 - KARIMATA STRAIT, AREA 10- SOUTHWEST JAVA SEA, AREA 11 - SOUTH CENTRAL JAVA, AREA 12 - SOUTHEAST JAVA, AREA 13 - SOUTHEAST JAVA SEA, AREA 14 - NORTHEAST JAVA SEA

Naval Weather Service Command
Washington, D. C.

April 1975

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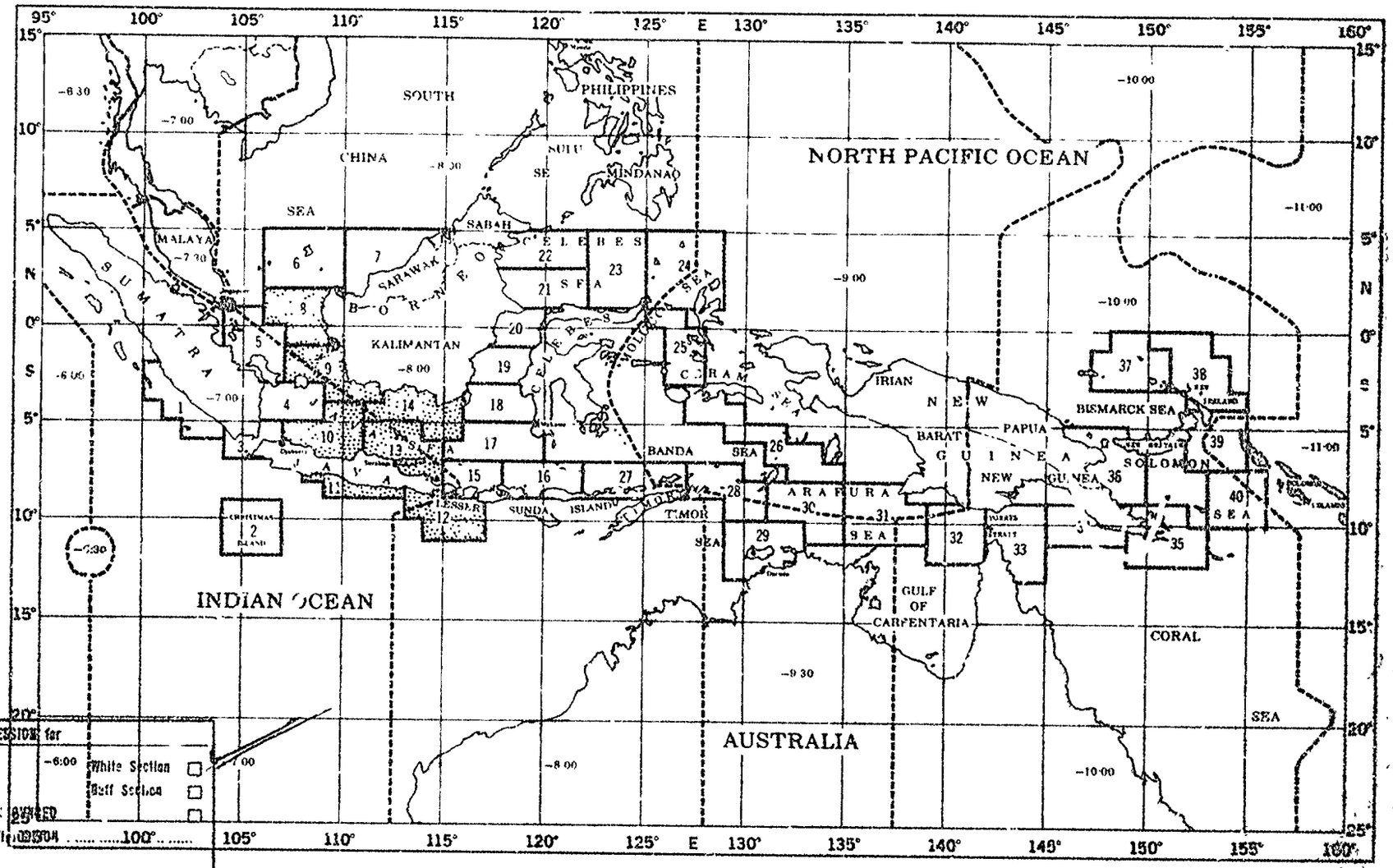

INDONESIAN COASTAL MARINE SSMO AREAS AND STANDARD TIME ZONES

Shaded areas are included in this volume

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

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U. S. NAVAL WEATHER SERVICE COMMAND

SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS

INDONESIAN COASTAL MARINE AREAS

VOLUME 2

AREA 8 - WEST BORNEO
AREA 9 - KARIMATA STRAIT
AREA 10 - SOUTHWEST JAVA SEA
AREA 11 - SOUTH CENTRAL JAVA
AREA 12 - SOUTHEAST JAVA
AREA 13 - SOUTHEAST JAVA SEA
AREA 14 - NORTHEAST JAVA SEA

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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.

CONTENTS

AREA	NAME	PAGES
8	West Borneo	1-79
9	Karimata Strait	80-158
10	Southwest Java Sea	159-237
11	South Central Java	238-316
12	Southeast Java	317-395
13	Southeast Java Sea	396-474
14	Northeast Java Sea	475-553

Copies of this document are obtainable from the National Technical Information Service (NTIS), Springfield, Virginia 22151.

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

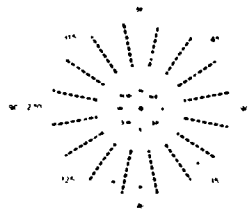

Fig 2 The 16 point direction system superimposed on the 8 point system

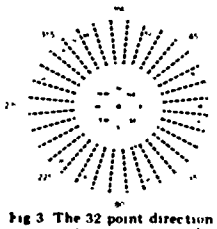

Fig 3 The 32 point direction system superimposed on the 8 point system

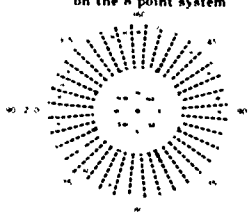

Fig 4 The 36 point direction system superimposed on the 8 point system

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	CODE	INTERPRETATION
58-59, 60-65, 91-94, (68-69,95,97 IF TEMP > 40° F)	RAIN	10-12, 40-49	FOG (WITHOUT PRECIPITATION)
80-82, (83-84 IF TEMP > 40° F)	RAIN SHOWERS	28	FOG (WITHOUT PRECIPITATION) PAST HOUR
50-55, 58-59	DRIZZLE	04-05	SMOKE HAZE
56-57, 66-67	FREEZING PRECIPITATION	06-09, 30-39	SPRAY BLOWING DUST BLOWING SNOW
70-75, 85-86 (68-69, 83-84, 95,97 IF TEMP ≤ 40 F)	SNOW	00-03, 14-16, 18	NO SIGNIFICANT WEATHER AT OB TIME
76-79	OTHER FROZEN PRECIPITATION	00-49	NO PRECIPITATION AT OB TIME
87-90, 93-94, 96,99	HAIL	50-99	PRECIPITATION AT OB TIME
13,17, 19,29, 95-99	THUNDER LIGHTNING THUNDERSTORM	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) 1948-1973
(OVER-ALL) 1859-1973

AREA 0008 WEST BORNEO
.7N 107.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	4.2	4.9	.5	.0	.0	.0	.0	7.5	3.6	.0	.0	.0	.0	.0		88.8
NE	6.1	.3	2.8	.0	.0	.0	.0	9.2	1.2	2.1	.0	.0	.0	.0		87.5
E	14.6	.0	.0	.0	.0	.0	.0	14.6	8.3	.0	.0	.0	.0	.0		77.1
SE	50.0	.0	.0	.0	.0	.0	.0	50.0	.0	.0	.0	.0	.0	.0		50.0
S	11.8	8.8	.0	.0	.0	.0	.0	20.6	.0	.0	.0	.0	.0	.0		79.4
SW	22.2	5.6	.0	.0	.0	.0	.0	27.8	22.2	.0	.0	.0	.0	.0		50.0
W	11.4	11.4	.0	.0	.0	.0	.0	22.9	.0	.0	.0	.0	.0	.0		77.1
NW	3.4	6.9	.0	.0	.0	.0	.0	10.3	5.2	.0	.0	.0	.0	.0		84.5
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	20.0	.0	.0	.0	.0		80.0
TOT PCT	5.7	2.6	1.2	.0	.0	.0	.0	9.5	3.1	1.0	.0	.0	.0	.0		86.5
TOT OBS:	421															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	6.3	3.9	.8	.0	.0	.0	.0	10.9	1.6	.8	.0	.0	.0	.0		86.7
06609	3.1	3.1	1.0	.0	.0	.0	.0	7.3	4.2	.0	.0	.0	.0	.0		88.5
12615	5.1	1.0	.0	.0	.0	.0	.0	6.1	3.1	1.0	.0	.0	.0	.0		89.8
18621	8.4	1.9	2.8	.0	.0	.0	.0	13.1	5.7	1.9	.0	.0	.0	.0		81.3
TOT PCT	5.8	2.6	1.2	.0	.0	.0	.0	9.6	3.0	.9	.0	.0	.0	.0		86.5
TOT OBS:	429															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	21.7	14.0	1.0	.0	.0		39.7	10.5	37.1	44.5	38.5	39.7	38.8	52.9	36.6	41.4
NE	1.6	14.3	10.7	.8	.0	.0		27.5	10.2	26.8	45.3	22.5	31.8	22.5	44.1	25.0	24.5
E	.4	3.3	.6	.0	.0	.0		4.3	7.6	4.1	1.7	7.1	2.0	1.6	1.0	4.3	7.7
SE	.1	.4	.2	.0	.0	.0		.8	7.4	1.8	.0	1.4	.0	.0	.0	.0	1.5
S	.3	1.2	.3	.0	.0	.0		1.8	7.6	2.4	.0	1.7	1.7	2.8	.0	2.9	.9
SW	.2	1.7	.3	.0	.0	.0		2.2	7.5	2.7	3.4	2.5	2.7	2.8	.0	1.8	.9
W	.1	2.7	.4	.1	.0	.0		3.3	7.7	3.6	.0	2.8	4.1	2.7	.0	5.3	1.5
NW	1.6	12.2	3.2	*	.0	.0		17.0	8.1	18.6	5.1	20.3	15.4	22.9	2.0	19.0	15.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.4							3.4	.0	3.0	.0	3.3	2.7	2.8	.0	5.1	6.1
TOT OBS	93	604	332	20	0	0	1049		9.3	169	59	180	148	141	51	138	163
TOT PCT	8.9	57.6	31.6	1.9	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	9.5	24.3	6.0	*	.0		39.7	10.5	39.0	39.0	42.6	39.2
NE	7.3	17.0	3.1	.1	.0		27.5	10.2	31.6	28.7	28.3	24.8
E	2.1	2.0	.2	.0	.0		4.3	7.6	3.5	4.8	1.4	6.1
SE	.3	.4	.0	.0	.0		.8	7.4	1.3	.8	.0	.8
S	.7	1.1	.0	.0	.0		1.8	7.6	1.8	1.7	2.1	1.8
SW	1.0	1.1	.1	.0	.0		2.2	7.5	2.9	2.6	2.1	1.3
W	1.7	1.5	.1	.0	.0		3.3	7.7	2.6	3.4	4.2	3.2
NW	7.2	8.9	.9	.0	.0		17.0	8.1	13.1	18.1	17.3	17.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.4						3.4	.0	2.2	3.0	2.1	5.6
TOT OBS	348	591	108	2	0	1049		9.3	228	328	192	301
TOT PCT	33.2	56.3	10.3	.2	.0		100.0		100.0	100.0	100.0	100.0

JANUARY

PERIOD: (PRIMARY) 1918-1973
(OVER-ALL) 1859-1973

AREA 0008 WEST BORNEO
.7N 107.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
				WIND SPEED (KNOTS)						
00&03	2.2	6.6	52.6	36.8	1.8	.0	.0	9.7	100.0	228
06&09	3.0	5.2	56.1	32.9	2.7	.0	.0	9.6	100.0	320
12&15	2.1	6.3	59.9	30.2	1.6	.0	.0	9.1	100.0	192
18&21	5.6	4.3	51.5	27.2	1.3	.0	.0	8.7	100.0	301
TOT	36	57	604	332	20	0	0	9.3		1049
PCT	3.4	5.4	57.6	31.6	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	3.1	7.1	16.8	12.8		6.0
NE	2.4	6.7	11.4	11.1		6.0
E	.0	.0	3.1	.0		6.4
SE	.0	.0	.0	.0		.0
S	.4	.4	1.6	1.6		6.3
SW	.1	.1	.1	.7		6.3
W	.6	.0	1.3	1.7		6.2
NW	1.3	2.1	6.7	4.5		5.8
VAR	.0	.0	.0	.0		.0
CALM	.6	.0	1.7	.0		5.2
TOT OBS	15	29	75	57	176	6.0
TOT PCT	8.5	16.5	42.6	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	.9	3.3	6.4	3.3	2.1	.0	.0	.0	23.9	
NE	.6	.0	.6	2.0	8.8	1.6	1.8	.0	.6	.0	15.6	
E	.0	.0	.0	.6	1.6	.0	.6	.0	.0	.0	.4	
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
S	.0	.0	.0	1.6	.6	.0	.0	.0	.0	.0	1.8	
SW	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.4	
W	.0	.0	.0	.0	1.1	.6	.0	.0	.0	.0	1.8	
NW	.0	.0	.3	2.1	2.0	.9	.0	.0	.6	.0	8.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	1.7	
TOT OBS	1	0	3	19	36	11	8	0	2	0	96	176
TOT PCT	.6	.0	1.7	10.8	20.5	6.3	4.5	.0	1.1	.0	54.5	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >500YD	* OR >0
* OR >6500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
* OR >4000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
* OR >3500	5.5	5.5	5.5	5.5	5.5	5.5	5.5	[illegible]
* OR >2000	7.7	11.5	12.1	12.1	12.1	12.1	12.1	12.1
* OR >1000	18.7	28.6	31.9	31.9	31.9	31.9	31.9	31.9
* OR >600	24.2	36.8	41.8	42.3	42.3	42.3	42.3	42.3
* OR >300	25.3	37.9	42.9	44.0	44.0	44.0	44.0	44.0
* OR >150	25.3	37.9	42.9	44.0	44.0	44.0	44.0	44.0
* OR > 0	25.3	37.9	43.4	44.5	44.5	44.5	44.5	44.5
TOTAL	46	69	79	81	81	81	81	81

TOTAL NUMBER OF OBS: 182 PCT FREQ NH <5/8: 55.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
9.1	7.8	18.7	12.4	13.5	10.4	9.3	6.7	17.6	.5	193

JANUARY

PERIOD: (PRIMARY) 1918-1973
(OVER-ALL) 1859-1973

AREA 0008 WEST BORNEO
.7N 107.3E

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	.6	.1	.0	.0	.2	.1	.0	.0	.0	.0	1.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.6	.1	.0	.0	.2	.1	.0	.0	.0	.0	1.0	
2<5	PCP	.0	1.0	.2	.0	.0	.0	.0	.7	.0	.0	1.9	
	NO PCP	1.5	1.2	.2	.0	.0	.0	.0	.3	.0	.0	3.3	
	TOT %	1.5	2.2	.5	.0	.0	.0	.0	1.0	.0	.0	5.2	
5<10	PCP	1.4	1.2	.2	.2	.2	.2	.2	.2	.0	.0	4.0	
	NO PCP	10.1	8.2	.2	.0	.0	.0	.2	1.2	.0	.0	20.0	
	TOT %	11.5	9.4	.4	.2	.2	.2	.5	1.4	.0	.0	24.0	
10+	PCP	1.4	.8	.0	.0	.0	.0	.2	.1	.0	.0	2.6	
	NO PCP	30.7	21.6	2.0	.2	1.6	.8	1.4	7.8	.0	1.2	67.2	
	TOT %	32.1	22.4	2.0	.2	1.6	.8	1.6	7.9	.0	1.2	69.8	
	TOT OBS												421
	TOT PCT	45.8	34.2	2.9	.5	2.0	1.1	2.1	10.3	.0	1.2	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.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	.4	.1	.0	.0	.1	*	.0	*	.0		.7	
	11-21	.1	.0	.0	.0	.0	.1	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.5	.1	.0	.0	.1	.2	.0	*	.0	.1	1.1	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	1.0	1.2	.3	.0	.0	.0	.1	.4	.0		3.1	
	11-21	1.1	1.2	.0	.0	.0	.0	.0	.4	.0		2.7	
	22+	.1	.1	.0	.0	.0	.0	.1	.0	.0		.3	
	TOT %	2.2	2.5	.3	.0	.0	.0	.3	.8	.0	.0	6.0	
5<10	0-3	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	.6	
	4-10	3.8	2.4	.3	.1	.1	.2	.4	1.8	.0		9.3	
	11-21	4.5	3.5	.1	.0	.1	.0	.0	.5	.0		8.7	
	22+	.4	.2	.0	.0	.0	.0	.0	.0	.0		.6	
	TOT %	8.8	6.4	.5	.2	.3	.2	.4	2.3	.0	.0	19.1	
10+	0-3	1.0	1.1	.1	.0	.2	.2	.0	1.5	.0	2.5	6.6	
	4-10	19.4	11.8	1.2	.0	.9	.8	1.2	9.6	.0		44.9	
	11-21	11.2	7.9	.3	.1	.1	*	.3	1.9	.0		21.9	
	22+	.0	.3	.0	.0	.0	.0	.0	.0	.0		.3	
	TO.	31.6	21.1	1.6	.1	1.2	1.0	1.5	12.9	.0	2.5	73.6	
	TOT OBS												713
	TOT PCT	43.1	30.3	2.3	.4	1.6	1.4	2.1	16.1	.0	2.7	100.0	

JANUARY

PERIOD: (PRIMARY) 1918-1973
(OVER-ALL) 1959-1973

AREA 0008 WEST BORNEO
.7N 107.3E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	3.2	11.1	20.6	6.3	6.3	.0	3.2	.0	50.8	49.2	63
06E09	.0	.0	2.4	14.3	16.7	9.5	7.1	.0	.0	.0	50.0	50.0	42
12E15	2.5	.0	.0	7.5	20.0	7.5	.0	.0	.0	.0	37.5	62.5	40
18E21	.0	.0	.0	7.0	18.6	2.3	2.3	.0	.0	.0	30.2	69.8	43
TOT	1	0	3	19	36	12	8	0	2	0	81	107	188
PCT	.5	.0	1.6	10.1	19.1	6.4	4.3	.0	1.1	.0	43.1	56.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.6	.0	1.7	2.8	20.2	74.7	178
06E09	.0	.0	1.0	5.7	15.6	77.6	192
12E15	.0	.0	.0	8.0	20.7	71.3	150
18E21	.0	.0	1.5	7.4	20.2	70.9	203
TOT	1	0	8	43	138	533	723
PCT	.1	.0	1.1	5.9	19.1	73.7	100.0

TABLE 12

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

HOUR (GMT)	<150 <500YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	3.2	15.9	34.9	49.2	63
06E09	.0	2.5	25.0	32.5	42.5	40
12E15	2.7	2.7	16.2	27.0	56.8	37
18E21	.0	.0	16.7	16.7	66.7	42
TOT	1	4	33	52	97	182
PCT	.5	2.2	18.1	28.6	53.3	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	.0	3.5	1.4	.0	7	4.9
80/84	.0	.0	.0	.0	2.1	20.3	34.3	4.9	88	61.5
75/79	.0	.0	.0	.0	.0	4.9	14.7	13.3	47	32.9
70/74	.0	.0	.0	.0	.0	.0	.0	.7	1	.7
TOTAL	0	0	0	0	3	41	72	27	143	100.0
PCT	.0	.0	.0	.0	2.1	28.7	50.3	18.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
3.0	.5	.5	.0	.7	.0	.0	.2	.0	.0
23.1	15.9	.7	.0	2.8	1.4	1.0	13.8	.0	2.8
13.5	12.6	1.2	.0	.5	.2	1.4	2.8	.0	.7
.7	.0	.0	.0	.0	.0	.0	.0	.0	.0
40.2	29.0	2.4	.0	4.0	1.6	2.4	16.8	.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	90	85	84	80	77	75	69	80.2	230
06E09	94	90	86	81	77	73	73	81.4	327
12E15	91	84	83	80	77	75	75	80.1	191
18E21	84	83	82	80	76	75	72	79.5	302
TOT	94	87	84	80	77	75	69	80.4	1050

TABLE 16

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	18.8	56.3	22.9	85	48
06E09	.0	.0	3.4	48.3	37.9	10.3	80	29
12E15	.0	.0	.0	28.6	57.1	14.3	84	35
18E21	.0	.0	5.4	21.6	51.4	21.6	86	37
TOT	0	0	4	41	77	27	84	149

JANUARY

PERIOD: (PRIMARY) 1918-1973
(OVER-ALL) 1859-1973

AREA 0008 WEST BORNEO
.7N 107.3E

TABLE 17

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

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.3	1	.0	.3
7/8	.0	.0	.0	.0	.3	.6	4	.0	1.0
6	.0	.0	.0	.0	.3	.0	1	.0	.3
5	.0	.0	.3	.5	.3	.0	4	.0	1.0
4	.0	.0	.5	1.3	.5	.0	9	.0	2.3
3	.0	.0	.0	1.5	.5	.3	9	.0	2.3
2	.0	.0	.8	8.3	1.0	.0	40	.0	10.1
1	.0	.0	.8	3.3	.0	.0	16	.0	4.0
0	.0	.0	14.6	18.9	.3	.0	131	.0	33.1
-1	.0	.3	4.0	4.8	.3	.0	37	.0	9.3
-2	.0	.5	11.4	7.1	.0	.0	75	.0	18.9
-3	.0	.3	2.3	1.8	.0	.0	17	.0	4.3
-4	.0	1.3	6.6	1.8	.0	.0	38	.0	9.6
-5	.0	.8	.8	.5	.0	.0	8	.0	2.0
-6	.3	.3	.3	.0	.0	.0	3	.0	.8
-7/-8	.0	.0	.8	.0	.0	.0	3	.0	.8
TOTAL	1		170		13			0	396
		13		194		5	396		
PCT	.3	3.3	42.9	49.0	3.3	1.3	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	3.3	1.9	.0	.0	.0	5.3
1-2	.0	18.1	3.3	.0	.0	.0	21.4
3-4	.0	5.6	6.7	.0	.0	.0	12.2
5-6	.0	1.7	.8	.0	.0	.0	2.5
7	.0	1.1	.8	.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	29.7	13.4	.0	.0	.0	43.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.4	.0	.3	.0	.0	.0	1.7
1-2	1.1	10.8	5.6	.0	.0	.0	17.5
3-4	.0	1.1	2.8	.0	.0	.0	3.9
5-6	.0	.3	.0	.0	.0	.0	.3
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	1.1	.0	.0	.0	1.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.5	12.2	10.0	.0	.0	.0	24.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	1.1	.0	.0	.0	.0	1.9
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	1.9	.0	.0	.0	1.9
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	1.1	1.9	.0	.0	.0	3.9

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

JANUARY

TABLE 18 (CONT)

AREA 0008 WEST BORNEO
.7N 107.3E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.7	.0	.0	.0	.0	1.7	.0	.6	.0	.0	.0	.0	.6
3-4	.0	1.9	1.1	.0	.0	.0	3.1	.0	1.4	.0	.0	.0	.0	1.4
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.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	3.6	1.1	.0	.0	.0	5.8	.0	1.9	.0	.0	.0	.0	1.9

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	1.1	
1-2	.0	1.1	.0	.0	.0	.0	1.1	2.2	1.1	.0	.0	.0	.0	3.3	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	3.3	3.1	.0	.0	.0	6.4	
5-6	.0	.0	1.1	.0	.0	.0	1.1	.0	2.5	1.4	.0	.0	.0	3.9	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	1.1	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.1	1.1	.0	.0	.0	2.2	2.2	8.1	5.6	.0	.0	.0	15.8	97.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.4	5.3	2.1	.0	.0	.0	14.9	
1-2	4.3	33.0	6.5	.0	.0	.0	43.7	
3-4	.0	12.5	14.9	.0	.0	.0	27.7	
5-6	.0	4.3	3.2	.0	.0	.0	7.4	
7	.0	1.1	1.1	.0	.0	.0	2.1	
8-9	.0	.0	2.1	.0	.0	.0	2.1	
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	
								94
TOT PCT	11.7	56.4	31.9	.0	.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	6.3	23.8	23.1	8.1	1.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	101	3
6-7	.0	1.9	8.6	3.8	3.8	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	5
8-9	.0	.0	1.9	.6	6.3	.6	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	7
10-11	.0	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	3
12-13	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	7
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	5.0	1.9	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	1
TOTAL	18	45	51	20	20	4	2	0	0	0	0	0	0	0	0	0	0	0	0	160	3
PCT	11.3	28.1	31.9	12.5	12.5	2.5	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1920-1973
(OVER-ALL) 1956-1973

AREA 0008 WEST BOKNED
.7N 107.4F

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.1	.6	.6	.0	.0	.0	.0	3.3	.6	1.6	.3	.0	1.0	1.2		92.0
NE	3.4	1.1	1.9	.0	.0	.0	.0	6.5	.0	1.1	.3	.0	.0	.0		92.7
E	22.7	.0	3.0	.0	.0	.0	.0	25.8	6.1	.0	.0	.0	.0	.0		68.2
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	28.6	.0	.0	.0	.0	.0		71.4
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
NW	1.4	.0	.0	.0	.0	.0	.0	1.4	.0	.7	.0	.0	.7	.0		97.2
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	25.0	.0	.0	.0	.0		75.0
TOT PCT	3.2	.7	1.2	.0	.0	.0	.0	5.1	.7	1.6	.2	.0	.5	.5		91.7
TOT OBS:	432															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER 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	3.3	.0	.0	.0	.0	.0	.0	3.3	.8	.0	.0	.0	.8	.8		94.3
06E09	5.6	.0	.9	.0	.0	.0	.0	6.5	.9	.0	.0	.0	.0	.0		92.5
12E15	1.0	2.0	2.0	.0	.0	.0	.0	4.9	.0	2.9	.0	.0	1.0	.0		91.2
18E21	3.7	.9	1.9	.0	.0	.0	.0	6.5	.9	3.7	.9	.0	.0	.9		87.9
TOT PCT	3.4	.7	1.1	.0	.0	.0	.0	5.3	.7	1.6	.2	.0	.5	.5		91.6
TOT OBS:	438															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	22.9	11.2	.4	.0	.0		37.2	9.2	32.8	31.8	41.4	41.1	39.2	39.5	36.0	34.0
NE	2.6	22.4	9.8	.3	.0	.0		35.2	9.0	34.8	47.0	33.4	34.6	28.6	53.9	31.1	40.7
E	.4	4.1	.8	.0	.0	.0		5.4	7.2	7.0	11.0	6.5	4.9	4.3	1.3	3.7	4.1
SE	.3	1.5	*	.0	.0	.0		1.9	5.9	2.2	4.2	1.9	2.0	.5	.0	2.1	1.9
S	.5	.5	.1	.0	.0	.0		1.1	4.5	.6	1.7	.6	1.6	.5	.0	1.8	1.5
SW	.5	.7	.2	.0	.0	.0		1.5	5.5	1.9	.0	.3	3.3	2.0	.0	2.5	.7
W	.5	1.4	.3	.0	.0	.0		2.2	6.7	3.0	.0	1.0	2.0	4.1	.0	2.5	2.2
NW	.8	8.1	2.2	*	.0	.0		11.2	7.8	13.3	2.5	11.0	9.8	16.1	5.3	13.5	7.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.4							4.4	.0	4.4	1.7	3.9	.8	4.6	.0	6.7	7.5
TOT OBS	129	622	250	8	0	0	1009		8.2	180	59	181	123	151	38	163	134
TOT PCT	12.8	61.6	24.8	.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	12.0	22.8	2.5	.0	.0		37.2	9.2	32.5	41.3	39.3	35.1
NE	11.5	21.7	2.1	.0	.0		35.2	9.0	38.1	33.9	33.7	35.4
E	3.0	2.2	.1	.0	.0		5.4	7.2	8.1	5.8	3.7	3.9
SE	1.2	.7	.0	.0	.0		1.9	5.9	2.7	2.0	.4	2.0
S	.9	.1	.0	.0	.0		1.1	4.5	.9	1.0	.4	1.7
SW	1.2	.3	.0	.0	.0		1.5	5.5	1.4	1.5	1.6	1.7
W	1.2	1.0	.0	.0	.0		2.2	6.7	2.2	1.4	3.3	2.4
NW	5.3	5.5	.3	.0	.0		11.2	7.8	10.4	10.5	13.9	10.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.4						4.4	.0	3.7	2.6	3.7	7.1
TOT OBS	410	548	51	0	0	1009		8.2	219	304	189	297
TOT PCT	40.6	54.3	5.1	.0	.0		100.0		100.0	100.0	100.0	100.0

FEBRUARY

PERIOD: (PRIMARY) 1920-1973
(OVER-ALL) 1856-1973

AREA 0008 WEST BORNEO
.7N 107.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
				WIND SPEED (KNOTS)						
00603	3.7	9.6	63.5	21.9	1.4	.0	.0	8.2	100.0	219
06609	2.6	6.3	62.8	27.6	.7	.0	.0	8.8	100.0	304
12615	3.7	7.4	62.4	25.9	.5	.0	.0	8.4	100.0	189
18621	7.1	10.4	58.6	23.2	.7	.0	.0	7.5	100.0	297
TOT	44	85	622	250	8	0	0	8.2		1009
PCT	4.4	8.4	61.6	24.8	.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	7.1	3.9	24.5	8.2		5.5
NE	3.5	6.2	20.6	6.7		5.6
E	1.0	.0	.9	1.0		5.1
SE	.0	.5	.0	.0		3.0
S	.0	.0	.0	.0		.0
SW	.0	.0	.5	.0		7.0
W	.4	.4	.8	.9		5.9
NW	1.9	.9	5.3	1.7		5.4
VAR	.0	.0	.0	.0		.0
CALM	.5	.5	1.0	1.0		5.5
TOT OBS	28	24	104	38	194	5.5
TOT PCT	14.4	12.4	53.6	19.6	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 499	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	1.2	4.5	5.2	2.6	1.0	.0	.0	.0	29.3	
NE	.0	.0	.3	3.6	4.8	3.0	2.6	.0	.0	.0	22.8	
E	.0	.0	.5	.0	.9	.0	.0	.0	.0	.0	1.5	
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	
W	.0	.0	.0	.4	.5	.0	.0	.0	.0	.0	1.5	
NW	.0	.0	.1	.3	1.0	1.2	.0	.0	.0	.0	7.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	2.1	
TOT OBS	0	1	4	18	24	13	7	0	0	0	127	194
TOT PCT	.0	.5	2.1	9.3	12.4	6.7	3.6	.0	.0	.0	65.5	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >500YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
* OR >2000	6.1	9.1	10.2	10.2	10.2	10.2	10.2	10.2
* OR >1000	17.8	21.3	22.8	22.8	22.8	22.8	22.8	22.8
* OR >600	24.4	30.5	32.0	32.0	32.0	32.0	32.0	32.0
* OR >300	25.9	32.5	34.0	34.0	34.0	34.0	34.0	34.0
* OR >150	26.4	33.0	34.5	34.5	34.5	34.5	34.5	34.5
* OR > 0	26.4	33.0	34.5	34.5	34.5	34.5	34.5	34.5
TOTAL	52	65	68	68	68	68	68	68

TOTAL NUMBER OF OBS: 197 PCT FREQ NH <5/8: 65.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
2.9	14.2	20.1	18.6	10.3	11.4	9.3	5.4	7.8	.0	204

FEBRUARY

PERIOD: (PRIMARY) 1920-1973
(OVER-ALL) 1854-1973

AREA 0008 WEST BORNEO
.7N 107.4E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.5	
1<2	PCP	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.5	
	NO PCP	.9	.3	.0	.0	.0	.0	.0	.0	.0	.0	.7	
	TOT %	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	1.2	
2<5	PCP	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.9	
	NO PCP	.9	.4	.0	.5	.2	.0	.0	.2	.0	.0	1.6	
	TOT %	.9	1.3	.0	.5	.2	.0	.0	.2	.0	.0	2.5	
5<10	PCP	.8	.8	.3	.0	.0	.0	.0	.1	.0	.0	2.1	
	NO PCP	4.7	4.4	.6	.0	.0	.1	.8	1.9	.0	.2	15.7	
	TOT %	7.9	6.3	.9	.0	.0	.1	.8	2.0	.0	.2	17.8	
10+	PCP	.2	.5	.6	.0	.0	.0	.0	.0	.0	.0	1.4	
	NO PCP	30.1	33.2	2.3	1.0	.2	.7	1.3	6.2	.0	1.6	76.6	
	TOT %	30.9	33.7	2.9	1.0	.2	.7	1.3	6.2	.0	1.6	78.0	
	TOT OBS												432
	TOT PCT	38.9	42.1	3.8	1.6	.4	.8	2.1	8.4	.0	1.9	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.6	.2	.0	.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 %	.1	.6	.2	.0	.0	.0	.0	.0	.0	.0	.8	
1/2<1	0-3	.1	.0	.0	.0	.0	.1	.1	.0	.0	.0	.3	
	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 %	.1	.1	.0	.0	.0	.1	.1	.0	.0	.0	.4	
1<2	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.1	.1	.0	.1	.0	.0	.1	.1	.0		.6	
	11-21	.0	.0	.0	.0	.0	.0	.1	.1	.0		.1	
	22+	.3	.3	.0	.0	.0	.0	.0	.0	.0		.6	
	TOT %	.5	.4	.0	.1	.0	.0	.2	.1	.0	.0	1.4	
2<5	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.7	.8	.1	.4	.1	.1	.0	.0	.0		2.3	
	11-21	.1	.4	.0	.0	.0	.1	.0	.1	.0		.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.9	1.4	.1	.4	.1	.3	.0	.1	.0	.0	3.3	
5<10	0-3	.5	.1	.0	.0	.0	.0	.3	.0	.0	.4	1.3	
	4-10	3.4	4.2	.5	.3	.0	.0	.1	1.0	.0		9.5	
	11-21	2.2	1.1	.4	.0	.0	.1	.1	.6	.0		4.5	
	22+	.1	.1	.0	.0	.0	.0	.0	.0	.0		.3	
	TOT %	6.2	5.6	.8	.3	.0	.1	.6	1.5	.0	.4	15.6	
10+	0-3	2.2	2.4	.3	.4	.3	.4	.1	.8	.0	2.8	9.6	
	4-10	20.2	20.3	2.8	.8	.3	.4	.7	6.3	.0		51.8	
	11-21	8.3	7.6	.1	.0	.0	.1	.2	.7	.0		17.0	
	22+	.1	.0	.0	.0	.0	.0	.0	*	.0		.1	
	TOT %	30.8	30.2	3.3	1.1	.6	.8	1.0	7.8	.0	2.8	78.5	
	TOT OBS												707
	TOT PCT	38.6	38.3	4.4	1.9	.7	1.3	1.9	9.6	.0	3.3	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1920-1973
(OVER-ALL) 1856-1973

AREA 0008 WEST BORNEO
.7N 107.4E

TABLE 10

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

HOUR (GMT)	000 149	150 299	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	1.7	1.7	8.5	20.3	5.1	3.4	.0	.0	.0	40.7	59.3	59
06E09	.0	.0	5.8	3.8	9.6	7.7	7.7	.0	.0	.0	34.6	65.4	52
12E15	.0	.0	.0	17.5	15.0	2.5	.0	.0	.0	.0	35.0	65.0	40
18E21	.0	.0	.0	7.7	3.8	9.6	1.9	.0	.0	.0	23.1	76.9	52
TOT	0	1	4	18	25	13	7	0	0	0	68	135	203
PCT	.0	.5	2.0	8.9	12.3	6.4	3.4	.0	.0	.0	33.5	66.5	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	1.7	.6	1.7	1.2	11.0	83.7	172
06E09	.5	.0	1.6	2.2	11.5	84.1	182
12E15	.7	.0	1.3	4.0	20.0	74.0	150
18E21	.5	1.0	1.0	5.3	20.1	72.2	209
TOT	6	3	10	23	112	559	713
PCT	.9	.4	1.4	3.2	15.7	78.4	100.0

TABLE 12

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

HOUR (GMT)	<150 <500YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	3.5	12.3	29.8	57.9	57
06E09	.0	5.9	11.8	23.5	64.7	51
12E15	.0	.0	20.5	15.4	64.1	39
18E21	.0	.0	10.0	14.0	76.0	50
TOT	0	5	26	42	129	197
PCT	.0	2.5	13.2	21.3	65.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.4	.0	.0	.0	1	.6
85/89	.0	.0	.0	.6	.6	4.2	1.2	.0	11	6.6
80/84	.0	.0	.0	.0	1.2	29.2	39.5	7.2	117	70.1
75/79	.0	.0	.0	.0	.0	2.4	11.4	9.0	38	22.8
TOTAL	0	0	0	1	4	48	87	27	167	100.0
PCT	.0	.0	.0	.6	2.4	28.7	52.1	16.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.6	.0	.0	.0	.0	.0	.0	.0	.0	.0
3.9	1.5	1.2	.0	.0	.0	.0	.0	.0	.0
28.6	24.9	1.0	.6	.0	.6	2.8	7.9	.0	3.6
10.5	7.8	2.1	.0	.0	.3	.3	1.8	.0	.0
43.6	34.1	4.3	.6	.0	.9	3.1	9.7	.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
00E03	89	88	84	81	77	75	73	80.6	218
06E09	92	90	86	82	78	75	75	81.9	301
12E15	90	86	84	81	77	74	73	80.8	187
18E21	84	83	82	80	76	73	72	79.7	296
TOT	92	88	85	81	77	75	72	80.8	1002

TABLE 16

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	61.7	14.9	84	47
06E09	.0	2.4	7.3	48.8	34.1	7.3	78	41
12E15	.0	.0	2.9	28.6	54.3	14.3	82	35
18E21	.0	.0	.0	18.3	57.1	26.5	85	49
TOT	0	1	4	49	90	28	82	172

FEBRUARY

PERIOD: (PRIMARY) 1920-1973
(OVER-ALL) 1856-1973

AREA 0008 WEST BORNEO
.7N 107.4E

TABLE 17

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

AIR-SEA THP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.3	1	.0	.3
11/13	.0	.0	.0	.3	.0	1	.0	.3
9/10	.0	.0	.0	.3	.0	1	.0	.3
7/8	.0	.0	.0	.3	.5	3	.0	.8
6	.0	.0	.0	.5	.0	2	.0	.5
5	.0	.5	.5	.8	.3	8	.0	2.1
4	.0	.0	2.3	1.5	.0	15	.0	3.9
3	.0	.0	.8	1.0	.0	7	.0	1.8
2	.0	.5	7.5	1.0	.0	35	.0	9.0
1	.0	1.0	7.2	.8	.0	35	.0	9.0
0	1.5	9.3	23.1	.0	.0	132	.3	33.7
-1	.0	3.9	6.4	.0	.0	40	.0	10.3
-2	1.3	6.5	8.2	.0	.0	70	.0	18.0
-3	.3	3.1	1.3	.0	.0	18	.0	4.6
-4	.8	2.8	1.0	.0	.0	18	.0	4.6
-5	.3	.0	.3	.0	.0	2	.0	.5
-6	.0	.3	.0	.0	.0	1	.0	.3
TOTAL	16	116	228	25	4	389	1	388
PCT	4.1	29.7	58.6	6.5	1.0	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	.8	2.3	.0	.0	.0	.0	3.2
1-2	1.7	12.8	4.4	.0	.0	.0	18.9
3-4	.6	9.5	11.8	.6	.0	.0	22.5
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	3.2	24.6	19.5	.6	.0	.0	47.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.4	.0	.0	.0	.0	3.4
1-2	2.5	12.0	4.0	.0	.0	.0	18.5
3-4	.0	2.1	8.8	.0	.0	.0	10.9
5-6	.0	.0	2.5	.0	.0	.0	2.5
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	2.5	17.4	16.2	.0	.0	.0	36.1

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	2.5	.0	.0	.0	.0	2.5
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	.0	3.4	.0	.0	.0	.0	3.4

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

PERIOD: (OVER-ALL) 1963-1973

FEBRUARY

TABLE 18 (CONT)

AREA 0008 WEST BORNEO
.7N 107.4E

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

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

	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	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	1.9	
1-2	.0	1.3	.0	.0	.0	.0	1.3	.0	2.5	.8	.0	.0	.0	3.4	
3-4	.0	.0	.6	.0	.0	.0	.6	.2	.2	.6	.2	.0	.0	1.3	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.3	.6	.0	.0	.0	1.9	.2	4.6	1.5	.2	.0	.0	6.5	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	5.8	7.4	.0	.0	.0	.0	13.2	
1-2	4.1	31.4	9.1	.0	.0	.0	44.6	
3-4	.8	12.4	21.5	.8	.0	.0	35.5	
5-6	.0	.0	5.8	.0	.0	.0	5.8	
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	10.7	51.2	37.2	.8	.0	.0	100.0	121

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	7.7	78.0	70.2	5.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	103	2
6-7	.0	2.4	8.9	6.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35	4
8-9	.0	.6	1.8	1.2	.6	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	5
10-11	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	2
12-13	.0	.0	.0	.6	.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	
INDET	4.2	3.0	2.4	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	2
TOTAL	20	59	56	23	7	3	0	0	0	0	0	0	0	0	0	0	0	0	0	168	3
PCT	11.9	35.1	33.3	13.7	4.2	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MARCH

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

AREA 0008 WEST BORNEO
.6N 107.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	3.4	.8	1.1	.0	.0	.0	.0	5.3	.0	.6	.9	.0	.0	.0		93.2
NE	2.3	1.6	.4	.0	.0	.0	.0	4.2	1.4	2.3	.4	.0	.0	.8		90.7
E	3.1	.0	.0	.0	.0	.0	.0	3.1	.0	.0	.0	.0	2.5	.0		94.4
SE	2.0	7.8	.0	.0	.0	.0	.0	9.8	.0	.0	.0	.0	.0	.0		90.2
S	6.9	5.2	6.9	.0	.0	.0	.0	19.0	6.9	.0	.0	.0	.0	.0		74.1
SW	5.1	2.6	.0	.0	.0	.0	.0	7.7	10.3	.0	.0	.0	.0	.0		82.1
W	3.1	.0	.0	.0	.0	.0	.0	3.1	6.3	6.3	.0	.0	.0	.0		84.4
NW	2.1	.0	.0	.0	.0	.0	.0	2.1	.0	.5	.5	.0	.0	.0		96.9
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	11.5	.0	.0	.0	.0		88.5
TOT PCT	2.8	1.2	.7	.0	.0	.0	.0	4.7	1.2	1.9	.5	.0	.2	.2		91.4
TOT OBS:	428															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.7	2.7	.9	.0	.0	.0	.0	6.3	.9	.0	.0	.0	.0	.0		92.8
06&09	1.6	1.6	.8	.0	.0	.0	.0	4.0	3.2	.0	.0	.0	.0	.8		92.1
12&15	3.8	.0	1.0	.0	.0	.0	.0	4.8	.0	1.0	1.0	.0	1.0	.0		92.4
18&21	4.0	.0	.0	.0	.0	.0	.0	4.0	.0	6.9	1.0	.0	.0	.0		88.1
TOT PCT	2.9	1.1	.7	.0	.0	.0	.0	4.7	1.1	1.6	.5	.0	.2	.2		91.4
TOT OBS:	443															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	20.7	4.6	*	.0	.0		30.1	7.1	30.7	27.8	34.4	34.7	30.2	30.3	23.1	25.8
NE	3.3	17.1	4.0	*	.0	.0		24.4	7.3	24.0	35.2	24.3	21.4	23.5	39.4	22.4	23.7
E	3.7	3.9	.8	.0	.0	.0		7.4	5.6	8.6	12.0	6.8	4.4	5.2	13.6	7.1	9.3
SE	1.5	1.7	.1	.0	.0	.0		3.4	4.2	3.6	.9	3.2	2.0	4.3	3.0	3.2	5.1
S	1.6	1.7	.2	.0	.0	.0		3.5	4.9	2.8	1.9	3.3	4.0	1.2	3.0	5.6	5.1
SW	.8	2.2	.1	.0	.0	.0		3.2	5.5	3.1	1.9	3.2	4.0	2.8	3.0	2.8	4.2
W	1.2	3.4	.3	.0	.0	.0		4.9	5.5	2.9	6.5	2.9	6.5	5.4	.0	7.4	6.4
NW	2.5	7.7	1.1	.1	.0	.0		11.4	6.5	12.7	8.3	8.5	11.7	15.6	4.5	12.3	11.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	11.6							11.8	.0	11.7	5.6	13.6	11.3	11.7	3.0	16.0	8.5
TOT OBS	315	809	117	2	0	0	1043		5.6	154	54	236	124	162	33	162	118
TOT PCT	30.2	58.4	11.2	.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	16.0	13.3	.8	.0	.0		30.1	7.1	29.9	34.5	30.3	24.3
NE	12.6	11.5	.4	.0	.0		24.4	7.3	26.9	23.3	28.2	22.9
E	5.2	1.8	.3	.0	.0		7.4	5.6	9.5	8.0	6.7	8.0
SE	3.0	.4	.0	.0	.0		3.4	4.2	2.9	2.8	4.1	4.0
S	2.6	.9	.0	.0	.0		3.5	4.9	2.5	3.5	1.5	5.4
SW	2.4	.6	.1	.0	.0		3.2	5.5	1.8	3.5	2.8	3.4
W	3.7	1.2	.0	.0	.0		4.9	5.5	3.8	4.1	4.5	7.0
NW	6.8	4.2	.4	.0	.0		11.4	6.5	11.5	9.6	13.7	12.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	11.8						11.8	.0	10.1	12.8	10.3	12.9
TOT OBS	667	355	21	0	0	1043		5.8	208	360	195	280
TOT PCT	64.0	34.0	2.0	.0	.0		100.0		100.0	100.0	100.0	100.0

MARCH

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

AREA 0008 WEST BORNEO
.6N 107.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
				WIND SPEED (KNOTS)						
00603	10.1	19.2	60.6	10.1	.0	.0	.0	5.7	100.0	208
06609	12.8	18.9	56.9	13.1	.3	.0	.0	6.1	100.0	380
12615	10.3	14.4	61.0	14.4	.0	.0	.0	6.3	100.0	195
18621	12.9	22.5	56.8	7.5	.4	.0	.0	5.2	100.0	280
TOT	123	192	609	117	2	0	0	5.8		1043
PCT	11.8	18.4	58.4	11.2	.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	2.7	9.1	13.5	5.0		5.1
NE	4.7	7.6	11.8	3.9		4.8
E	1.0	3.1	3.8	1.7		5.0
SE	.5	1.0	1.3	1.2		5.3
S	.4	.8	2.0	1.0		5.5
SW	.0	.0	1.7	.5		6.7
W	.7	.8	2.4	.8		4.9
NW	.5	1.7	6.9	1.9		5.7
VAR	.0	.0	.0	.0		.0
CALM	1.1	1.1	1.9	1.9		5.1
TOT OBS	30	66	119	47	262	5.1
TOT PCT	11.5	25.2	45.4	17.9	100.0	

TABLE 6

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

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.3	.0	.0	1.5	4.9	.4	.5	.0	.3	.4	22.0	
NE	.0	.0	.0	1.1	3.2	.6	.8	.8	.0	1.5	20.0	
E	.0	.0	.0	.4	1.4	.0	.4	.0	.0	.0	7.3	
SE	.0	.0	.0	.4	.6	.0	.0	.0	.0	.0	3.1	
S	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	3.2	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	
W	.0	.0	.0	.0	1.1	.2	.4	.0	.0	.0	2.9	
NW	.1	.0	.0	.0	2.3	.4	.7	.4	.1	.0	7.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	5.3	
TOT OBS	1	0	0	10	38	5	7	3	1	5	192	262
TOT PCT	.4	.0	.0	3.8	14.5	1.9	2.7	1.1	.4	1.9	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 >500YD	• OR >0
• OR >6500	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
• OR >5000	3.0	3.3	3.3	3.3	3.3	3.3	3.3	3.3
• OR >3500	5.5	5.9	5.9	5.9	5.9	5.9	5.9	5.9
• OR >2000	7.4	7.7	7.7	7.7	7.7	7.7	7.7	7.7
• OR >1000	18.8	20.3	21.0	21.8	22.1	22.1	22.1	22.1
• OR >600	21.4	23.2	24.7	25.5	25.8	25.8	25.8	25.8
• OR >300	21.4	23.2	24.7	25.5	25.8	25.8	25.8	25.8
• OR >150	21.4	23.2	24.7	25.5	25.8	25.8	25.8	25.8
• OR > 0	21.4	23.2	24.7	25.5	25.8	25.8	26.2	26.2
TOTAL	58	63	67	69	70	70	71	71

TOTAL NUMBER OF OBS: 271 PCT FREQ NH <5/8: 73.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
4.2	15.1	25.3	18.2	10.9	11.2	6.3	4.6	3.9	.4	285

MARCH

PERIOD: (PRIMARY) 1919-1973
(OVER-ALL) 1857-1973

AREA 0008 WEST BORNEO
.6N 107.3E

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	.2	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	
	TOT %	.2	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	
1/2<1	PCP	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
1<2	PCP	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.5	
	NO PCP	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.2	.0	.2	.0	.2	.0	.0	.0	.0	.0	.7	
2<5	PCP	.8	.6	.0	.0	.0	.0	.0	.0	.0	.0	1.4	
	NO PCP	.4	.7	.1	.1	.0	.0	.0	.1	.0	.0	1.4	
	TOT %	1.2	1.3	.1	.1	.0	.0	.0	.1	.0	.0	2.8	
5<10	PCP	.6	.2	.1	.0	.2	.1	.0	.2	.0	.0	1.4	
	NO PCP	1.9	3.9	.9	.0	.5	.0	.2	2.2	.0	1.2	10.8	
	TOT %	2.5	4.2	1.0	.0	.6	.1	.2	2.5	.0	1.2	12.2	
10+	PCP	.0	.2	.2	.3	.2	.1	.1	.0	.0	.0	1.2	
	NO PCP	27.0	24.2	7.8	2.3	2.3	2.1	3.4	8.7	.0	4.9	82.7	
	TOT %	27.0	24.4	8.0	2.6	2.5	2.2	3.5	8.7	.0	4.9	83.8	
	TOT OBS												427
	TOT PCT	31.0	30.1	9.3	2.8	3.4	2.4	3.7	11.3	.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	.0	.0	.1	.1	.2	.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	.0	.0	.0	.0	.1	.1	.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	.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	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.1	.1	.1	.0	.0	.0	.0	.0	.0		.4	
	11-21	.1	.0	.0	.0	.1	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.3	.1	.0	.1	.0	.0	.0	.0	.0	.9	
2<5	0-3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.6	.7	.1	.1	.0	.0	.0	.1	.0		1.6	
	11-21	.4	.1	.0	.0	.0	.0	.0	.1	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	1.1	.9	.1	.1	.0	.0	.0	.1	.0	.0	2.3	
5<10	0-3	.0	*	.1	.0	.1	.0	.0	.4	.0	.9	1.6	
	4-10	1.4	1.8	.4	.0	.3	*	.1	1.7	.0		5.6	
	11-21	.9	1.2	.1	.0	.0	.0	.0	.0	.0		2.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	2.3	3.1	.6	.0	.4	*	.1	2.1	.0	.9	9.5	
10+	0-3	3.2	2.6	1.7	.6	.6	.6	1.6	1.5	.0	7.5	20.4	
	4-10	20.5	17.3	3.7	1.3	1.6	1.5	2.9	6.3	.0		55.1	
	11-21	4.3	3.8	.8	.2	.1	.0	.4	1.3	.0		10.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.1	.0		.1	
	TOT %	28.0	23.9	6.2	2.2	2.3	2.4	5.0	9.2	.0	7.5	86.6	
	TOT OBS												695
	TOT PCT	31.8	28.3	7.0	2.3	2.8	2.6	5.3	11.6	.0	8.3	100.0	

MARCH

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

AREA 0008 WEST BORNEO
.6N 107.3E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00Z03	.0	.0	.0	1.5	15.4	3.1	.0	3.1	1.5	.0	24.6	75.4	65
06Z09	.0	.0	.0	1.3	15.4	1.3	6.4	.0	.0	3.8	28.2	71.8	78
12Z15	.0	.0	.0	11.6	5.8	2.9	.0	.0	.0	1.4	21.7	78.3	69
18Z21	1.4	.0	.0	.0	18.8	.0	2.9	1.4	.0	1.4	26.1	73.9	69
TOT	1	0	0	10	39	5	7	3	1	5	71	210	281
PCT	.4	.0	.0	3.6	13.9	1.8	2.5	1.1	.4	1.8	25.3	74.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00Z03	1.2	.0	.6	2.4	8.5	87.2	164
06Z09	.5	.0	.5	.5	8.5	90.0	211
12Z15	.0	.7	2.7	4.8	10.9	81.0	147
18Z21	.5	.0	.5	3.2	11.6	84.1	189
TOT	4	1	7	18	70	611	711
PCT	.4	.1	1.0	2.5	9.8	85.9	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
00Z03	.0	.0	3.1	21.9	75.0	64
06Z09	.0	.0	2.6	26.3	71.1	76
12Z15	.0	1.5	13.4	9.0	77.6	67
18Z21	1.6	1.6	4.7	23.4	71.9	64
TOT	1	2	16	55	200	271
PCT	.4	.7	5.9	20.3	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
90/94	.0	.0	.0	.5	.0	.0	.0	.0	1	.5
85/89	.0	.0	.0	.0	.5	5.0	1.5	.5	15	7.5
80/84	.0	.0	.0	.0	1.0	30.8	43.3	7.0	165	82.1
75/79	.0	.0	.0	.0	.5	.5	5.5	3.5	20	10.0
TOTAL	0	0	0	1	4	73	101	22	201	100.0
PCT	.0	.0	.0	.5	2.0	36.3	50.2	10.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.1	.4	.0	.0	.0	.0	.0	.0	.0
4.1	1.0	.2	.2	1.0	.2	.0	.1	.0	.5
23.5	21.5	6.0	3.4	3.5	1.6	4.9	10.8	.0	7.0
3.0	1.6	3.1	.7	.0	.0	.0	.5	.0	1.0
30.6	24.3	9.7	4.4	4.5	1.9	4.9	11.4	.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
00Z03	90	89	86	81	78	77	77	81.6	205
06Z09	94	91	88	83	79	77	75	83.2	361
12Z15	89	88	85	82	78	75	74	81.7	199
18Z21	88	85	83	81	78	76	75	80.9	281
TOT	94	89	87	82	78	76	74	82.0	1046

TABLE 16

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	22.9	56.3	20.8	84	48
06Z09	.0	1.8	5.5	58.2	25.5	9.1	79	55
12Z15	.0	.0	.0	27.5	64.7	7.8	82	51
18Z21	.0	.0	1.9	37.7	54.7	5.7	82	53
TOT	0	1	4	77	103	22	82	207

MARCH

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

AREA 0008 WEST BORNEO
.6N 107.3E

TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.3	1	.0	.3
6	.0	.0	.0	.0	.3	1	.0	.3
5	.0	.0	.3	1.0	.0	5	.0	1.3
4	.0	.3	1.0	2.0	.3	14	.0	3.5
3	.0	.0	1.0	2.0	.0	12	.0	3.0
2	.0	.3	5.6	2.0	.0	31	.0	7.8
1	.0	.3	5.6	2.0	.0	32	.0	8.1
0	.0	2.5	18.0	.3	.0	82	.0	20.8
-1	.0	3.3	13.2	.3	.0	66	.0	16.7
-2	.5	5.6	16.5	.0	.0	89	.0	22.5
-3	.0	1.0	4.3	.0	.0	21	.0	5.3
-4	.3	2.8	3.5	.0	.0	26	.3	6.3
-5	.5	1.5	.3	.0	.0	9	.0	2.3
-6	.0	.5	.5	.0	.0	4	.0	1.0
-7/-8	.0	.3	.3	.0	.0	2	.3	.3
TOTAL	5	72	276	39	3	395	2	393
PCT	1.3	18.2	69.9	9.9	.8	100.0	.5	99.5

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	1.8	.9	.0	.0	.0	.0	3.6
1-2	.0	11.4	3.2	.0	.0	.0	14.5
3-4	.0	6.9	6.8	.0	.0	.0	13.7
5-6	.0	.0	1.6	.0	.0	.0	1.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.9	.9	.0	.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	1.8	22.0	13.4	.0	.0	.0	37.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.9	.0	.0	.0	.0	1.1
1-2	.9	13.0	2.5	.0	.0	.0	16.4
3-4	.0	3.4	3.9	.0	.0	.0	7.3
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	17.3	6.6	.0	.0	.0	25.0

E

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	3.6	.7	.0	.0	.0	4.3
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	.7	4.3	1.4	.0	.0	.0	6.4

SE

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

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	.9	3.4	.0	.0	.0	.0	4.3	.0	1.1	.0	.0	.0	.0	1.1
3-4	.0	.0	.9	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	3.4	.9	.0	.0	.0	5.2	.0	1.1	.0	.0	.0	.0	1.1

	W							SW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.9	.7	.0	.0	.0	.0	1.6	.0	3.0	.0	.0	.0	.0	3.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.9	1.1	2.7	.0	.0	.0	4.8	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.4	1.4	.0	.0	.0	2.7	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.9	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.9	.7	.0	.0	.0	.0	1.6	.9	5.5	4.1	.9	.0	.0	11.4	89.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	16.7	7.0	.9	.0	.0	.0	24.6	
1-2	3.5	32.5	8.8	.0	.0	.0	44.7	
3-4	.0	13.2	13.2	.0	.0	.0	26.3	
5-6	.0	.0	1.8	.9	.0	.0	2.6	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.9	.9	.0	.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	20.2	53.5	25.4	.9	.0	.0	100.0	114

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	45.1	12.7	1.3	.4	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	154	2
6-7	.0	3.8	3.8	3.8	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	4
8-9	.0	.8	.8	.4	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	4
10-11	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	3
12-13	.0	.0	.0	.0	.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	16.0	1.7	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	43	0
TOTAL	49	122	43	14	5	4	0	0	0	0	0	0	0	0	0	0	0	0	0	237	2
PCT	20.7	51.5	18.1	5.9	2.1	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1909-1971
(OVER-ALL) 1897-1971

AREA 0008 WEST BORNEO
.5N 107.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	7.1	2.8	.0	.0	.0	.0	.0	4.8	.0	4.8	.0	.0	.0	.0	.0	90.3
NE	.5	.0	.0	.0	.0	.0	.0	.5	2.1	.5	.0	.0	.0	.0	.0	96.9
E	3.1	3.1	.0	.0	.0	.0	.0	6.2	3.1	5.4	.0	.0	.0	.0	.0	85.3
SE	4.0	.0	.0	.0	.0	.0	.0	4.0	.0	4.0	.0	.0	4.0	.0	.0	87.9
S	.0	2.4	.0	.0	.0	.0	.0	2.4	8.5	3.7	.0	.0	.0	.0	.0	85.4
SW	3.8	1.9	.0	.0	.0	.0	.0	5.7	8.6	8.6	.0	.0	.0	.0	.0	81.0
W	5.5	5.5	2.7	.0	.0	.0	.0	13.7	11.0	11.0	.0	.0	.0	.0	.0	64.4
NW	.0	5.0	2.5	.0	.0	.0	.0	7.5	5.0	1.3	.0	.0	.0	.0	.0	86.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	.0	.0	.0	.0	.0	95.8
TOT PCT	2.0	2.0	.4	.0	.0	.0	.0	4.4	3.4	4.4	.0	.0	.4	.0	.0	87.6
TOT OBS:	251															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	3.0	4.5	.0	.0	.0	.0	.0	7.6	3.0	.0	.0	.0	.0	.0	.0	89.4
06609	.0	.0	1.5	.0	.0	.0	.0	1.5	5.9	.0	.0	.0	.0	.0	.0	92.6
12615	3.1	.0	.0	.0	.0	.0	.0	3.1	3.1	7.7	.0	.0	.0	.0	.0	87.7
18621	1.7	3.4	.0	.0	.0	.0	.0	5.2	1.7	12.1	.0	.0	1.7	.0	.0	79.3
TOT PCT	1.9	1.9	.4	.0	.0	.0	.0	4.3	3.5	4.7	.0	.0	.4	.0	.0	87.5
TOT OBS:	257															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	3.8	7.6	.5	.0	.0	.0		11.9	5.3	15.0	17.4	11.7	12.9	10.2	14.3	11.9	9.0
NE	4.3	8.2	1.9	.0	.0	.0		14.3	5.8	13.5	13.0	19.3	10.2	12.8	21.4	13.6	10.7
E	2.7	5.2	.9	.0	.0	.0		8.8	5.5	11.5	21.7	10.1	4.3	8.2	19.6	7.0	6.0
SE	2.5	5.8	.5	.0	.0	.0		8.8	5.1	11.7	8.7	11.1	5.4	5.6	8.9	9.7	7.3
S	3.8	6.0	.3	.2	.0	.0		10.2	5.2	9.1	4.3	9.5	10.2	12.2	.0	10.1	13.0
SW	2.8	7.9	.7	.1	.0	.0		11.5	5.8	5.5	6.5	10.0	19.4	13.7	7.1	13.4	10.9
W	2.5	5.5	1.1	.1	.0	.0		9.1	6.2	5.3	6.5	9.6	14.5	10.4	10.7	5.5	10.3
NW	2.3	4.0	.1	.3	.1	.0		6.8	6.5	8.8	4.3	5.6	7.0	6.8	10.7	5.9	8.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	18.5							18.5	.0	19.5	17.4	13.2	16.1	20.1	7.1	22.8	24.8
TOT OBS	378	439	51	6	1	0	875		4.6	113	23	235	93	144	14	136	117
TOT PCT	43.2	50.2	5.8	.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	8.7	3.2	.0	.0	.0		11.9	5.3	15.4	12.0	10.6	10.6
NE	10.3	3.8	.2	.0	.0		14.3	5.8	13.4	16.7	13.6	12.3
E	6.3	2.5	.0	.0	.0		8.8	5.5	13.2	8.5	9.2	6.5
SE	7.2	1.5	.1	.0	.0		8.8	5.1	11.2	9.5	5.9	8.6
S	7.9	2.2	.1	.1	.0		10.2	5.2	8.3	9.7	11.1	11.5
SW	8.4	3.1	.1	.1	.0		11.5	5.8	5.7	12.7	13.1	12.3
W	5.9	2.9	.3	.0	.0		9.1	6.2	5.5	11.0	10.4	7.7
NW	4.7	1.6	.2	.2	.0		6.8	6.5	8.1	6.0	7.1	6.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	18.5						18.5	.0	19.1	14.0	19.0	23.7
TOT OBS	681	182	9	3	0	875		4.6	136	328	158	253
TOT PCT	77.8	20.8	1.0	.3	.0		100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1909-1971
(OVER-ALL) 1857-1971

AREA 0008 WEST BORNEO
.5N 107.3E

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	19.1	25.0	49.3	5.9	.7	.0	.0	4.5	100.0	136
06609	14.0	29.6	47.6	7.6	1.2	.0	.0	4.9	100.0	328
12615	19.0	17.7	56.3	7.0	.9	.0	.0	4.8	100.0	158
18621	23.7	22.5	50.2	2.8	.4	.4	.0	4.1	100.0	253
TOT	142	216	439	51	6	1	0	4.6		875
PCT	16.5	24.7	50.2	5.8	.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	4.7	2.3	5.1	1.1		4.1
NE	2.1	4.4	11.1	2.1		4.1
E	5.1	1.8	4.2	4.1		4.6
SE	4.5	1.8	3.2	2.4		4.1
S	1.5	1.4	3.5	1.1		4.8
SW	1.5	2.3	4.2	.8		4.9
W	.0	1.2	1.5	1.7		6.4
NW	1.7	.6	5.1	.2		5.1
VAR	.0	.0	.0	.0		.0
CALM	1.8	2.4	7.2	.6		4.7
TOT OBS	38	30	75	23	166	4.8
TOT PCT	22.9	18.1	45.2	13.9	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	1.2	1.1	1.8	.0	.0	.0	.0	9.0	
NE	.0	.0	.0	.0	2.0	.6	.6	.0	.0	.0	16.6	
E	.6	.0	.0	.6	1.5	.6	.0	.0	.0	.0	11.9	
SE	.0	.0	.0	1.4	.9	.2	.0	.0	.0	.0	9.5	
S	.0	.0	.0	.5	1.1	1.4	.0	.0	.0	.0	4.5	
SW	.0	.0	.0	.6	1.4	.3	.6	.0	.0	.0	5.9	
W	.6	.0	.0	.0	1.1	.5	.6	.0	.0	.0	1.7	
NW	.0	.0	.0	.0	1.4	.6	.0	.0	.0	.0	5.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	11.4	
TOT OBS	2	0	0	8	17	10	3	0	0	0	126	166
TOT PCT	1.2	.0	.0	4.8	10.2	6.0	1.8	.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 >500YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	1.2	1.8	1.8	1.8	1.8	1.8	1.8	1.8
* OR >2000	7.1	7.7	7.7	7.7	7.7	7.7	7.7	7.7
* OR >1000	15.4	17.8	17.8	17.8	17.8	17.8	17.8	17.8
* OR >600	17.8	22.5	22.5	22.5	22.5	22.5	22.5	22.5
* OR >300	17.8	22.5	22.5	22.5	22.5	22.5	22.5	22.5
* OR >150	17.8	22.5	22.5	22.5	22.5	22.5	22.5	22.5
* OR > 0	17.8	22.5	23.1	23.1	23.1	23.1	23.1	23.1
TOTAL	30	38	39	39	39	39	39	39

TOTAL NUMBER OF OBS: 169 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
3.4	15.8	33.3	16.4	7.9	8.5	5.1	5.1	3.4	1.1	177

APRIL

PERIOD: (PRIMARY) 1909-1971
(OVER-ALL) 1857-1971

AREA 0008 WES BORNEO
.5N 107.3E

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	.4	.0	.0	.0	.0	.4	
	TOT %	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	
1<2	PCP	.0	.0	.0	.0	.0	.0	.6	.2	.0	.0	.8	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.6	.2	.0	.0	.8	
2<5	PCP	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.8	
	NO PCP	.4	.0	.0	.4	.0	.4	.4	.0	.0	.0	1.6	
	TOT %	.4	.0	.4	.4	.0	.8	.4	.0	.0	.0	2.4	
5<10	PCP	.7	.1	.0	.4	.0	.0	.0	.0	.0	.0	1.2	
	NO PCP	.6	2.7	.0	1.9	1.0	.4	.8	.8	.0	.4	9.2	
	TOT %	1.3	2.8	.0	2.3	1.0	.4	.8	.8	.0	.4	10.4	
10+	PCP	.0	.0	.4	.0	.2	.2	.0	.4	.0	.0	1.2	
	NO PCP	12.9	16.8	11.5	7.2	6.7	8.6	5.1	6.6	.0	9.2	84.7	
	TOT %	12.9	16.8	11.9	7.2	6.9	8.8	5.1	7.0	.0	9.2	85.9	
	TOT OBS												249
	TOT PCT	14.6	19.6	13.0	9.9	7.9	10.4	6.9	8.0	.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	.2	.0	.0	.0	.0	.2	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
1<2	0-3	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	.2	
	4-10	.0	.0	.0	.0	.0	.0	.3	.1	.0		.4	
	11-21	.0	.0	.0	.1	.1	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.1	.1	.1	.5	.1	.0	.0	.8	
2<5	0-3	.2	.0	.2	.0	.0	.0	.2	.0	.0	.0	.6	
	4-10	.0	.0	.2	.4	.0	.4	.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 %	.2	.0	.4	.4	.0	.4	.2	.0	.0	.0	1.7	
5<10	0-3	.0	.2	.0	.4	.0	.2	.0	.0	.0	.4	1.2	
	4-10	.7	1.2	.3	.5	.9	.2	.8	.4	.0		5.2	
	11-21	.0	.0	.0	.4	.0	.0	.0	.0	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.7	1.5	.3	1.4	.9	.4	.8	.4	.0	.4	6.8	
10+	0-3	2.6	4.3	2.2	1.8	3.3	2.0	2.0	2.0	.0	19.3	39.4	
	4-10	6.4	8.0	6.3	5.5	6.2	7.5	4.0	3.5	.0		47.5	
	11-21	.0	2.1	1.0	.0	.0	.2	.3	.0	.0		3.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	9.0	14.4	9.5	7.4	9.5	9.6	6.3	5.5	.0	19.3	90.5	
	TOT OBS												482
	TOT PCT	9.9	15.8	10.2	9.3	10.5	10.7	7.8	6.0	.0	10.7	100.0	

APRIL

PERIOD: (PRIMARY) 1909-1971
(OVER-ALL) 1857-1971

AREA 0008 WEST BORNEO
.5N 107.3E

TABLE 10

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

HOUR (GMT)	000 149	150 299	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	.0	.0	4.3	6.5	6.5	.0	.0	.0	.0	19.6	80.4	46
06Z09	.0	.0	.0	5.9	5.9	9.8	5.9	.0	.0	.0	27.5	72.5	51
12Z15	.0	.0	.0	4.3	10.9	2.2	.0	.0	.0	.0	17.4	82.6	46
18Z21	3.0	.0	.0	3.0	18.2	3.0	.0	.0	.0	.0	27.3	72.7	33
TOT	2	0	0	8	17	10	3	0	0	0	40	136	176
PCT	1.1	.0	.0	4.5	9.7	5.7	1.7	.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	.0	1.1	3.2	6.3	89.5	95
06Z09	.0	.7	1.4	.0	5.7	92.2	141
12Z15	.0	.0	.9	4.6	3.7	90.7	108
18Z21	.0	.0	.0	.0	10.4	89.6	144
TOT	0	1	4	8	33	442	488
PCT	.0	.2	.8	1.6	6.8	90.6	100.0

TABLE 12

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

HOUR (GMT)	<150 <5UYD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00Z03	2.2	2.2	6.5	13.0	80.4	46
06Z09	.0	.0	5.9	21.6	72.5	51
12Z15	.0	.0	4.8	14.3	81.0	42
18Z21	.0	.0	3.3	23.3	73.3	30
TOT	1	1	9	30	130	169
PCT	.6	.6	5.3	17.8	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
95/99	.0	.0	.0	.7	.0	.0	.0	.0	1	.7
90/94	.0	.0	.0	.0	1.3	.0	.0	.0	2	1.3
85/89	.0	.0	.0	.0	4.0	11.4	.0	.7	24	16.1
80/84	.0	.0	.0	.0	1.3	31.5	43.6	3.4	119	79.9
75/79	.0	.0	.0	.0	.0	.0	.7	1.3	3	2.0
TOTAL	0	0	0	1	10	64	65	8	149	100.0
PCT	.0	.0	.0	.7	6.7	43.0	44.3	5.4		

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
	.7	.2	.5	.0	.0	.0	.0	.0	.0	.0
	.7	2.7	3.7	3.0	.7	2.0	.5	.2	.0	2.7
	6.9	13.6	11.6	9.4	6.9	8.6	4.4	7.9	.0	8.7
	.5	.8	.0	.0	.0	.7	.0	.0	.0	.0
	10.7	17.3	15.8	13.1	7.6	11.2	4.9	8.1	.0	11.4

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	94	91	86	82	78	77	76	82.5	139
06Z09	95	94	91	84	79	76	72	84.6	322
12Z15	89	88	86	83	80	78	78	82.7	157
18Z21	89	86	84	82	80	75	75	82.0	252
TOT	95	93	88	83	79	76	72	83.2	870

TABLE 16

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	2.8	41.7	50.0	5.6	80	36
06Z09	.0	2.6	18.4	55.3	18.4	5.3	76	38
12Z15	.0	.0	4.5	40.9	50.0	4.5	80	44
18Z21	.0	.0	.0	29.4	64.7	5.9	82	34
TOT	0	4	10	64	69	8	79	152

APRIL

PERIOD: (PRIMARY) 1909-1971
(OVER-ALL) 1857-1971

AREA 0008 WEST BORNEO
.5N 107.3E

TABLE 17

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

AIR-SEA TMP DIF	77 80	81 84	85 88	89 92	>92	TOT	% FOG	NO FOG
11/13	.0	.0	.4	.0	.0	1	.0	.4
7/8	.0	.0	.4	.0	.4	2	.0	.9
5	.0	.0	.4	.0	.4	2	.0	.9
4	.0	1.3	.9	.4	.0	6	.0	2.6
3	.4	.4	.9	.0	.0	4	.0	1.7
2	.4	3.0	4.7	.9	.0	21	.0	8.9
1	.0	3.4	2.6	.0	.0	14	.0	6.0
0	1.7	9.8	4.3	.0	.0	37	.0	15.7
-1	.9	14.9	2.6	.0	.0	43	.0	18.3
-2	1.7	17.0	.9	.0	.0	46	.0	19.6
-3	.9	8.1	.0	.0	.0	21	.0	8.9
-4	2.1	7.7	.4	.0	.0	24	.0	10.2
-5	1.7	1.3	.0	.0	.0	7	.0	3.0
-6	.0	1.7	.0	.0	.0	4	.0	1.7
-7/-8	.4	.4	.0	.0	.0	2	.0	.9
-11/-13	.0	.4	.0	.0	0	1	.0	.4
TOTAL	24	163	43	9	2	235	0	235
PCT	10.2	69.4	18.3	1.3	.9	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	.9	.9	.0	.0	.0	.0	1.8
1-2	1.2	10.7	.0	.0	.0	.0	11.9
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	2.1	11.6	.0	.0	.0	.0	13.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.5	1.5	1.2	.0	.0	.0	4.3
1-2	1.2	5.5	2.4	.0	.0	.0	9.1
3-4	.0	2.4	3.7	.0	.0	.0	6.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.7	9.5	7.3	.0	.0	.0	19.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9
1-2	.0	8.8	.0	.0	.0	.0	8.8
3-4	.0	2.4	1.2	.0	.0	.0	3.7
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	12.2	1.2	.0	.0	.0	13.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.4	.3	.0	.0	.0	.0	2.7
1-2	.3	10.7	.0	.0	.0	.0	11.0
3-4	.0	1.2	1.2	.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	2.7	12.2	1.2	.0	.0	.0	16.2

PERIOD: (OVER-ALL) 1963-1971

APRIL

TABLE 18 (CONT)

AREA 0008 WEST BURNED
.5N 107.3E

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	1.2	3.7	.0	.0	.0	.0	4.9
1-2	.9	3.4	.0	.0	.0	.0	4.3	.0	4.9	.3	.0	.0	.0	5.2
3-4	.0	.9	.0	.0	.0	.0	.9	.0	.3	.0	.0	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	4.3	.0	.0	.0	.0	5.2	1.2	9.0	.3	.0	.0	.0	10.4

				W										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	.9	.0	.0	.0	.9	2.4	6.1	.0	.0	.0	.0	8.5	
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	.9	.0	.0	.0	.9	2.4	6.1	.0	.0	.0	.0	8.5	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	20.2	7.1	1.2	.0	.0	.0	28.6	
1-2	8.0	48.8	3.6	.0	.0	.0	48.3	
3-4	.0	7.1	6.0	.0	.0	.0	13.1	
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	
								84
TOT PCT	28.2	63.1	10.7	.0	.0	.0	100.0	

PERIOD: (OVER-ALL) 1969-1971

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	13.5	49.4	9.8	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	99	2
6-7	.0	3.0	3.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	3
8-9	.0	1.5	.8	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	3
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	12.8	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	0
TOTAL	35	75	18	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	133	2
PCT	26.3	56.4	13.5	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MAY

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

AREA 0008 WEST BORNEO
.5N 107.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.7	.0	.0	.0	.0	91.3
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	.0	.0	7.3	.0	.0	.0	.0	7.3	5.5	.0	.0	.0	.0	.0	87.3
SE	1.8	1.8	.4	.0	.0	.0	.0	4.0	2.2	3.0	.0	.0	.0	.0	90.2
S	.4	.7	2.6	.0	.0	.0	.0	6.3	5.5	1.5	.0	.0	.0	.0	86.7
SW	2.4	1.2	.0	.0	.0	.0	.0	3.5	2.9	4.7	.0	.0	.0	.0	88.8
W	4.3	.0	.0	.0	.0	.0	.0	4.3	.0	3.3	.0	.0	.0	.0	92.4
NW	4.3	.0	8.7	.0	.0	.0	.0	13.0	4.3	1.1	.0	.0	.0	.0	81.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	8.7	.0	.0	.0	.0	.0	8.7	4.3	8.7	.0	.0	.0	.0	78.3
TOT PCT	2.6	1.5	1.9	.0	.0	.0	.0	5.6	3.4	3.4	.0	.0	.0	.0	87.7
TOT OBS:	268														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TYPE	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	1.5	3.0	1.5	.0	.0	.0	.0	6.1	4.5	.0	.0	.0	.0	.0	89.4
06609	3.9	2.6	2.6	.0	.0	.0	.0	9.1	3.9	.0	.0	.0	.0	.0	87.0
12615	.0	.0	1.5	.0	.0	.0	.0	1.5	3.1	3.1	.0	.0	.0	.0	92.3
18621	4.3	2.9	1.4	.0	.0	.0	.0	7.1	1.4	11.4	.0	.0	.0	.0	80.0
TOT PCT	2.5	2.2	1.8	.0	.0	.0	.0	6.1	3.2	3.6	.0	.0	.0	.0	87.1
TOT OBS:	278														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	1.7	.1	.1	.0	.0		3.5	5.4	.8	5.3	2.1	3.2	5.3	2.8	5.0	5.7
NE	1.4	1.8	.1	.0	.0	.0		3.2	4.7	3.5	2.6	3.6	1.6	4.3	2.8	1.5	4.2
E	.8	5.6	.3	.0	.0	.0		6.7	6.1	8.5	13.2	8.5	4.2	4.1	.0	7.5	5.2
SE	2.7	13.9	2.5	.0	.0	.0		19.1	7.1	27.1	15.8	23.0	15.8	14.7	13.9	15.4	15.1
S	5.3	18.0	2.6	.0	.0	.0		25.6	6.6	29.1	13.2	25.1	26.3	31.2	25.0	23.3	27.4
SW	3.1	10.9	2.0	.0	.0	.0		16.1	6.6	14.0	25.3	15.0	17.9	19.9	16.7	16.0	12.7
W	1.7	4.9	1.3	.0	.0	.0		6.9	7.2	5.8	5.3	5.6	12.1	7.5	16.7	5.6	6.1
NW	1.9	3.2	.8	.0	.0	.0		5.9	6.3	3.5	18.4	6.4	6.3	3.9	16.7	6.3	5.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	12.9							12.9	.0	13.5	.0	13.5	12.6	9.0	5.6	19.2	17.9
TOT OBS	269	511	85	1	0	0	866		5.7	130	19	235	95	133	18	130	106
TOT PCT	31.1	59.0	9.8	.1	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.7	.6	.1	.1	.0		3.5	5.4	1.3	2.4	5.0	5.3
NE	2.5	.7	.0	.0	.0		3.2	4.7	3.4	3.0	4.1	2.8
E	4.7	1.8	.1	.0	.0		6.7	6.1	9.1	7.3	3.6	6.5
SE	9.7	9.2	.2	.0	.0		19.1	7.1	25.7	20.9	14.6	15.3
S	14.8	10.2	.6	.0	.0		25.6	6.6	21.8	25.5	30.5	25.2
SW	9.8	5.9	.4	.0	.0		16.1	6.6	15.6	15.8	19.5	14.5
W	3.5	3.1	.3	.0	.0		6.9	7.2	5.7	7.5	8.6	5.8
NW	4.0	1.4	.5	.0	.0		5.9	6.3	5.4	6.4	5.5	6.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	12.9						12.9	.0	12.1	11.2	8.6	18.6
TOT OBS	560	285	20	1	0	866		5.7	149	330	151	236
TOT PCT	64.7	32.9	2.3	.1	.0		100.0		100.0	100.0	100.0	100.0

MAY

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

AREA 0008 WEST BORNEO
.5N 107.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	12.1	17.4	60.4	10.1	.0	.0	.0	5.8	100.0	149
06&09	11.2	19.4	56.7	12.4	.3	.0	.0	5.9	100.0	330
12&15	8.6	17.2	63.6	10.6	.0	.0	.0	6.2	100.0	151
18&21	18.6	17.4	58.5	5.5	.0	.0	.0	5.1	100.0	236
TOT	112	157	511	85	1	0	0	5.7		866
PCT	12.9	18.1	59.0	9.8	.1	.0	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.7	1.2	1.4	.0		4.6
NE	.0	2.3	.0	.0		3.3
E	1.2	1.9	1.7	.0		3.6
SE	2.8	5.6	7.8	1.0		4.4
S	5.2	6.8	11.3	5.4		5.0
SW	3.3	2.6	8.0	4.0		5.3
W	1.0	1.6	3.8	1.4		5.4
NW	1.7	.3	2.8	.7		5.2
VAR	.0	.0	.0	.0		.0
CALM	4.2	4.9	2.8	.7		3.5
TOT OBS	29	39	57	19	144	4.7
TOT PCT	20.1	27.1	39.6	13.2	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	1.4	.0	.0	.0	.0	.0	1.9	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	
E	.0	.0	.0	.0	.7	.5	.0	.0	.0	.0	3.6	
SE	.0	.0	.0	1.4	2.3	.9	.0	.0	.0	.0	12.7	
S	.0	.0	.0	.0	3.6	1.2	.0	.0	.0	.0	23.8	
SW	.0	.0	.0	.7	2.4	2.3	.7	.0	.0	.0	11.8	
W	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	7.3	
NW	.0	.0	.0	.9	.0	.0	.0	.0	.7	.0	4.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	11.8	
TOT OBS	0	0	1	5	15	7	1	0	1	0	114	144
TOT PCT	.0	.0	.7	3.5	10.4	4.9	.7	.0	.7	.0	79.2	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >500YD	* OR >0
* OR >6500	.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 >300	16.1	20.1	20.1	20.1	21.5	21.5	21.5	21.5
* OR >150	16.1	20.1	20.1	20.1	21.5	21.5	21.5	21.5
* OR > 0	16.1	20.1	20.1	20.1	21.5	21.5	21.5	21.5
TOTAL	24	30	30	30	32	32	32	32

TOTAL NUMBER OF OBS: 149 PCT FREQ NH <5/8: 78.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
.6	22.2	24.6	20.4	7.8	9.6	4.8	4.8	5.4	.0	167

MAY

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

AREA 0008 WEST BORNEO
.5N 107.3E

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	.4	.0	.0	.0	.0	.0	.0	.4	
	NO PCP	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	
	TOT %	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.7	
1<2	PCP	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	
2<5	PCP	.0	.0	.4	.0	.0	.0	.0	.4	.0	.0	.7	
	NO PCP	.0	.0	.0	.2	.2	.4	.0	.0	.0	.0	.7	
	TOT %	.0	.0	.4	.2	.2	.4	.0	.4	.0	.0	1.5	
5<10	PCP	.0	.0	.0	.4	.4	.0	.0	.7	.0	.4	1.9	
	NO PCP	1.9	.0	1.3	5.3	3.0	2.0	1.4	1.6	.0	.7	16.8	
	TOT %	1.9	.0	1.3	5.7	3.4	2.0	1.4	2.3	.0	1.1	18.7	
10+	PCP	.0	.0	.0	.1	1.2	.4	.0	.0	.0	.4	2.2	
	NO PCP	2.8	2.7	3.5	14.6	20.5	12.6	6.8	5.9	.0	7.1	76.5	
	TOT %	2.8	2.7	3.5	14.7	21.7	13.2	6.8	5.9	.0	7.5	78.7	
	TOT OBS												268
	TOT PCT	4.3	2.7	5.1	21.0	25.3	15.9	8.6	8.6	.0	8.6	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	.2	.0	.2	.0	.0	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.4	
1<2	0-3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.0	.0	.0	.2	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.3	.1	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.0	.0	.0	.2	.0	.3	.1	.0	.0	.8	
2<5	0-3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.4	
	4-10	.0	.0	.2	.1	.2	.4	.1	.2	.0		1.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.2	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.0	.2	.1	.2	.4	.1	.4	.0	.2	1.8	
5<10	0-3	.4	.0	.0	.6	.5	.3	.2	.5	.0	1.0	3.4	
	4-10	.3	.2	.6	1.9	1.4	1.1	.8	.6	.0		6.9	
	11-21	.0	.0	.1	.8	.2	.3	.2	.5	.0		2.0	
	22+	.2	.0	.0	.0	.0	.0	.0	.0	.0		.2	
	TOT %	.9	.2	.7	3.3	2.0	1.7	1.2	1.6	.0	1.0	12.5	
10+	0-3	1.0	.9	.8	1.7	3.4	2.0	1.6	2.0	.0	12.1	25.5	
	4-10	2.0	1.2	3.1	10.4	17.0	10.2	5.1	3.2	.0		52.1	
	11-21	.1	.0	.3	2.2	1.8	1.2	1.0	.4	.0		6.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	3.1	2.1	4.2	14.2	22.2	13.4	7.9	5.5	.0	12.1	84.4	
	TOT OBS												495
	TOT PCT	4.4	2.3	5.1	17.8	24.6	15.7	9.2	7.6	.0	13.3	100.0	

MAY

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

AREA 0008 WEST BORNEO
.SN 107.3F

TABLE 10

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

HOUR (GMT)	000 149	150 299	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	3.0	9.1	.0	.0	.0	.0	.0	12.1	87.9	33
06E09	.0	.0	.0	9.1	6.8	9.1	2.3	.0	2.3	.0	29.5	70.5	44
12E15	.0	.0	.0	.0	10.3	2.6	.0	.0	.0	.0	12.8	87.2	39
18E21	.0	.0	2.4	2.4	14.3	4.8	.0	.0	.0	.0	23.8	76.2	42
TOT	0	0	1	6	16	7	1	0	1	0	32	126	158
PCT	.0	.0	.6	3.8	10.1	4.4	.6	.0	.6	.0	20.3	79.7	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	2.0	1.0	2.0	11.1	83.8	99
06E09	.0	.0	1.3	.0	11.1	87.6	153
12E15	.0	.0	.9	2.8	13.1	83.2	107
18E21	.0	.7	.7	2.7	14.4	81.5	146
TOT	0	3	5	9	63	425	505
PCT	.0	.6	1.0	1.8	12.5	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
00E03	.0	6.5	6.5	6.5	87.1	31
06E09	.0	.0	9.5	21.4	69.0	42
12E15	.0	.0	.0	13.9	86.1	36
18E21	.0	2.5	5.0	20.0	75.0	40
TOT	0	3	8	24	117	149
PCT	.0	2.0	5.4	16.1	78.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.7	.0	.0	.0	1	.7
85/89	.0	.0	.0	.0	2.6	19.0	9.2	1.3	49	32.0
80/84	.0	.0	.0	.0	.7	24.8	32.7	5.2	97	63.4
75/79	.0	.0	.0	.0	.0	.0	.7	3.3	6	3.9
TOTAL	0	0	0	0	6	67	65	15	153	100.0
PCT	.0	.0	.0	.0	3.9	43.8	42.5	9.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.7	.0	.0	.0	.0	.0
.0	1.3	1.5	9.0	8.8	3.8	2.0	1.8	.0	3.9
1.3	.8	4.6	14.7	15.2	9.3	4.9	4.7	.0	7.8
1.3	.0	.0	.0	1.3	.7	.0	.0	.0	.7
2.6	2.1	6.0	23.7	26.0	13.7	6.9	6.5	.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	94	89	86	83	79	76	75	83.2	151
06E09	94	91	89	85	80	75	73	84.5	328
12E15	89	88	86	83	79	77	73	83.0	147
18E21	89	86	85	83	79	73	75	82.6	233
TOT	94	90	87	83	80	77	73	83.5	859

TABLE 16

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	34.3	54.3	11.4	82	35
06E09	.0	.0	10.8	54.1	29.7	5.4	77	37
12E15	.0	.0	5.0	47.5	40.0	7.5	79	40
18E21	.0	.0	.0	38.2	51.1	12.8	82	47
TOT	0	0	6	68	70	15	80	159

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

AREA 0008 WEST BORNEO
.5N 107.3E

TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	>92	TOT	% FOG	% FOG
9/10	.0	.0	.0	.0	.0	.8	2	.0	.8
7/8	.0	.0	1.9	.0	.0	.0	5	.0	1.9
6	.0	.0	.4	.0	.0	.0	1	.0	.4
5	.0	.0	.0	.0	.4	.0	1	.0	.4
4	.0	.0	1.1	.8	.4	.0	5	.0	2.3
3	.0	.0	.4	1.5	1.5	.0	9	.0	3.4
2	.0	.0	1.5	4.6	.0	.0	16	.0	6.1
1	.0	.0	2.7	4.4	.0	.0	19	.0	7.2
0	.8	.0	8.7	7.6	.0	.0	45	.0	17.1
-1	.0	.0	9.1	4.6	.0	.0	36	.0	13.7
-2	.4	.0	18.6	1.1	.0	.0	53	.0	20.2
-3	.0	.0	8.0	1.1	.4	.0	25	.0	9.5
-4	.0	.8	9.1	.0	.0	.0	26	.0	9.9
-5	.4	.0	1.5	.8	.0	.0	7	.0	2.7
-6	.0	.4	1.1	.4	.0	.0	5	.0	1.9
-7/-8	.0	1.1	.4	.0	.0	.0	4	.0	1.5
-9/-10	.0	.8	.0	.0	.0	.0	2	.0	.8
-11/-13	.0	.4	.0	.0	.0	.0	1	.0	.4
TOTAL	4	9	170	71	7	2	263	0	263
PCT	1.5	3.4	64.6	27.0	2.7	.8	100.0		100.0

PERIOD: (OVER-ALL) 1943-1972

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.4	.0	.0	.0	.0	1.4
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	1.4	.0	.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	1.4	1.4	.0	.0	.0	.0	2.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.4	.0	.0	.0	.0	1.4
1-2	.0	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	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.8	.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	.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	2.8	5.9	.0	.0	.0	.0	8.7
1-2	2.1	3.1	.0	.0	.0	.0	5.2
3-4	.0	4.2	5.6	.0	.0	.0	9.7
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	4.9	13.2	5.6	.0	.0	.0	23.6

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	2.4	.0	.0	.0	.0	2.4	1.4	.4	.0	.0	.0	.0	1.7
1-2	2.1	16.3	2.8	.0	.0	.0	21.2	.0	8.3	.0	.0	.0	.0	8.3
3-4	.0	2.4	.0	.0	.0	.0	2.4	.0	.7	.0	.0	.0	.0	.7
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	1.4
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.1	21.2	2.8	.0	.0	.0	26.0	1.4	9.4	1.4	.0	.0	.0	12.2

	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	1.0	.0	.0	.0	.0	1.0	.0	1.4	.0	.0	.0	.0	1.4	
1-2	.0	1.0	1.0	.0	.0	.0	2.1	1.4	3.1	.3	.0	.0	.0	4.9	
3-4	.0	1.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	3.1	1.0	.0	.0	.0	4.2	1.4	4.5	.3	.0	.0	.0	6.3	77.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	27.4	13.7	.0	.0	.0	.0	41.1	
1-2	5.5	32.9	4.1	.0	.0	.0	42.5	
3-4	1.4	8.2	5.5	.0	.0	.0	15.1	
5-6	.0	.0	1.4	.0	.0	.0	1.4	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								73
TOT PCT	34.2	54.3	11.0	.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	11.7	34.4	8.6	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	75	2
6-7	.0	3.1	7.8	1.6	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	3
8-9	.0	1.6	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	4
10-11	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	23.4	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	0
TOTAL	45	51	21	8	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	128	2
PCT	35.2	39.8	16.4	6.3	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1910-1972
(OVER-ALL) 1856-1972

AREA 0008 WEST BORNEO
.6N 107.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	9.8	.0	.0	.0	.0	.0	.0	9.8	36.6	7.3	.0	.0	.0	.0		46.3
NE	.0	.0	.0	.0	.0	.0	.0	.0	10.4	.0	.0	.0	.0	.0		89.6
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
SE	.0	1.7	.8	.0	.0	.0	.0	2.5	.0	.4	.0	.0	.0	.0		97.1
S	4.3	.9	.6	.0	.0	.0	.0	5.7	1.1	4.8	1.1	.0	1.1	.0		86.1
SW	.9	.9	.0	.0	.0	.0	.0	1.7	6.8	5.1	.0	.0	.0	.0		86.3
W	.0	4.4	5.9	.0	.0	.0	.0	10.3	5.9	.0	.0	.0	.0	.0		83.8
NW	.0	3.8	.0	.0	.0	.0	.0	3.8	15.4	3.8	.0	.0	.0	.0		76.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
TOT PCT	2.0	1.2	.8	.0	.0	.0	.0	4.0	4.0	2.8	.4	.0	.4	.0		88.4
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 FRZN PCPN	HAIL	PCPN AT OB 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	2.9	1.4	.0	.0	.0	.0	.0	4.2	2.9	.0	1.4	.0	1.4	.0		89.9
06Z09	1.7	1.7	3.3	.0	.0	.0	.0	6.7	3.3	.0	.0	.0	.0	.0		90.0
12Z15	.0	1.3	.0	.0	.0	.0	.0	1.3	7.9	2.6	.0	.0	.0	.0		88.2
18Z21	5.6	.0	.0	.0	.0	.0	.0	5.6	1.9	11.1	.0	.0	.0	.0		81.5
TOT PCT	2.3	1.2	.8	.0	.0	.0	.0	4.2	4.2	3.1	.4	.0	.4	.0		87.6
TOT OBS:	259															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	3	06	09	12	15	18	21
N	1.4	1.2	.0	.0	.0	.0		2.6	4.3	1.5	3.6	4.2	3.4	2.5	.0	2.1	.9
NE	.7	1.7	.2	.0	.0	.0		2.6	5.3	1.5	21.4	1.5	4.3	2.8	5.9	1.1	3.1
E	1.1	6.1	.7	.0	.0	.0		7.8	6.4	8.7	10.7	6.7	6.7	5.6	.0	8.2	13.2
SE	2.9	17.0	4.2	.0	.0	.0		24.0	7.6	27.4	17.9	29.3	19.2	22.4	8.8	20.0	23.2
S	4.1	21.3	5.7	.1	.0	.0		31.1	7.4	32.5	14.3	27.4	28.4	37.4	52.9	34.9	25.4
SW	1.3	9.4	2.3	.1	.0	.0		13.1	7.9	12.5	10.7	12.6	17.5	9.9	26.5	14.9	11.4
W	1.3	4.1	.9	.1	.0	.0		6.3	6.9	7.5	3.6	6.6	4.6	8.8	.0	5.7	4.4
NW	1.1	2.2	.4	.0	.0	.0		3.8	6.3	2.1	3.6	3.5	4.3	4.6	.0	5.3	3.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.6							8.6	.0	6.2	14.3	8.0	11.5	6.0	5.9	7.6	14.9
TOT OBS	202	569	130	2	0	0	903		6.6	146	14	226	104	151	17	131	114
TOT PCT	22.4	63.0	14.4	.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	2.1	.5	.0	.0	.0		2.6	4.3	1.7	3.9	2.2	1.5
NE	2.1	.5	.0	.0	.0		2.6	5.3	3.3	2.4	3.1	2.0
E	5.0	2.7	.2	.0	.0		7.8	6.4	4.9	6.7	5.1	10.5
SE	11.2	12.0	.8	.0	.0		24.0	7.6	26.6	26.1	21.0	21.5
S	15.4	14.9	.9	.0	.0		31.1	7.4	30.9	27.7	39.0	30.5
SW	5.8	6.5	.8	.0	.0		13.1	7.9	12.3	14.2	11.6	13.3
W	3.8	2.0	.4	.0	.0		6.3	6.9	7.2	6.0	7.9	5.1
NW	2.2	1.6	.0	.0	.0		3.8	6.3	2.2	3.8	4.2	4.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	8.6						8.6	.0	6.9	9.1	6.0	11.0
TOT OBS	508	367	28	0	0	903		6.6	160	330	168	245
TOT PCT	56.3	40.6	3.1	.0	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1910-1972
(OVER-ALL) 1856-1972

AREA 0008 WEST BORNEO
.4N 107.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	6.9	15.6	61.3	16.3	.0	.0	.0	6.7	100.0	160
06&09	9.1	12.7	62.1	15.8	.3	.0	.0	6.7	100.0	330
12&15	6.0	14.9	62.5	16.7	.0	.0	.0	7.1	100.0	168
18&21	11.0	13.1	65.7	9.8	.4	.0	.0	6.0	100.0	245
TOT	78	124	569	130	2	0	0	6.6		903
PCT	8.6	13.7	63.0	14.4	.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	1.8	1.3	2.3		6.3
NE	.3	.0	1.3	1.0		6.1
E	1.5	.7	3.6	.0		4.4
SE	5.9	6.1	10.7	2.6		4.6
S	7.1	7.9	12.0	7.1		4.5
SW	1.0	.7	3.6	5.6		6.3
W	.0	2.3	4.1	1.8		5.5
NW	.0	.3	1.5	.7		6.5
VAR	.0	.0	.0	.0		.0
CALM	.0	2.0	3.3	.0		5.3
TOT OBS	24	33	63	32	152	5.1
TOT PCT	15.8	21.7	41.4	21.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >5/8) 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	2.3	.0	.0	.0	.0	.0	2.5	
NE	.0	.0	.7	.0	.3	.7	.0	.0	.0	.0	1.0	
E	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	4.8	
SE	.0	.7	1.0	.8	.7	.2	.0	.7	.0	.7	20.7	
S	.0	.0	.3	2.0	2.5	1.8	.0	.0	.0	.0	27.5	
SW	.0	.0	.0	.3	2.1	.2	.7	.0	.0	.0	7.6	
W	.0	.0	.0	1.6	.5	.0	.0	.0	.0	.0	6.1	
NW	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	1.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.7	.7	.0	.0	.0	.0	.0	3.9	
TOT OBS	0	1	3	10	15	5	1	1	0	1	115	152
TOT PCT	.0	.7	2.0	6.6	9.9	3.3	.7	.7	.0	.7	75.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >5/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >500YD	* OR >0
* OR >6500	.6	.6	.6	.6	.6	.6	.6	.6
* OR >5000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
* OR >3500	1.3	1.9	1.9	1.9	1.9	1.9	1.9	1.9
* OR >2000	4.4	5.1	5.1	5.1	5.1	5.1	5.1	5.1
* OR >1000	13.3	15.2	15.2	15.2	15.2	15.2	15.2	15.2
* OR >600	18.4	21.5	21.5	21.5	21.5	21.5	21.5	21.5
* OR >300	19.6	23.4	24.1	24.1	24.1	24.1	24.1	24.1
* OR >150	20.3	24.1	24.7	24.7	24.7	24.7	24.7	24.7
* OR > 0	20.3	24.1	24.7	24.7	24.7	24.7	24.7	24.7
TOTAL	32	38	39	39	39	39	39	39

TOTAL NUMBER OF OBS: 158 PCT FREQ NH <5/8: 75.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
2.3	16.9	27.1	16.9	11.9	6.8	2.3	4.0	11.9	.0	177

JUNE

PERIOD: (PRIMARY) 1910-1972
(OVER-ALL) 1856-1972

AREA 0008 WEST BORNEO
.4N 107.3E

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	.4	.0	.0	.0	.4	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	
2<5	PCP	.0	.0	.0	.0	.0	.0	.3	.1	.0	.0	.4	
	NO PCP	.0	.0	.0	.4	1.2	.0	.0	.0	.0	.0	1.6	
	TOT %	.0	.0	.0	.4	1.2	.0	.3	.1	.0	.0	2.0	
5<10	PCP	.0	.0	.0	.0	.7	.1	.0	.0	.0	.0	.8	
	NO PCP	.0	.4	.2	4.9	3.0	2.4	2.0	.4	.0	.4	13.8	
	TOT %	.0	.4	.2	4.9	3.7	2.5	2.0	.4	.0	.4	14.6	
10+	PCP	.4	.0	.0	.6	1.3	.1	.0	.0	.0	.0	2.4	
	NO PCP	3.7	4.5	5.4	18.1	28.9	9.2	4.1	2.1	.0	4.5	80.6	
	TOT %	4.1	4.5	5.4	18.7	30.3	9.3	4.1	2.1	.0	4.5	83.0	
	TOT OBS												247
	TOT PCT	4.1	4.9	5.6	24.0	35.2	11.8	5.9	2.6	.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	.0	.0	.0	
	4-10	.0	.0	.0	.3	.3	.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	.0	.3	.3	.0	.0	.0	.0	.0	.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.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	.2	.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	.0	.2	.0	.0	.0	.2	
2<5	0-3	.0	.0	.1	.1	.0	.1	.3	.1	.0	.0	.6	
	4-10	.0	.0	.0	.4	.6	.3	.0	.0	.0		1.1	
	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	.1	.5	.6	.3	.3	.1	.0	.0	1.9	
5<10	0-3	.0	.0	.0	.2	.0	.2	.3	.1	.0	.4	1.3	
	4-10	.0	.2	.5	1.6	1.3	1.6	1.0	.2	.0		6.5	
	11-21	.0	.0	.0	1.1	1.0	.2	.1	.0	.0		2.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	.5	2.9	2.4	2.0	1.4	.3	.0	.4	10.2	
10+	0-3	1.3	1.0	1.2	1.5	3.7	.8	1.3	.9	.0	6.5	18.1	
	4-10	1.5	1.2	5.7	15.7	20.0	9.0	2.8	.9	.0		55.7	
	11-21	.0	.4	.6	3.3	5.7	.2	.4	.5	.0		13.2	
	22+	.0	.0	.0	.0	.0	[illegible]	.0	.0	.0		.0	
	TOT %	2.8	2.6	7.5	20.5	29.5	[illegible]	4.5	2.3	.0	6.5	87.0	
	TOT OBS												463
	TOT PCT	2.8	2.8	8.2	24.2	32.8	13.3	6.4	2.7	.0	6.9	100.0	

JUNE

PERIOD: (PRIMARY) 1910-1972
(OVER-ALL) 1856-1972

AREA 0008 WEST BORNEO
.4N 107.3E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00Z03	.0	.0	6.3	4.2	12.5	4.2	.0	.0	.0	2.1	29.2	70.8	48
06Z09	.0	2.6	2.6	5.1	5.1	2.6	.0	2.6	.0	.0	20.5	79.5	39
12Z15	.0	.0	.0	5.9	3.9	3.9	.0	.0	.0	.0	13.7	86.3	51
18Z21	.0	.0	.0	8.8	17.6	.0	2.9	.0	.0	.0	29.4	70.6	34
TOT		1	4	10	16	5	1	1	0	1	39	133	172
PCT	.0	.6	2.3	5.8	9.3	2.9	.6	.6	.0	.6	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	.0	.0	2.9	12.6	84.5	103
06Z09	.8	.0	.8	.8	7.2	90.4	125
12Z15	.9	.0	.0	3.5	10.6	85.0	113
18Z21	.8	.0	.0	.8	12.1	86.4	132
TOT	3	0	1	9	50	410	473
PCT	.6	.0	.2	1.9	10.6	86.7	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
00Z03	.0	6.5	10.9	19.6	69.6	46
06Z09	.0	5.7	14.3	11.4	74.3	35
12Z15	.0	.0	6.5	8.7	84.8	46
18Z21	.0	.0	9.7	22.6	67.7	31
TOT	0	5	16	24	118	158
PCT	.0	3.2	10.1	15.2	74.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.0	.0	.0	.0	1	.6
85/89	.0	.0	.0	.0	1.7	10.3	9.8	1.1	40	23.0
80/84	.0	.0	.0	.0	1.7	31.6	31.6	6.3	124	71.3
75/79	.0	.0	.0	.0	.0	.0	3.4	1.7	9	5.2
TOTAL	0	0	0	0	4	74	78	16	174	100.0
PCT	.0	.0	.0	.0	3.4	42.5	44.8	9.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.6	.0	.0	.0	.0	.0
1.0	1.6	1.7	5.5	6.8	.6	2.9	.1	.0	2.9
3.7	1.6	4.2	21.4	23.3	8.9	4.3	1.6	.0	2.3
.0	.0	.0	.0	1.7	1.1	.6	1.1	.0	.0
4.7	3.2	5.9	27.4	32.3	10.6	7.8	2.9	.0	5.2

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	90	88	86	83	79	76	75	82.9	156
06Z09	94	91	88	84	79	76	75	84.1	328
12Z15	88	87	86	83	80	77	77	83.2	165
18Z21	86	85	85	83	79	75	74	82.5	243
TOT	94	89	87	83	79	76	74	83.3	892

TABLE 16

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	35.4	54.2	10.4	81	48
06Z09	.0	.0	7.5	45.0	40.0	7.5	79	40
12Z15	.0	.0	3.8	41.5	43.4	11.3	81	53
18Z21	.0	.0	2.4	50.0	40.5	7.1	80	42
TOT	0	0	6	78	82	17	80	183

JUNE

PERIOD: (PRIMARY) 1910-1972
(OVER-ALL) 1956-1972

AREA 0008 WEST BORNEO
.4N 107.3E

TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	# FOG	#0 FOG
7/8	.0	.0	.0	.9	.0	2	.0	.9
5	.0	.0	1.3	.4	.9	6	.0	2.6
4	.0	.0	1.3	.0	.0	3	.0	1.3
3	.0	.0	.0	.4	.4	2	.0	.9
2	.0	.0	1.7	3.4	.4	13	.0	5.6
1	.0	.0	3.4	4.7	.0	19	.0	8.2
0	.0	.0	13.8	2.2	.0	37	.0	15.9
-1	.0	.0	6.9	3.9	.0	25	.0	10.8
-2	.0	.9	14.2	3.9	.0	44	.0	19.0
-3	.0	.9	8.6	1.3	.0	25	.0	10.8
-4	.0	3.4	8.2	.4	.0	28	.0	12.1
-5	.0	1.3	2.2	.9	.0	10	.0	4.3
-6	.0	.4	1.7	.0	.0	5	.0	2.2
-7/-8	.4	1.3	2.2	.0	.0	9	.0	3.9
-9/-10	.4	.9	.0	.0	.0	3	.0	1.3
-11/-13	.4	.0	.0	.0	.0	1	.0	.4
TOTAL	3	21	152	52	4	232	0	232
PCT	1.3	9.1	65.5	22.4	1.7	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	1.3	.0	.0	.0	.0	1.3
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.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	.0	1.3	.0	.0	.0	.0	1.3
1-2	.0	.3	.0	.0	.0	.0	.3
3-4	.0	.0	1.9	.0	.0	.0	1.9
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.6	1.3	.0	.0	.0	2.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3
1-2	.0	3.1	.0	.0	.0	.0	3.1
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.9	.0	.0	.0	.9
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.4	.9	.0	.0	.0	5.3

SE

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	1.6	11.3	.3	.0	.0	.0	13.1
3-4	.0	6.6	2.8	.0	.0	.0	9.4
5-6	.0	.0	2.8	.0	.0	.0	2.8
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	.3	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.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	20.3	5.9	.0	.0	.0	27.8

PERIOD: (OVER-ALL) 1963-1972 JUNE AREA 00U8 WEST BORNEO

TABLE 18 (CONT) .4N 107.3E

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	2.2	11.9	4.4	.0	.0	.0	16.4	.0	3.4	4.1	.0	.0	.0	7.5
3-4	.0	10.3	2.2	.0	.0	.0	12.5	.0	3.1	3.6	.0	.0	.0	6.7
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	2.2	22.2	6.6	.0	.0	.0	30.9	.0	6.6	7.8	.0	.0	.0	14.4

	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	.9	.0	.0	.0	.0	.0	.9	.3	.0	.0	.0	.0	.0	.3	
1-2	1.3	4.4	.0	.0	.0	.0	5.6	.0	1.9	2.5	.0	.0	.0	4.4	
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	2.2	4.4	.0	.0	.0	.0	6.6	.3	1.9	2.5	.0	.0	.0	4.7	93.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	9.5	8.3	.0	.0	.0	.0	17.9	
1-2	4.8	34.5	10.7	.0	.0	.0	50.0	
3-4	.0	19.0	9.5	.0	.0	.0	28.6	
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	14.3	61.9	23.8	.0	.0	.0	100.0	84

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	9.0	33.6	29.1	3.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	102	2
6-7	.0	.7	3.0	3.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	4
8-9	.0	.7	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	4
10-11	.0	1.5	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	2
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	9.0	.7	.7	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	1
TOTAL	24	50	45	12	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	134	2
PCT	17.9	37.3	33.6	9.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1906-1972
(OVER-ALL) 1855-1972

AREA 0008 WEST BORNEO
.4N 107.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.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
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
SE	.7	3.4	.0	.0	.0	.0	.0	[illegible].1	.0	3.0	.0	.0	1.4	.0		91.6
S	2.6	2.6	.0	.0	.0	.0	.0	5.3	2.6	3.2	.0	.0	.0	.0		88.9
SW	12.9	3.0	3.0	.0	.0	.0	.0	18.9	3.0	6.1	.0	.0	.0	.0		72.0
W	9.9	.0	5.6	.0	.0	.0	.0	15.5	14.1	4.2	.0	.0	5.6	.0		80.6
NW	20.0	.0	.0	.0	.0	.0	.0	20.0	20.0	.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	33.3	.0	.0	.0	.0		66.7
TOT PCT	4.2	2.5	.8	.0	.0	.0	.0	7.5	2.9	4.2	.0	.0	.8	.0		84.6
TOT OBS:	240															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER 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	5.1	1.7	.0	.0	.0	.0	.0	6.8	1.7	.0	.0	.0	1.7	.0		89.8
06&09	1.4	4.3	.0	.0	.0	.0	.0	5.7	2.9	.0	.0	.0	.0	.0		91.4
12&15	3.3	1.7	.0	.0	.0	.0	.0	5.0	3.3	5.0	.0	.0	.0	.0		86.7
18&21	7.4	1.9	3.7	.0	.0	.0	.0	13.0	3.7	14.8	.0	.0	1.9	.0		66.7
TOT PCT	4.1	2.5	.8	.0	.0	.0	.0	7.4	2.9	4.5	.0	.0	.8	.0		84.4
TOT OBS:	243															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.2	.4	.1	.0	.0	.0		.7	4.8	.4	.0	.2	2.3	1.6	.0	.0	.0
NE	.4	.5	.2	.0	.0	.0		1.1	6.1	1.1	.0	2.1	.9	.3	.0	.0	2.3
E	.6	4.7	1.1	.1	.0	.0		6.7	7.4	7.1	3.1	8.8	2.8	4.4	4.2	6.5	9.5
SE	1.3	16.5	11.0	.5	.0	.0		29.3	10.0	30.8	42.2	33.8	22.9	23.5	35.4	27.2	32.4
S	1.7	24.0	12.1	.5	.0	.0		38.4	9.6	40.4	39.1	35.3	46.0	42.1	39.6	38.3	30.2
SW	1.2	8.3	3.3	.3	.0	.0		13.1	8.8	8.5	9.4	12.9	13.8	16.6	6.3	13.4	14.4
W	.6	1.9	1.1	.2	.0	.0		3.7	9.3	2.6	.0	3.6	4.2	4.8	14.6	3.5	3.2
NW	.3	1.6	.7	.0	.0	.0		2.6	8.3	3.0	6.3	1.7	4.2	3.9	.0	2.3	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.4							4.4	.0	5.3	.0	1.7	2.8	2.6	.0	8.7	8.1
TOT OBS	99	531	272	15	0	0	917		8.9	133	16	237	107	152	12	149	111
TOT PCT	10.8	57.9	29.7	1.6	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.6	.1	.0	.0	.0		.7	4.8	.3	.9	1.5	.0
NE	.9	.2	.1	.0	.0		1.1	6.1	1.0	4.7	.3	1.0
E	3.8	2.4	.5	.0	.0		6.7	7.4	6.7	8.9	4.4	7.8
SE	8.0	18.7	2.6	.0	.0		29.3	10.0	32.0	30.4	24.4	29.4
S	10.3	25.3	2.6	.2	.0		38.4	9.6	40.3	38.7	41.9	34.8
SW	5.5	6.2	1.5	.0	.0		13.1	8.8	8.6	13.2	15.9	13.8
W	1.4	1.9	.3	.1	.0		3.7	9.3	2.3	3.8	5.5	3.4
NW	1.1	1.4	.2	.0	.0		2.6	8.3	4.0	2.5	3.7	1.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.4						4.4	.0	4.7	2.0	2.4	8.5
TOT OBS	329	514	71	3	0	917		8.9	149	344	164	260
TOT PCT	35.9	56.1	7.7	.3	.0		100.0		100.0	100.0	100.0	100.0

JULY

PERIOD: (PRIMARY) 1906-1972
(OVER-ALL) 1859-1972

AREA 0008 WEST BORNEO
.4N 107.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	4.7	5.4	60.4	28.2	1.3	.0	.0	8.7	100.0	149
06&09	2.0	4.4	57.0	33.4	3.2	.0	.0	10.0	100.0	344
12&15	2.4	8.5	55.5	32.9	.6	.0	.0	9.0	100.0	164
18&21	8.3	8.5	59.2	23.3	.4	.0	.0	7.6	100.0	260
TOT	40	59	531	272	19	0	0	8.9		917
PCT	4.4	6.4	57.9	29.7	1.6	.0	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.6	.0		4.0
NE	.0	.0	.0	.0		.0
E	.0	.0	1.8	.6		6.3
SE	5.4	8.0	13.5	3.5		4.4
S	6.3	9.3	12.8	11.9		5.1
SW	2.4	1.3	5.9	3.7		5.3
W	.6	.0	3.2	3.4		6.6
NW	.0	.0	1.3	.6		6.6
VAR	.0	.0	.0	.0		.0
CALM	.6	1.3	1.3	.6		4.6
TOT OBS	24	31	63	38	156	5.1
TOT PCT	15.4	19.9	40.4	24.4	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	300 499	500 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
E	.0	.0	.0	.0	.0	.6	.0	.0	.6	.0	1.1	
SE	.0	.0	.0	1.6	2.7	.6	1.1	.0	.3	.0	24.0	
S	.0	.0	.0	4.6	5.3	.5	2.1	.0	.3	.0	27.4	
SW	.0	.0	.0	1.6	1.8	1.0	1.3	.6	.0	.0	7.1	
W	.0	.0	.0	.5	1.8	1.8	.0	.0	.0	.0	3.2	
NW	.0	.0	.0	.0	.0	.0	.0	.6	.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	3.8	
TOT OBS	0	0	0	13	18	7	9	1	3	0	105	156
TOT PCT	.0	.0	.0	8.3	11.5	4.5	5.8	.6	1.9	.0	67.3	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	1.3	1.9	1.9	1.9	1.9	1.9	1.9	1.9
• OR >5000	1.9	2.5	2.5	2.5	2.5	2.5	2.5	2.5
• OR >3500	7.6	8.2	8.2	8.2	8.2	8.2	8.2	8.2
• OR >2000	10.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7
• OR >1000	20.3	22.8	24.1	24.1	24.1	24.1	24.1	24.1
• OR >600	24.7	31.0	32.3	32.3	32.3	32.3	32.3	32.3
• OR >300	24.7	31.0	32.3	32.3	32.3	32.3	32.3	32.3
• OR >150	24.7	31.0	32.3	32.3	32.3	32.3	32.3	32.3
• OR > 0	24.7	31.0	32.3	32.3	32.3	32.3	32.3	32.3
TOTAL	39	49	51	51	51	51	51	51

TOTAL NUMBER OF OBS: 158 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
7.1	12.0	16.4	16.9	13.1	11.8	6.6	5.5	10.9	.0	183

JULY

PERIOD: (PRIMARY) 1906-1972
(OVER-ALL) 1859-1972

AREA 0008 WEST BORNEO
.4N 107.4E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	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	.4	.0	.0	.0	.0	.0	.4	
1<2	NO PCP	.0	.0	.0	.4	.0	.0	.8	.4	.0	.0	1.7	
	TOT %	.0	.0	.0	.4	.4	.0	.8	.4	.0	.0	2.1	
	PCP	.0	.0	.0	.1	.3	.0	.4	.0	.0	.0	.8	
2<5	NO PCP	.0	.0	.0	.0	.3	.1	.0	.0	.0	.0	.4	
	TOT %	.0	.0	.0	.1	.6	.1	.4	.0	.0	.0	1.2	
	PCP	.0	.0	.0	.4	.0	1.4	.3	.0	.0	.0	2.1	
5<10	NO PCP	.0	.0	.3	3.4	3.8	.5	1.6	.4	.0	.0	10.0	
	TOT %	.0	.0	.3	3.9	3.8	1.9	1.9	.4	.0	.0	12.1	
	PCP	.0	.0	.0	.7	1.4	1.3	.4	.4	.0	.0	4.2	
10+	NO PCP	.4	.0	3.1	25.7	33.4	10.5	5.0	.8	.0	2.5	80.4	
	TOT %	.4	.0	3.1	26.5	34.8	11.8	4.3	1.3	.0	2.5	84.6	
	TOT OBS												240
	TOT PCT	.4	.0	3.4	30.8	39.6	13.8	7.4	2.1	.0	2.5	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.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	.4	.2	.0	.0	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.2	.4	.2	.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	.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	.0	.0	.2	.3	.3	.0	.2	.0		1.0	
	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	.2	.3	.3	.4	.2	.0	.0	1.4	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	4-10	.0	.0	.0	.4	.4	.1	.0	.2	.0		1.0	
	11-21	.0	.0	.0	.1	.2	.0	.2	.2	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.5	.5	.1	.2	.4	.0	.0	1.6	
	0-3	.0	.0	.0	.0	.0	.4	.2	.0	.0	.2	.8	
5<10	4-10	.0	.0	.2	1.2	1.4	.5	.4	.2	.0		3.9	
	11-21	.0	.1	.1	1.2	1.3	.7	.5	.1	.0		4.1	
	22+	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	TOT %	.0	.1	.3	2.6	2.7	1.6	1.1	.3	.0	.2	8.9	
	0-3	.2	.2	.3	.6	1.7	1.0	.7	.4	.0	3.4	8.5	
10+	4-10	.5	.4	4.7	15.0	22.1	7.2	1.9	.8	.0		52.5	
	11-21	.0	.0	.1	10.9	10.5	3.1	.8	.0	.0		25.4	
	22+	.0	.0	.0	.1	.5	.2	.0	.0	.0		.8	
	TOT %	.7	.6	5.1	26.6	34.8	11.5	3.3	1.2	.0	3.4	87.2	
	TOT OBS												493
	TOT PCT	.7	.7	5.3	30.0	38.7	13.7	5.0	2.1	.0	3.7	100.0	

PERIOD: (PRIMARY) 1906-1972
(OVER-ALL) 1899-1972

AREA 0008 WEST BORNEO
.4N 107.4E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3-99	3500 4999	5000 6-99	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	.0	5.1	12.8	2.6	7.7	.0	5.1	.0	33.3	66.7	39
06E09	.0	.0	.0	5.9	7.8	2.0	5.9	2.0	.0	.0	23.5	76.5	51
12E15	.0	.0	.0	11.6	7.0	9.3	2.3	.0	.0	.0	30.2	69.8	43
18E21	.0	.0	.0	7.9	15.8	2.6	5.3	.0	2.6	.0	34.2	65.8	38
TOT	0	0	0	13	18	7	9	1	3	0	51	120	171
PCT	.0	.0	.0	7.6	10.5	4.1	5.3	.6	1.8	.0	29.8	70.2	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	2.2	1.1	4.4	91.2	91
06E09	1.4	.0	1.4	.7	9.4	87.1	139
12E15	.0	.0	.0	1.8	10.9	86.4	110
18E21	.0	.0	1.9	2.6	9.6	85.9	156
TOT	4	0	7	8	44	433	496
PCT	.8	.0	1.4	1.6	8.9	87.3	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	5.4	29.7	64.9	37
06E09	.0	.0	6.4	19.1	74.5	47
12E15	.0	.0	12.8	20.5	66.7	39
18E21	.0	.0	14.3	22.9	62.9	35
TOT	0	0	15	36	107	158
PCT	.0	.0	9.5	22.8	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
95/99	.0	.0	.0	.0	.6	.0	.0	.0	1	.6
90/94	.0	.0	.0	.0	.6	.0	.0	.0	1	.6
85/89	.0	.0	.0	.0	3.4	4.6	3.4	.0	20	11.5
80/84	.0	.0	.0	.0	4.0	35.1	39.1	3.4	142	81.6
75/79	.0	.0	.0	.0	.0	1.1	2.9	1.1	9	5.2
70/74	.0	.0	.0	.0	.0	.0	.0	.6	1	.6
TOTAL	0	0	0	0	15	71	79	9	174	100.0
PCT	.0	.0	.0	.0	8.6	40.8	45.4	5.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.6	.0	.0	.0	.0	.0
.0	.0	.0	.6	.0	.0	.0	.0	.0	.0
.0	.0	.0	4.6	3.4	2.3	1.1	.0	.0	.0
.6	.0	2.2	24.6	35.8	11.2	3.9	.6	.0	2.9
.0	.0	.0	.6	.6	2.2	1.4	.6	.0	.0
.0	.0	.0	.0	.0	.0	.6	.0	.0	.0
.6	.0	2.2	30.3	40.2	15.7	7.0	1.1	.0	2.9

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	88	87	86	83	79	76	76	82.4	149
06E09	97	89	86	83	79	76	74	83.3	340
12E15	86	85	85	82	79	76	75	82.1	161
18E21	86	85	84	82	79	77	72	81.7	259
TOT	97	89	86	82	79	76	72	82.5	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	4.5	38.6	52.3	4.5	80	44
06E09	.0	.0	22.4	36.7	38.8	2.0	77	49
12E15	.0	.0	4.9	46.3	43.9	4.9	79	41
18E21	.0	.0	.0	41.5	48.8	9.8	81	41
TOT	0	0	15	71	80	9	79	175

JULY

PERIOD: (PRIMARY) 1906-1972
(OVER-ALL) 1855-1972

AREA 0008 WEST BORNEO
.4N 107.4E

TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	>92	TOT	# FOG	WO FOG
9/10	.0	.0	.0	.0	.0	.4	1	.0	.4
6	.0	.0	.4	.4	.9	.0	4	.0	1.7
5	.0	.0	.9	.0	.0	.0	2	.0	.9
4	.0	.0	.0	2.6	.4	.0	7	.0	3.0
3	.0	.0	.0	.8	.4	.0	3	.0	1.3
2	.0	.4	3.0	2.2	.0	.0	13	.0	5.7
1	.0	.0	6.1	1.7	.0	.0	18	.0	7.8
0	.0	.0	20.0	1.7	.0	.0	50	.0	21.7
-1	.0	1.3	13.0	1.3	.0	.0	36	.0	15.7
-2	.0	1.7	20.4	.4	.0	.0	52	.0	22.6
-3	.0	1.3	7.4	.4	.0	.0	21	.0	9.1
-4	.4	1.3	3.0	.0	.0	.0	11	.0	4.8
-5	.0	1.3	.4	.0	.0	.0	4	.0	1.7
-6	.4	1.7	.4	.0	.0	.0	6	.0	2.6
-7/-8	.0	.4	.0	.0	.0	.0	1	.0	.4
-11/-13	.4	.0	.0	.0	.0	.0	1	.0	.4
TOTAL	3		173		4			0	230
		22		27		1	230		
PCT	1.3	9.6	75.2	11.7	1.7	.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	.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	1.9	1.1	.0	.0	.0	3.0
1-2	.0	7.3	4.5	.0	.0	.0	11.8
3-4	.0	2.4	12.1	.3	.0	.0	14.8
5-6	.0	.3	1.6	1.1	.0	.0	3.0
7	.0	.0	.3	.3	.0	.0	.5
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	11.8	19.9	1.6	.0	.0	33.3

PERIOD: (OVER-ALL) 1963-1972 JULY AREA 0008 WEST BORNEO

TABLE 18 (CONT) .4N 107.4E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	1.1	.0	.0	.0	5.6	.0	1.1	.0	.0	.0	.0	1.1
1-2	.0	7.3	4.9	.0	.0	.0	13.2	.0	4.8	.5	.0	.0	.0	5.4
3-4	.0	5.1	9.1	.8	.0	.0	15.1	.0	1.1	2.4	.0	.0	.0	3.5
5-6	.0	3.0	2.7	.0	.0	.0	5.6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.8	.8	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	2.7	.0	.0	.0	2.7	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	19.9	22.3	1.6	.0	.0	43.8	.0	7.0	3.2	.0	.0	.0	10.2

	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	1.1	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	
1-2	1.1	1.1	.8	.0	.0	.0	3.0	.0	1.1	.0	.0	.0	.0	1.1	
3-4	.0	.0	1.1	.0	.0	.0	1.1	1.1	.0	.0	.0	.0	.0	1.1	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.2	1.1	1.9	.0	.0	.0	5.1	1.1	1.1	.0	.0	.0	.0	2.2	94.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.5	7.5	2.2	.0	.0	.0	16.1	
1-2	1.1	21.5	11.8	.0	.0	.0	34.4	
3-4	1.1	8.6	24.7	1.1	.0	.0	35.5	
5-6	.0	3.2	4.3	1.1	.0	.0	8.6	
7	.0	.0	1.1	1.1	.0	.0	2.2	
8-9	.0	.0	3.2	.0	.0	.0	3.2	
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	
								93
TOT PCT	8.6	40.9	47.3	3.2	.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	6.5	23.9	23.9	10.1	2.9	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	96	3
6-7	.0	2.2	5.8	2.2	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	4
8-9	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	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	8.0	5.1	3.6	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	2
TOTAL	20	43	49	17	5	3	1	0	0	0	0	0	0	0	0	0	0	0	0	138	3
PCT	14.5	31.2	35.5	12.3	3.6	2.2	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1900-1972
(OVER-ALL) 1855-1972

AREA 0008 WEST BORNEO
.6N 107.6E

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	26.7	.0	.0	.0	.0	.0	.0	26.7	20.0	.0	.0	.0	.0	.0	.0	53.3
NE	25.0	.0	.0	.0	.0	.0	.0	25.0	.0	25.0	.0	.0	.0	.0	.0	50.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	1.2	.3	.3	.0	.0	.0	.0	1.8	.6	2.4	.0	.0	1.2	.0	.0	94.1
S	1.2	1.8	.9	.0	.0	.0	.0	3.9	2.7	2.4	.0	.0	.9	.0	.0	90.0
SW	6.4	3.2	.0	.0	.0	.0	.0	9.6	.6	2.6	.0	.0	.6	.0	.0	86.5
W	32.3	.0	.0	.0	.0	.0	.0	32.3	.0	.0	.0	.0	.0	.0	.0	67.7
NW	44.4	.0	.0	.0	.0	.0	.0	44.4	11.1	.0	.0	.0	.0	.0	.0	44.4
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	.0	.0	.0	.0	.0	.0	75.0
TOT PCT	4.3	1.7	.4	.0	.0	.0	.0	6.4	1.7	2.6	.0	.0	.9	.0	.0	88.4
TOT OBS:	233															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	3.3	3.3	1.7	.0	.0	.0	.0	6.3	5.0	3.3	.0	.0	.0	.0	.0	83.3
06609	5.0	.0	.0	.0	.0	.0	.0	5.0	.0	.0	.0	.0	1.7	.0	.0	93.3
12615	1.6	.0	.0	.0	.0	.0	.0	1.6	.0	3.2	.0	.0	1.6	.0	.0	93.5
18621	6.8	3.4	.0	.0	.0	.0	.0	10.2	1.7	3.4	.0	.0	1.7	.0	.0	83.1
TOT PCT	4.1	1.7	.4	.0	.0	.0	.0	6.2	1.7	2.5	.0	.0	1.2	.0	.0	88.4
TOT OBS:	241															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	.0	.0	.0	.0		.9	4.6	1.6	6.3	.6	.0	.6	.0	.6	1.1
NE	.4	.5	.0	.0	.0	.0		.9	4.3	.7	.0	1.8	.0	1.3	.0	.6	.0
E	.5	3.3	.9	.0	.0	.0		4.2	7.7	2.8	8.3	4.3	4.4	4.7	.0	5.0	3.8
SE	2.3	19.4	12.1	.0	.0	.0		33.8	9.7	38.8	41.7	39.9	33.8	27.4	53.3	28.3	29.1
S	2.4	27.7	10.8	.5	.0	.0		41.4	9.1	36.0	25.0	40.7	44.1	47.3	30.0	41.0	43.0
SW	.9	9.2	2.1	.4	.0	.0		12.5	8.5	12.4	12.5	8.0	14.2	16.6	10.0	16.9	10.2
W	.3	1.2	.3	.1	.0	.0		1.9	8.8	2.4	4.2	1.8	.5	1.8	.0	1.7	3.0
NW	.3	.7	.1	.0	.0	.0		1.1	5.9	1.2	.0	.2	1.0	.3	6.7	2.4	1.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.4							3.4	.0	4.1	.0	3.1	2.0	.0	.0	3.6	8.3
TOT OBS	106	615	252	9	0	0	982		8.7	145	12	254	102	155	15	166	133
TOT PCT	10.8	62.6	25.7	.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	.7	.2	.0	.0	.0		.9	4.6	2.1	.6	.6	.8
NE	.7	.2	.0	.0	.0		.9	4.3	.6	1.3	1.2	.3
E	1.3	2.9	.0	.0	.0		4.2	7.7	3.2	4.4	4.3	4.4
SE	7.8	23.0	3.0	.0	.0		33.8	9.7	39.0	37.7	29.7	28.7
S	11.3	27.9	2.1	.1	.0		41.4	9.1	35.2	41.7	45.7	41.9
SW	4.6	7.2	.7	.0	.0		12.5	8.5	12.4	9.8	10.0	13.9
W	.9	.8	.1	.1	.0		1.9	8.0	2.5	1.4	1.6	2.3
NW	.7	.4	.0	.0	.0		1.1	5.9	1.1	.4	.9	2.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.4						3.4	.0	3.8	2.8	.0	5.7
TOT OBS	308	614	58	2	0	982		8.7	157	356	170	299
TOT PCT	31.4	62.5	5.9	.2	.0		100.0		100.0	100.0	100.0	100.0

AUGUST

PERIOD: (PRIMARY) 1908-1972
(OVER-ALL) 1855-1972

AREA 0008 WEST BORNEO
.4N 107.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.8	10.8	57.3	26.8	1.3	.0	.0	8.7	100.0	157
06&09	2.8	5.3	56.5	33.7	1.7	.0	.0	9.8	100.0	356
12&15	.0	8.2	68.2	23.5	.0	.0	.0	8.5	100.0	170
18&21	5.7	7.7	69.6	16.7	.3	.0	.0	7.7	100.0	299
TOT	93	73	615	256	9	0	0	8.7		982
PCT	3.4	7.4	62.6	25.7	.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	.0	.0	1.3	.0		6.0
NE	.0	.7	.7	.7		6.0
E	.5	.0	.7	.5		4.4
SE	6.5	7.3	13.4	6.6		5.0
S	5.5	8.4	20.2	5.6		5.2
SW	.2	4.1	6.3	5.8		6.2
W	.0	.0	1.2	1.3		7.5
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	.0	1.3	.0	1.3		6.0
TOT OBS	19	33	66	33	151	5.4
TOT PCT	12.6	21.9	43.7	21.9	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	150 294	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	1.3	
NE	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	1.3	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	
SE	.0	.0	.3	1.0	4.3	1.2	.0	.0	.0	.2	26.8	
S	.0	.0	.8	3.3	4.3	.8	.7	.0	.0	.5	29.3	
SW	.0	.0	.2	1.0	4.6	.0	.0	1.3	.0	.0	9.3	
W	.0	.0	.0	.0	.0	.0	.0	.7	.0	.7	1.2	
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	.7	.0	.0	.7	.0	.0	1.3	
TOT OBS	0	0	2	8	22	3	1	4	0	2	109	151
TOT PCT	.0	.0	1.3	5.3	14.6	2.0		2.6	.0	1.3	72.2	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 >500YD	• OR >0
• OR >6500	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
• OR >5000	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
• OR >3500	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
• OR >2000	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
• OR >1000	18.6	20.5	20.5	20.5	20.5	20.5	20.5	20.5
• OR >600	21.8	25.6	25.6	25.6	25.6	25.6	25.6	25.6
• OR >300	23.1	26.9	26.9	26.9	26.9	26.9	26.9	26.9
• OR >150	23.1	26.9	26.9	26.9	26.9	26.9	26.9	26.9
• OR > 0	23.1	26.9	26.9	26.9	26.9	26.9	26.9	26.9
TOTAL	38	42	42	42	42	42	42	42

TOTAL NUMBER OF OBS: 156 PCT FREQ NH <5/8: 73.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
4.1	11.7	27.2	21.1	13.5	7.0	5.3	4.1	11.1	.0	171

AUGUST

PERIOD: (PRIMARY) 1908-1972
(OVER-ALL) 1855-1972

AREA 0008 WEST BORNEO
.4N 107.4E

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	.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	.4	.0	.0	.0	.0	.0	.0	.4	.0	.0	.9	
	NO PCP	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.9	
	TOT %	.4	.0	.0	.9	.0	.0	.0	.4	.0	.0	1.7	
2<5	PCP	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	
	NO PCP	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.9	
5<10	PCP	.0	.4	.0	.0	.4	.0	.4	.0	.0	.4	1.7	
	NO PCP	.0	.0	.4	3.6	4.6	1.0	.2	.0	.0	.0	9.9	
	TOT %	.0	.4	.4	3.6	5.0	1.0	.6	.0	.0	.4	11.6	
10+	PCP	.0	.0	.0	.2	1.0	1.4	.6	.0	.0	.0	3.4	
	NO PCP	1.2	1.3	1.7	30.7	29.5	14.2	2.0	.5	.0	1.3	82.4	
	TOT %	1.2	1.3	1.7	30.9	30.5	15.4	2.7	.5	.0	1.3	85.8	
	TOT OBS												233
	TOT PCT	1.6	1.7	2.1	35.3	35.5	16.7	3.3	1.0	.0	1.7	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.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	.2	.0	.0	.0	.2	.0		.6	
	11-21	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.0	.0	.4	.0	.0	.0	.2	.0	.0	.7	
2<5	0-3	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	4-10	.0	.0	.0	.7	.2	.2	.0	.0	.0		1.1	
	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	.7	.6	.2	.0	.0	.0	.0	1.5	
5<10	0-3	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	.4	
	4-10	.0	.2	.6	1.6	1.8	1.2	.4	.0	.0		5.7	
	11-21	.0	.0	.0	1.0	1.4	.0	.2	.0	.0		2.6	
	22+	.0	.0	.0	.0	.2	.0	.0	.0	.0		.2	
	TOT %	.0	.2	.6	2.8	3.4	1.2	.6	.0	.0	.2	8.9	
10+	0-3	.5	.3	.3	2.3	2.2	.9	.6	.6	.0	3.1	10.7	
	4-10	.6	.4	3.4	20.5	23.0	9.3	.8	.6	.0		58.6	
	11-21	.0	.0	.1	9.1	8.1	1.6	.3	.0	.0		19.2	
	22+	.0	.0	.0	.0	.3	.1	.0	.0	.0		.4	
	TOT %	1.1	.6	3.8	32.0	33.5	11.9	1.6	1.2	.0	3.1	88.9	
	TOT OBS												941
	TOT PCT	1.2	.8	4.4	35.9	37.5	13.2	2.2	1.4	.0	3.3	100.0	

AUGUST

PERIOD: (PRIMARY) 1908-1972
(OVER-ALL) 1855-1972

AREA 0008 WEST BORNEO
.4N 107.4E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	11.1	11.1	2.2	.0	4.4	.0	.0	28.9	71.1	45
06&09	.0	.0	.0	2.3	9.1	4.5	2.3	.0	.0	.0	18.2	81.8	44
12&15	.0	.0	5.1	.0	15.4	.0	.0	2.6	.0	.0	23.1	76.9	39
18&21	.0	.0	.0	5.3	18.4	.0	.0	2.6	.0	5.3	31.6	68.4	38
TOT	0	0	2	8	22	3	1	4	0	2	42	124	166
PCT	.0	.0	1.2	4.8	13.3	1.8	.6	2.4	.0	1.2	25.3	74.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	1.0	.0	5.8	93.3	104
06&09	.0	.0	.7	1.5	9.6	85.2	136
12&15	.0	.0	1.7	2.6	8.7	87.0	115
18&21	.0	.0	.0	1.5	10.3	88.1	194
TOT	0	0	4	8	49	488	549
PCT	.0	.0	.7	1.5	8.9	88.9	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	11.9	19.0	69.0	42
06&09	.0	.0	2.3	16.3	81.4	43
12&15	.0	5.6	5.6	19.4	75.0	36
18&21	.0	.0	5.7	28.6	65.7	35
TOT	0	2	10	32	114	156
PCT	.0	1.3	6.4	20.5	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
90/94	.0	.0	.0	.0	.6	.6	.0	.0	2	1.2
85/89	.0	.0	.0	.0	.6	3.1	.6	.0	7	4.3
80/84	.0	.0	.0	.0	1.2	30.1	41.1	11.0	136	83.4
75/79	.0	.0	.0	.0	.0	.0	6.1	4.9	18	11.0
TOTAL	0	0	0	0	4	55	78	26	163	100.0
PCT	.0	.0	.0	.0	2.5	33.7	47.9	16.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.6	.6	.0	.0	.0	.0	.0
	.0	.0	.0	1.5	2.5	.3	.0	.0	.0	.0
	1.7	1.2	1.5	27.3	32.7	16.0	1.7	.2	.0	1.2
	.0	.6	.0	3.4	2.1	3.1	1.2	.0	.0	.6
	1.7	1.8	1.5	32.8	37.9	19.3	2.9	.2	.0	1.8

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	76	75	81.7	154
06&09	92	90	88	83	78	75	74	83.1	232
12&15	87	86	84	82	79	77	76	81.9	167
18&21	85	84	83	82	79	76	76	81.4	300
TOT	92	88	86	82	79	76	74	82.1	973

TABLE 16

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	2.4	31.7	48.8	17.1	83	41
06&09	.0	.0	7.0	41.9	37.2	14.0	80	43
12&15	.0	.0	.0	35.6	53.3	11.1	82	45
18&21	.0	.0	.0	24.4	51.2	24.4	84	41
TOT	0	0	4	57	81	28	82	170

AUGUST

PERIOD: (PRIMARY) 1908-1972
(OVER-ALL) 1855-1972

AREA 0008 WEST BORNEO
.4N 107.4E

TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
9/10	.0	.0	.5	.0	.0	1	.0	.5
7/8	.0	.0	.0	.0	.5	1	.0	.5
6	.0	.0	.0	.0	.5	1	.0	.5
5	.0	.5	.0	.0	.0	1	.0	.5
4	.0	.0	.5	.9	.5	4	.0	1.8
3	.0	.0	.5	.5	.0	2	.0	.9
2	.0	.0	4.6	1.4	.0	13	.0	6.0
1	.0	.0	6.0	1.4	.0	16	.0	7.4
0	.0	.5	21.7	.9	.0	49	.0	23.0
-1	.0	.5	16.1	.5	.0	37	.0	17.1
-2	.5	3.2	14.3	.0	.0	39	.0	18.0
-3	.0	.5	6.0	.0	.0	14	.0	6.5
-4	.0	4.6	5.1	.0	.0	21	.0	9.7
-5	1.4	1.8	.5	.0	.0	8	.0	3.7
-6	.0	.5	.0	.0	.0	1	.0	.5
-7/-8	.9	2.3	.5	.0	.0	8	.0	3.7
TOTAL	6	31	165	12	3	217	0	217
PCT	2.8	14.3	76.0	5.5	1.4	100.0		100.0

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

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

N

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

E

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

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	3.8	.0	.0	.0	.0	.0	3.8
1-2	.0	14.6	5.1	.0	.0	.0	19.6
3-4	.0	5.4	7.0	.0	.0	.0	12.3
5-6	.0	.0	2.5	.0	.0	.0	2.5
7	.0	.0	1.3	.0	.0	.0	1.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.8	19.9	15.8	.0	.0	.0	39.6

PERIOD: (OVER-ALL) 1963-1972

AUGUST

TABLE 18 (CONT)

AREA 0008 WEST BORNEO
.4N 107.4E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	1.3	.0	.0	.0	.0	2.5	.0	1.3	.0	.0	.0	.0	1.3
1-2	.0	11.7	11.1	.0	.0	.0	22.8	.0	6.6	.3	.0	.0	.0	7.0
3-4	.0	5.7	4.4	1.3	.0	.0	11.4	.0	2.8	.3	.0	.0	.0	3.2
5-6	.0	2.5	1.3	.0	.0	.0	3.8	.0	.0	1.3	.0	.0	.0	1.3
7	.0	.0	1.3	.0	.0	.0	1.3	.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	1.3	21.2	18.0	1.3	.0	.0	41.8	.0	10.8	1.9	.0	.0	.0	12.7

	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	.0	.0	.0	.0	.0	.0	
1-2	2.5	.0	.0	.0	.0	.0	2.5	.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	2.5	.0	.0	.0	.0	.0	2.5	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.3	2.5	.0	.0	.0	.0	8.8	
1-2	2.5	33.8	16.3	.0	.0	.0	52.5	
3-4	.0	15.0	12.5	1.3	.0	.0	28.8	
5-6	.0	2.5	5.0	.0	.0	.0	7.5	
7	.0	.0	2.5	.0	.0	.0	2.5	
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	8.8	53.8	36.3	1.3	.0	.0	100.0	80

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.2	25.2	28.9	8.1	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	93	3
6-7	.0	1.5	5.2	3.7	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	4
8-9	.0	.0	.7	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	5
10-11	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	2
12-13	.0	.0	.7	1.5	.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	6.7	3.7	.7	.7	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	2
TOTAL	16	42	49	22	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	135	3
PCT	11.9	31.1	36.3	16.3	.7	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1968-1971
(OVER-ALL) 1856-197

AREA 0008 WEST BORNEO
.4N 107.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLVG	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	66.7	.0	.0	.0		.0	33.3
E	8.0	.0	.0	.0	.0	.0	.0	8.0	.0	.0	.0	.0	.0		.0	92.0
SE	4.3	.0	.0	.0	.0	.0	.0	4.3	.0	3.0	1.7	.0	3.2		.0	85.3
S	.0	.0	1.3	.0	.0	.0	.0	1.3	2.6	3.8	.0	.0	2.6		.0	89.8
SW	4.9	.0	.0	.0	.0	.0	.0	4.9	4.9	7.4	.0	.0	4.9		.0	77.9
W	10.4	.0	4.5	.0	.0	.0	.0	20.9	.0	.0	6.0	.0	.0		.0	73.1
NW	25.0	.0	25.0	.0	.0	.0	.0	50.0	.0	.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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	4.1	.0	.9	.0	.0	.0	.0	5.0	1.8	4.1	.9	.0	3.2		.0	85.1
TOT OBS:	222															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	1.7	.0	.0	.0	.0	.0	.0	1.7	3.4	1.7	.0	.0	3.4		.0	89.8
06609	7.1	.0	.0	.0	.0	.0	.0	7.1	1.8	.0	1.8	.0	1.8		.0	87.5
12615	5.9	.0	2.0	.0	.0	.0	.0	7.8	2.0	2.0	.0	.0	5.9		.0	82.4
18621	3.2	.0	1.6	.0	.0	.0	.0	4.8	.0	12.7	1.6	.0	1.6		.0	81.0
TOT PCT	4.4	.0	.9	.0	.0	.0	.0	5.2	1.7	4.4	.9	.0	3.1		.0	85.2
TOT OBS:	229															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	.8	.1	.0	.0	.0		1.4	4.4	1.9	.0	.8	2.1	.4	.0	2.2	2.0
NE	1.0	1.1	.1	.0	.0	.0		2.2	4.3	2.6	.0	1.4	1.8	3.3	.0	1.9	3.3
E	1.2	4.2	.5	.0	.0	.0		5.9	6.4	6.3	10.0	7.7	5.4	3.7	.0	5.0	6.5
SE	2.1	18.4	5.8	.1	.0	.0		26.4	8.3	35.1	43.3	33.9	23.4	19.4	25.0	17.7	23.5
S	3.3	25.6	4.6	.0	.0	.0		33.6	7.8	30.4	25.0	38.3	35.5	38.0	54.2	36.6	32.2
SW	2.3	11.2	2.3	.2	.0	.0		16.0	7.4	17.2	15.0	12.0	17.5	19.1	16.7	18.6	14.2
W	1.8	2.5	1.0	.2	.0	.0		5.5	7.8	2.9	.0	4.6	6.8	9.8	4.2	6.1	3.6
NW	.3	1.2	.2	*	.0	.0		1.7	6.4	.3	.0	.6	3.9	1.0	.0	2.0	3.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.2							5.2	.0	3.2	6.7	.8	3.6	5.3	.0	10.0	11.1
TOT OBS	187	685	176	6	0	0	1054		7.3	154	15	251	140	169	12	160	153
TOT PCT	17.7	65.0	16.7	.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	1.4	.1	.0	.0	.0		1.4	4.4	1.8	1.3	.4	2.1
NE	2.0	.2	.0	.0	.0		2.2	4.3	2.4	1.5	3.0	2.6
E	3.6	2.2	.1	.0	.0		5.9	6.4	6.7	6.8	3.5	5.8
SE	10.3	14.8	1.3	.0	.0		26.4	8.3	35.8	30.1	19.8	20.5
S	14.8	20.0	.8	.0	.0		35.6	7.8	29.9	37.3	39.1	34.4
SW	7.9	7.6	.6	.0	.0		16.0	7.4	17.0	13.9	18.9	16.5
W	3.8	2.2	.4	.1	.0		5.5	7.8	2.7	5.4	9.6	4.9
NW	1.3	.4	*	.0	.0		1.7	6.4	.3	1.8	1.0	2.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.2						5.2	.0	5.6	1.8	5.0	10.5
TOT OBS	518	501	34	1	0	1054		7.3	169	391	181	313
TOT PCT	49.1	47.5	3.2	.1	.0		100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1906-1971
(OVER-ALL) 1856-1971

AREA 0008 WEST BORNEO
.4N 107.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
	WIND SPEED (KNOTS)									
00&03	3.6	12.4	64.5	18.9	.6	.0	.0	7.7	100.0	169
06&09	1.8	13.3	63.4	20.5	1.0	.0	.0	7.9	100.0	391
12&15	5.0	14.4	66.3	13.8	.6	.0	.0	6.9	100.0	181
18&21	10.5	10.5	66.5	12.5	.0	.0	.0	6.4	100.0	313
TOT	55	132	685	176	6	0	0	7.3		1054
PCT	5.2	12.5	65.0	16.7	.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	.6	.8	.0	.8		4.5
NE	.2	.0	1.1	.0		6.1
E	.0	2.2	2.9	2.2		6.1
SE	1.9	4.2	10.1	6.9		5.7
S	3.6	6.1	10.5	12.8		5.7
SW	1.3	3.4	6.7	8.2		6.0
W	1.7	1.7	5.7	2.1		5.3
NW	.0	.0	.0	.4		8.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.8	.0	.8		5.5
TOT OBS	11	23	44	41	119	5.7
TOT PCT	9.2	19.3	37.0	34.5	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	
NE	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	1.1	
E	.0	.0	.0	.6	1.3	.0	.0	.0	.0	1.7	4.0	
SE	.0	.0	.0	1.9	1.5	.8	.8	2.5	.0	.0	15.5	
S	.0	.0	1.7	3.2	2.3	.8	.8	.0	.0	.0	24.2	
SW	.0	.0	.0	.8	2.5	1.7	.0	.0	.0	.0	14.5	
W	.8	.0	.8	.6	.8	.0	.0	.0	.0	.0	8.0	
NW	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	
TOT OBS	1	0	3	9	10	4	2	3	0	3	84	119
TOT PCT	.8	.0	2.5	7.6	8.4	3.4	1.7	2.5	.0	2.5	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 >500YD	• OR >0
• OR >6500	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
• OR >5000	4.1	4.9	4.9	4.9	4.9	4.9	4.9	4.9
• OR >3500	5.7	6.5	6.5	6.5	6.5	6.5	6.5	6.5
• OR >2000	8.9	9.8	9.8	9.8	9.8	9.8	9.8	9.8
• OR >1000	17.1	18.7	18.7	18.7	18.7	18.7	18.7	18.7
• OR >600	22.0	24.4	25.2	26.0	26.0	26.0	26.0	26.0
• OR >300	23.6	26.0	26.8	28.5	28.5	28.5	28.5	28.5
• OR >150	23.6	26.0	26.8	28.5	28.5	28.5	28.5	28.5
• OR > 0	23.6	26.0	26.8	28.5	28.5	28.5	29.3	29.3
TOTAL	29	32	33	35	35	35	36	36

TOTAL NUMBER OF OBS: 123 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
6.4	10.3	21.8	17.3	10.9	3.8	8.3	6.4	14.7	.0	156

SEPTEMBER

PERIOD: (PRIMARY) 1908-1971
(OVER-ALL) 1856-1971

AREA 0008 WEST BORNEO
.4N 107.4E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.5	.5	.0	.0	.0	.0	.0	.9	
	TOT %	.0	.0	.0	.5	.5	.0	.0	.0	.0	.0	.9	
1<2	PCP	.0	.0	.0	.0	.5	.0	.3	.1	.0	.0	.9	
	NO PCP	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.9	
	TOT %	.0	.0	.0	.9	.5	.0	.3	.1	.0	.0	1.8	
2<5	PCP	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.5	
	NO PCP	.0	.0	.0	.1	1.2	.0	.5	.0	.0	.0	1.8	
	TOT %	.0	.0	.0	.1	1.2	.0	.5	.0	.0	.0	2.3	
5<10	PCP	.0	.0	.7	.2	.0	.0	.0	.0	.0	.0	.9	
	NO PCP	.7	.5	.5	3.0	6.9	3.8	1.1	.2	.0	.0	16.7	
	TOT %	.7	.5	1.1	3.3	6.9	3.8	1.1	.2	.0	.0	17.6	
10+	PCP	.0	.0	.0	.9	.0	.5	.8	.1	.0	.0	2.3	
	NO PCP	.8	.2	7.3	20.4	26.2	13.4	4.4	.0	.0	1.8	74.8	
	TOT %	.8	.2	7.3	21.3	26.2	14.1	5.2	.1	.0	1.8	77.0	
	TOT OBS												222
	TOT PCT	1.5	.7	8.4	26.0	35.2	18.4	7.5	.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	.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	
1/2<1	0-3	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	4-10	.0	.0	.0	.0	.1	.1	.0	.0	.0		.2	
	11-21	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.2	.3	.1	.0	.0	.0	.0	.5	
1<2	0-3	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	.3	
	4-10	.0	.0	.0	.3	.4	.0	.0	.0	.0		.7	
	11-21	.0	.0	.0	.2	.0	.0	.1	*	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.5	.4	.2	.1	*	.0	.2	1.4	
2<5	0-3	.0	.0	.0	.0	.2	.2	.0	.0	.0	.2	.5	
	4-10	.0	.0	.1	.3	.7	.6	.3	.0	.0		1.9	
	11-21	.0	.0	.1	.1	.1	.0	.2	.0	.0		.5	
	22+	.0	.0	.0	.0	.0	.2	.0	.0	.0		.2	
	TOT %	.0	.0	.2	.4	1.0	.9	.4	.0	.0	.2	3.1	
5<10	0-3	.0	.0	.3	.1	.2	.2	.0	.0	.0	.5	1.4	
	4-10	.3	.2	.4	1.2	2.8	2.0	.7	.5	.0		8.0	
	11-21	.2	.0	.0	.8	1.1	.3	.1	.0	.0		2.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.4	.2	.8	2.1	4.1	2.6	.8	.5	.0	.5	11.9	
10+	0-3	.6	1.1	.9	1.8	2.3	1.6	1.9	.1	.0	5.6	15.8	
	4-10	.5	.5	4.4	18.0	20.4	7.8	1.5	1.1	.0		54.3	
	11-21	.0	.0	.2	4.4	5.2	1.8	.8	.0	.0		12.4	
	22+	.0	.0	.0	.2	.0	.2	.0	.0	.0		.3	
	TOT %	1.1	1.6	5.5	24.4	28.0	11.4	4.2	1.2	.0	5.6	83.0	
	TOT OBS												987
	TOT PCT	1.5	1.8	6.4	27.5	33.7	15.1	5.7	1.8	.0	6.5	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1908-1971
(OVER-ALL) 1896-1971

AREA 0008 WEST BOANEO
.4N 107.4E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	.0	4.9	12.2	2.4	2.4	2.4	.0	2.4	26.8	73.2	41
06E09	2.9	.0	.0	5.9	5.9	2.9	2.9	.0	.0	.0	20.6	79.4	34
12E15	.0	.0	9.4	6.3	6.3	3.1	.0	3.1	.0	.0	28.1	71.9	32
18E21	.0	.0	.0	9.1	6.1	3.0	.0	3.0	.0	6.1	27.3	72.7	33
TOT	1	0	3	9	11	4	2	3	0	3	36	104	140
PCT	.7	.0	2.1	6.4	7.9	2.9	1.4	2.1	.0	2.1	25.7	74.3	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	.9	1.8	16.1	81.3	112
06E09	.5	1.1	.0	3.7	8.5	86.2	188
12E15	.0	1.0	2.9	2.9	15.2	78.1	105
18E21	.0	.0	2.1	3.2	11.1	83.4	189
TOT	1	3	8	18	71	493	594
PCT	.2	.5	1.3	3.0	12.0	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 <500YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	.0	5.4	24.3	70.3	37
06E09	3.3	3.3	13.3	13.3	73.3	30
12E15	.0	10.7	17.9	14.3	67.9	28
18E21	.0	.0	14.3	21.4	64.3	28
TOT	1	4	15	23	85	123
PCT	.8	3.3	12.2	18.7	69.1	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	2.0	4.2	1.4	.0	19	12.4
80/84	.0	.0	.0	.0	2.0	27.5	42.5	9.1	124	81.0
75/79	.0	.0	.0	.0	.0	.0	3.3	2.6	9	5.9
TOTAL	0	0	0	0	7	58	72	16	153	100.0
PCT	.0	.0	.0	.0	4.6	38.0	47.1	10.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.2	.5	.0	.0	.0	.0	.0
	.0	.0	.5	4.2	5.2	1.8	.7	.0	.0	.0
	1.8	1.0	8.5	21.7	24.5	14.5	6.9	.2	.0	2.0
	.0	.0	.0	.7	1.6	2.9	.5	.2	.0	.0
	1.8	1.0	9.0	26.8	31.9	19.3	8.0	.3	.0	2.0

TABLE 15

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

HOUR (GMT)	MAX	99+	95+	90%	5+	1%	MIN	MEAN	TOTAL OBS
00E03	90	88	85	82	78	76	76	81.9	164
06E09	93	90	88	83	79	75	74	83.1	381
12E15	85	84	84	82	79	78	77	82.0	179
18E21	86	84	83	82	79	76	74	81.6	313
TOT	93	89	86	82	79	76	74	82.3	1037

TABLE 16

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	38.1	47.6	11.9	81	42
06E09	.0	.0	13.2	34.2	39.5	13.2	79	38
12E15	.0	.0	2.9	31.4	57.1	8.6	82	35
18E21	.0	.0	.0	38.4	52.3	11.4	82	44
TOT	0	0	7	56	78	18	81	159

SEPTEMBER

PERIOD: (PRIMARY) 1958-1971
(OVER-ALL) 1858-1971

AREA 0008 WEST BORNEO
.4N 107.4E

TABLE 17

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

AIR-SEA TMP DIF	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.5	1	.0	.5
7/8	.0	1.0	.0	.0	2	.0	1.0
5	.0	.5	1.0	.5	4	.0	2.0
4	.0	.0	.5	.0	1	.0	.5
3	.0	.0	.5	.0	1	.0	.5
2	.5	5.5	2.5	.0	17	.0	8.5
1	.0	7.0	3.0	.0	20	.5	9.5
0	.5	23.9	1.0	.0	51	.0	25.4
-1	.5	16.9	1.5	.0	38	.0	18.9
-2	1.5	15.4	.0	.0	34	.0	16.9
-3	2.0	3.0	1.0	.0	12	.0	6.0
-4	2.5	3.0	.0	.0	11	.0	5.5
-5	2.0	.5	.0	.0	5	.0	2.5
-6	1.0	.0	.0	.0	2	.0	1.0
-7/-10	1.0	.0	.0	.0	2	.0	1.0
TOTAL	23	154	22	2	201	1	200
PCT	11.4	76.6	10.9	1.0	100.0	.5	99.5

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.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	1.5	.0	.0	.0	.0	1.5
1-2	2.0	3.4	.0	.0	.0	.0	5.4
3-4	.0	5.4	.0	.0	.0	.0	5.4
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	2.0	10.3	.0	.0	.0	.0	12.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	4.4	.0	.0	.0	.0	4.4
1-2	.0	12.7	.0	.0	.0	.0	12.7
3-4	.0	7.4	4.9	2.0	.0	.0	14.2
5-6	.0	2.0	.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	26.5	5.4	2.0	.0	.0	33.8

PERIOD: (OVER-ALL) 1963-1971

SEPTEMBER

TABLE 18 (CONT)

AREA 0008 WEST BORNEO
.4N 107.4E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	7.4	.0	.0	.0	.0	7.4	2.5	7.8	.0	.0	.0	.0	9.8
3-4	.0	9.8	6.4	.0	.0	.0	16.2	.0	8.8	2.5	2.0	.0	.0	13.2
5-6	.0	2.0	1.5	.0	.0	.0	3.4	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	19.1	7.8	.0	.0	.0	27.0	2.0	16.7	2.5	2.0	.0	.0	23.0

	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	1.5	.0	.0	.0	1.5	.0	.0	.5	.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	.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	.5	.0	.0	.0	.5	98.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.9	5.8	.0	.0	.0	.0	7.7	
1-2	3.8	32.7	.0	.0	.0	.0	36.5	
3-4	.0	30.8	15.4	3.8	.0	.0	50.0	
5-6	.0	3.8	1.9	.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	5.8	73.1	17.3	3.8	.0	.0	100.0	52

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	7.6	24.8	31.4	7.6	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	76	3
6-7	.0	.0	7.6	5.7	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	4
8-9	.0	1.0	1.9	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	3
10-11	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	2
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	4.8	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	1
TOTAL	13	32	43	15	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105	3
PCT	12.4	30.5	41.0	14.3	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1908-1971
(OVER-ALL) 1855-1971

AREA 0008 WEST BORNEO
.5N 107.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	9.5	.0	.0	.0	.0	9.5	.0	.0	.0	.0	.0	.0	90.5
NE	6.3	6.3	6.3	.0	.0	.0	.0	19.0	.0	.0	.0	.0	.0	.0	81.0
E	8.0	.0	4.0	.0	.0	.0	.0	12.0	.0	4.0	4.0	.0	.0	.0	80.0
SE	2.7	.0	2.7	.0	.0	.0	.0	5.4	5.4	.0	.0	.0	.0	.0	89.2
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.5	.0	.0	.0	.0	94.5
SW	7.0	3.2	.0	.0	.0	.0	.0	10.2	2.7	2.1	.0	.0	.0	.0	85.0
W	17.8	4.4	3.0	.0	.0	.0	.0	25.2	7.4	.0	.0	.0	.0	.0	67.4
NW	6.8	.0	.0	.0	.0	.0	.0	6.8	2.3	.0	.0	.0	.0	.0	90.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.5	.0	.0	.0	.0	.0	.0	4.5	.0	4.5	.0	.0	9.1	.0	81.8
TOT PCT	6.3	1.7	2.1	.0	.0	.0	.0	10.1	2.5	2.1	.4	.0	.8	.0	84.0
TOT OBS:	238														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	8.8	.0	3.5	.0	.0	.0	.0	12.3	5.3	.0	.0	.0	.0	.0	82.5
06609	3.8	5.1	.0	.0	.0	.0	.0	8.9	.0	1.3	1.3	.0	.0	.0	88.6
12615	9.4	.0	3.8	.0	.0	.0	.0	13.2	.0	6.8	.0	.0	1.9	.0	81.1
18621	8.5	.0	1.7	.0	.0	.0	.0	10.2	5.1	3.4	.0	.0	1.7	.0	79.7
TOT PCT	7.3	1.6	2.0	.0	.0	.0	.0	10.9	2.4	2.0	.4	.0	.8	.0	83.5
TOT OBS:	248														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	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	2.7	.2	.1	.0	.0		4.1	6.0	2.8	6.3	4.6	5.7	6.5	.0	3.3	1.8
NE	1.1	3.2	.3	.0	.0	.0		4.7	6.0	5.6	6.3	4.1	4.9	4.7	9.1	5.8	2.6
E	1.9	4.2	1.2	.0	.0	.0		7.3	6.5	9.1	18.8	9.3	4.1	4.0	9.1	6.8	7.7
SE	1.7	10.2	1.5	.0	.0	.0		13.3	6.9	17.1	15.6	18.5	9.8	10.4	13.6	9.0	10.9
S	4.1	13.4	1.7	.1	.0	.0		19.3	6.4	20.5	31.3	20.1	16.7	19.6	13.6	16.7	20.1
SW	3.2	13.4	2.4	.3	.0	.0		19.3	7.3	18.7	15.6	17.7	14.8	23.7	18.2	21.2	20.1
W	2.5	7.2	1.7	.4	.1	.0		11.9	7.6	12.0	.0	9.9	17.3	12.2	9.1	13.0	10.6
NW	1.9	4.0	1.1	.1	.0	.0		7.1	6.5	6.2	6.3	5.2	10.6	6.8	9.1	7.5	8.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	13.0							13.0	.0	8.0	.0	10.6	16.3	12.0	18.2	16.7	18.2
TOT OBS	303	581	100	8	1	0	993		5.9	162	16	236	123	158	11	150	137
TOT PCT	30.5	58.5	10.1	.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	2.8	1.3	.1	.0	.0		4.1	6.0	3.1	4.9	6.1	2.6
NE	3.2	1.3	.2	.0	.0		4.7	6.0	5.6	4.4	5.0	4.3
E	4.3	2.9	.2	.0	.0		7.3	6.5	10.0	7.5	4.3	7.2
SE	7.2	6.0	.2	.0	.0		13.3	6.9	17.0	15.5	10.7	9.9
S	11.6	7.4	.4	.0	.0		19.3	6.4	21.5	18.9	19.2	18.3
SW	10.2	8.0	1.1	.1	.0		19.3	7.3	18.4	16.7	23.4	20.6
W	6.7	4.3	.8	.2	.0		11.9	7.6	11.0	12.4	12.0	11.8
NW	4.7	2.0	.3	.1	.0		7.1	6.5	6.2	7.0	7.0	7.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	13.0						13.0	.0	7.3	12.5	12.4	17.6
TOT OBS	632	328	30	3	0	993		5.9	178	359	169	287
TOT PCT	63.6	33.0	3.0	.3	.0		100.0		100.0	100.0	100.0	100.0

OCTOBER

PERIOD: (PRIMARY) 1908-1971
(OVER-ALL) 1855-1971

AREA 0008 WEST BORNEO
.5N 107.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	7.3	19.7	62.9	9.6	.6	.0	.0	5.9	100.0	178
06&09	12.5	15.3	60.4	9.7	1.7	.3	.0	6.3	100.0	359
12&15	12.4	20.7	52.1	14.8	.0	.0	.0	6.1	100.0	169
18&21	17.4	17.1	57.1	8.0	.3	.0	.0	5.4	100.0	287
TOT	195	174	581	100	8	1	0	5.9		993
PCT	19.0	17.5	58.5	10.1	.8	.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	2.3	.6		5.7
NE	.8	1.6	1.8	3.3		6.1
E	.0	1.6	5.7	4.3		6.2
SE	1.6	2.7	7.0	2.7		5.7
S	.0	1.8	7.0	4.9		6.4
SW	.2	.2	8.6	7.6		7.3
W	.6	.8	6.4	9.8		7.1
NW	.0	.0	1.8	1.2		7.3
VAR	.0	.0	.0	.0		.0
CALM	2.3	2.3	3.1	3.1		4.9
TOT OBS	8	16	56	48	128	6.3
TOT PCT	6.3	12.5	43.8	37.5	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	600 939	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	2.4	
NE	.0	.0	.0	.0	2.5	.8	.2	.0	.0	.0	3.9	
E	.0	.0	.0	.8	2.0	.8	.6	.0	.0	.0	8.2	
SE	.0	.0	.0	2.5	1.8	1.0	.8	.0	.0	.0	8.0	
S	.0	.0	.0	2.0	2.3	.6	.0	.6	.0	.0	8.2	
SW	.0	.0	.0	1.4	3.9	1.6	.8	.0	.0	.0	8.0	
W	.0	.0	.8	4.7	3.3	.8	.0	.0	.0	.0	8.0	
NW	.0	.0	.0	.4	.6	.0	.8	.0	.0	.0	1.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	2.3	1.6	.0	.0	.0	.0	.0	7.0	
TOT OBS	0	0	1	18	25	7	4	2	0	0	71	128
TOT PCT	.0	.0	.8	14.1	19.5	5.5	3.1	1.6	.0	.0	55.5	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	1.5	1.5	1.5	1.5	1.5	1.5	1.5
* OR >3500	3.8	4.5	4.5	4.5	4.5	4.5	4.5	4.5
* OR >2000	6.1	8.3	9.8	9.8	9.8	9.8	9.8	9.8
* OR >1000	19.7	25.8	28.8	28.8	28.8	28.8	28.8	28.8
* OR >600	31.1	37.9	42.4	42.4	42.4	42.4	42.4	42.4
* OR >300	31.8	38.6	43.2	43.2	43.2	43.2	43.2	43.2
* OR >150	31.8	38.6	43.2	43.2	43.2	43.2	43.2	43.2
* OR > 0	31.8	38.6	43.2	43.2	43.2	43.2	43.2	43.2
TOTAL	42	51	57	57	57	57	57	57

TOTAL NUMBER OF OBS: 132 PCT FREQ NH <5/8: 56.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
2.3	7.5	20.1	12.1	14.9	10.9	10.3	13.8	8.6	.0	174

OCTOBER

PERIOD: (PRIMARY) 1908-1971
(OVCS-ALL) 1954-1971

AREA 0008 WEST BORNEO
.5N 107.4E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.4	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.4	
1<2	PCP	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.8	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.8	
2<5	PCP	.0	.4	.0	.4	.0	.4	.7	.1	.0	.0	2.1	
	NO PCP	.0	.4	.4	.4	.4	.4	.0	.0	.0	.4	2.5	
	TOT %	.0	.8	.4	.8	.4	.8	.7	.1	.0	.4	4.6	
5<10	PCP	.0	.0	.8	.0	.0	1.3	.0	.0	.0	.4	2.5	
	NO PCP	.8	.5	.9	2.7	3.4	2.5	2.7	1.1	.0	1.7	16.4	
	TOT %	.8	.5	1.8	2.7	3.4	3.8	2.7	1.1	.0	2.1	18.9	
10+	PCP	.4	.4	.0	.0	.0	.9	2.5	.2	.0	.0	4.2	
	NO PCP	3.2	4.4	7.9	11.6	11.4	14.7	7.9	3.3	.0	6.7	71.0	
	TOT %	3.6	4.8	7.9	11.6	11.4	15.6	10.7	3.5	.0	6.7	75.2	
	TOT OBS												238
	TOT PCT	4.4	6.6	10.5	15.5	15.2	19.6	14.2	4.6	.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	.4	.0	.0	.0	.0	.0	.0	.0	.4	
	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	.4	.0	.0	.0	.0	.0	.0	.0	.4	
1<2	0-3	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	.4	
	4-10	.0	.0	.2	.4	.0	.2	.0	.0	.0		.8	
	11-21	.0	.2	.0	.0	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	.2	.4	.0	.4	.0	.0	.0	.2	1.3	
2<5	0-3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	.4	
	4-10	.0	.5	.4	.6	.4	.5	.0	.0	.0		2.3	
	11-21	.0	.0	.1	.1	.2	.0	.3	*	.0		.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.7	.5	.7	.6	.5	.3	*	.0	.2	3.5	
5<10	0-3	.2	.0	.2	.3	.4	.3	.2	.2	.0	2.1	3.9	
	4-10	.5	.4	1.0	1.6	1.8	1.3	1.2	.9	.0		8.7	
	11-21	.0	.0	.0	.0	.4	.8	.1	.1	.0		1.3	
	22+	.0	.0	.0	.0	.1	.2	.3	.0	.0		.6	
	TOT %	.7	.4	1.2	1.9	2.7	2.5	1.7	1.2	.0	2.1	14.5	
10+	0-3	1.4	1.6	1.7	.6	1.3	1.7	2.7	1.7	.0	11.4	24.1	
	4-10	2.4	2.6	2.9	7.9	11.2	10.5	8.2	3.2	.0		46.8	
	11-21	.3	.2	1.2	1.6	1.4	2.2	1.5	.5	.0		9.1	
	22+	.0	.0	.0	.0	.0	.2	.2	.0	.0		.4	
	TOT %	4.0	4.4	5.8	10.1	13.8	14.6	10.7	5.4	.0	11.4	80.3	
	TOT OBS												519
	TOT PCT	4.7	5.7	8.1	13.1	17.1	18.0	12.8	6.6	.0	13.9	100.0	

OCTOBER

PERIOD: (PRIMARY) 1908-1971
(OVER-ALL) 1859-1971

AREA 0008 WEST BORNEO
.5N 107.4E

TABLE 10

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

HOUR (GMT)	000 149	150 299	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	23.7	.0	.0	.0	.0	.0	34.2	65.8	38
06Z09	.0	.0	.0	8.7	8.7	4.3	6.5	2.2	.0	.0	30.4	69.6	46
12Z15	.0	.0	2.7	13.5	16.2	2.7	.0	2.7	.0	.0	37.8	62.2	37
18Z21	.0	.0	.0	14.3	17.1	11.4	2.9	.0	.0	.0	45.7	54.3	35
TOT	0	0	0	18	25	7	4	2	0	0	57	99	156
PCT	.0	.0	.0	11.5	16.0	4.5	2.6	1.3	.0	.0	36.5	63.5	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	.0	.0	1.9	2.9	14.3	81.0	105
06Z09	.0	.6	1.2	2.4	16.1	79.8	168
12Z15	.0	.0	3.1	5.2	14.4	77.3	97
18Z21	.0	.6	1.9	3.8	13.2	81.1	159
TOT	0	2	9	18	77	423	529
PCT	.0	.4	1.7	3.4	14.6	80.0	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
00Z03	.0	.0	12.9	29.0	58.1	31
06Z09	.0	.0	13.2	23.7	63.2	38
12Z15	.0	3.0	30.3	15.2	54.5	33
18Z21	.0	.0	16.7	36.7	46.7	30
TOT	0	1	24	34	74	132
PCT	.0	.8	18.2	25.8	56.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.6	.0	.0	.0	1	.6
85/89	.0	.0	.0	.6	1.8	7.1	3.6	.0	22	13.0
80/84	.0	.0	.0	.0	1.8	23.1	40.2	7.7	123	72.8
75/79	.0	.0	.0	.0	.0	.6	5.3	7.7	23	13.6
TOTAL	0	0	0	1	7	52	83	26	169	100.0
PCT	.0	.0	.0	.6	4.1	30.8	49.1	15.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.4	.1	.0	.0	.0	.0	.0	.0
.0	.7	2.5	2.4	2.1	2.7	1.5	.6	.0	.6
3.8	3.6	8.6	11.2	9.3	15.5	11.4	1.6	.0	7.7
.0	1.2	.0	2.4	.4	4.1	4.3	.6	.0	.0
3.8	5.5	11.5	16.1	11.8	22.3	17.2	2.8	.0	8.9

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00Z03	89	86	84	82	78	76	75	81.7	177
06Z09	94	91	88	83	78	76	73	83.0	364
12Z15	86	85	85	82	79	76	69	81.9	167
18Z21	85	84	83	81	78	76	75	81.2	282
TOT	94	90	86	82	78	76	69	82.1	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
00Z03	.0	.0	2.4	33.3	45.2	19.0	84	42
06Z09	.0	1.7	6.8	33.9	49.2	8.5	79	59
12Z15	.0	.0	5.3	28.9	55.3	10.5	81	39
18Z21	.0	.0	.0	25.6	41.0	33.3	86	39
TOT	0	1	7	45	85	30	82	178

OCTOBER

PERIOD: (PRIMARY) 1908-1971
(OVER-ALL) 1855-1971

AREA 0008 WEST BORNEO
.5N 107.4E

TABLE 17

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

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
5	.0	.0	.0	.0	.4	.4	2	.0	.8
4	.0	.0	.0	.8	.8	.8	6	.0	2.5
3	.0	.0	.0	.4	.4	.0	2	.0	.8
2	.0	.0	.4	3.4	2.1	.0	14	.0	5.9
1	.0	.0	.4	4.7	2.5	.0	18	.0	7.6
0	.0	.0	.0	11.0	2.5	.0	32	.4	13.1
-1	.0	.0	.8	12.3	.8	.0	33	.0	14.0
-2	.0	.8	1.7	19.9	.4	.0	54	.0	22.9
-3	.0	.0	1.3	8.5	.0	.0	23	.0	9.7
-4	.0	.0	3.8	5.9	.0	.0	2[illegible]	.0	9.7
-5	.0	.0	3.8	3.0	.0	.0	16	.0	6.8
-6	.0	.0	1.3	.4	.0	.0	4	.0	1.7
-7/-8	.4	.8	2.1	.0	.0	.0	8	.0	3.4
-9/-10	.0	.4	.0	.0	.0	.0	1	.0	.4
TOTAL	1	5	37	166	24	3	2-6	1	235
PCT	.4	2.1	15.7	70.3	10.2	1.3	100.0	.4	99.6

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	1.4	2.9	.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	1.4	2.9	.0	.0	.0	.0	4.3

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	3.3	.0	.0	.0	.0	3.3
3-4	.0	4.3	.0	.0	.0	.0	4.3
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	7.6	.0	.0	.0	.0	7.6

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	2.5	2.5	.0	.0	.0	5.1
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	6.9	2.5	.0	.0	.0	9.4

SE

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	5.8	.4	.0	.0	.0	6.2
3-4	.0	1.4	1.4	.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	9.1	1.8	.0	.0	.0	10.9

PERIOD: (OVER-ALL) 1963-1971

OCTOBER

TABLE 18 (CONT)

AREA 0000 WEST BORNEO
.3N 107.4E

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.5	.0	.0	.0	.0	2.5
1-2	.0	4.0	.0	.0	.0	.0	4.0
3-4	.0	2.5	2.9	.0	.0	.0	5.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	9.1	2.9	.0	.0	.0	12.0

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.4	.0	.0	.0	.0	.7
1-2	.0	5.9	1.8	.0	.0	.0	8.7
3-4	.0	4.7	1.4	.0	.0	.0	6.2
5-6	.0	1.4	.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	.4	13.4	3.3	.0	.0	.0	17.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	2.2	.0	.0	.0	.0	3.3
1-2	1.4	7.6	1.1	.0	.0	.0	10.1
3-4	.0	.0	2.9	.0	.0	.0	2.9
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	2.5	9.8	6.2	.0	.0	.0	18.5

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.6	.0	.0	.0	.0	.6	
1-2	.0	3.3	.0	.0	.0	.0	3.3	
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	.0	3.6	.7	.0	.0	.0	4.3	84.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	17.4	8.7	.0	.0	.0	.0	26.1	
1-2	2.9	36.2	5.8	.0	.0	.0	44.9	
3-4	.0	15.9	8.7	.0	.0	.0	24.6	
5-6	.0	1.4	2.9	.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	20.3	62.3	17.4	.0	.0	.0	100.0	69

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	9.2	35.8	22.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	75	2
6-7	.0	1.3	4.4	.9	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	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	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	18.3	.9	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
TOTAL	30	42	31	2	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	29	0
PCT	27.5	38.5	28.4	1.8	.9	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	109	2
																				100.0	

NOVEMBER

PERIOD: (PRIMARY) 1915-1971
(OVER-ALL) 1854-1971

AREA 0008 WEST BORNEO
.6N 107.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	6.1	2.2	.0	.0	.0	.0	.0	8.3	3.5	2.6	1.8	.0	.0	.0		83.8
NE	5.4	1.2	4.8	.0	.0	.0	.0	11.4	2.4	.0	.0	.0	.0	.0		86.2
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
SE	4.2	.0	.0	.0	.0	.0	.0	4.2	.0	.0	.0	.0	.0	.0		95.8
S	3.5	6.2	3.5	.0	.0	.0	.0	13.3	.0	.0	.0	.0	.0	.0		86.7
SW	4.7	1.0	.5	.0	.0	.0	.0	6.3	1.0	1.0	.0	.0	.0	.0		91.7
W	7.7	5.6	1.5	.0	.0	.0	.0	14.9	6.2	3.6	.0	.0	.0	.0		75.4
NW	.5	2.5	.0	.0	.0	.0	.0	3.0	5.0	6.5	.0	.0	.0	.0		85.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
CALM	5.0	.0	.0	.0	.0	.0	.0	5.0	.0	10.0	5.0	.0	.0	.0		80.0
TOT PCT	4.5	2.4	1.2	.0	.0	.0	.0	8.0	2.7	2.7	.6	.0	.0	.0		86.0
TOT OBS:	336															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	4.8	2.4	.0	.0	.0	.0	.0	7.1	2.4	.0	.0	.0	.0	.0		90.5
06609	2.2	3.2	1.1	.0	.0	.0	.0	6.5	5.4	.0	.0	.0	.0	.0		88.2
12615	5.1	1.3	1.3	.0	.0	.0	.0	7.7	.0	1.3	1.3	.0	.0	.0		89.7
18621	6.4	2.1	2.1	.0	.0	.0	.0	10.6	3.2	8.5	1.1	.0	.0	.0		76.6
TOT PCT	4.6	2.3	1.1	0	.0	.0	.0	8.0	2.9	2.6	.6	.0	.0	.0		86.0
TOT OBS:	349															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	9.8	1.3	.0	.0	.0		13.7	6.2	13.9	12.1	11.8	14.1	13.6	20.0	10.9	16.9
NE	2.4	6.1	.5	.0	.0	.0		9.0	5.5	11.7	20.7	11.0	8.8	4.6	11.2	4.9	10.0
E	1.5	2.3	.3	.0	.0	.0		4.0	5.0	6.3	7.1	5.0	3.3	2.9	6.3	4.3	.9
SE	1.5	3.1	.5	.0	.0	.0		5.0	5.9	5.3	18.6	3.8	3.3	5.5	2.5	6.8	5.3
S	2.2	5.6	1.0	.1	.0	.0		8.9	6.3	9.6	10.0	9.0	7.5	6.0	13.8	11.2	3.8
SW	3.1	11.9	1.8	.2	.0	.0		17.1	6.8	13.7	10.0	16.3	20.9	21.9	17.5	17.3	15.6
W	3.0	9.2	1.4	.3	.0	.0		14.2	6.7	14.0	11.4	14.2	17.0	16.4	11.9	14.1	10.6
NW	3.1	9.8	1.2	.1	.0	.0		14.2	6.3	12.0	7.1	15.2	14.1	16.2	14.4	13.8	15.0
VAR	.3	.0	.0	.0	.0	.0		.3	2.3	.6	.0	.5	.0	.6	.0	.0	.0
CALM	13.6							13.6	.0	12.8	2.9	13.2	11.1	12.3	7.5	19.2	16.9
TOT OBS	351	606	87	7	0	0	1051		5.4	164	35	189	153	154	40	156	160
TOT PCT	33.4	57.7	8.3	.7	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	8.8	4.7	.2	.0	.0		13.7	6.2	13.6	12.8	14.9	13.9
NE	6.3	2.7	.0	.0	.0		9.0	5.5	13.3	10.0	5.8	7.2
E	3.3	.7	*	.0	.0		4.0	5.0	6.4	4.2	3.6	2.6
SE	3.2	1.6	.2	.0	.0		5.0	5.9	7.7	3.6	4.9	5.1
S	5.8	3.0	*	.1	.0		8.9	6.3	9.7	8.3	7.6	10.0
SW	10.2	6.4	.4	.1	.0		17.1	6.8	13.1	18.3	20.0	16.5
W	8.8	4.6	.7	.0	.0		14.2	6.7	14.6	15.4	15.5	12.3
NW	8.9	5.0	.3	.0	.0		14.2	6.3	11.2	14.7	15.9	14.4
VAR	.3	.0	.0	.0	.0		.3	2.3	.5	.3	.5	.0
CALM	13.6						13.6	.0	11.1	12.3	11.3	13.0
TOT OBS	728	302	19	2	0	1051		5.4	199	362	194	316
TOT PCT	69.3	28.7	1.8	.2	.0		100.0		100.0	100.0	100.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1915-1971
(OVER-ALL) 1856-1971

AREA 0008 WEST BORNEO
.6N 107.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	11.1	22.1	57.3	9.0	.5	.0	.0	5.5	100.0	199
06&09	12.3	18.4	57.9	9.9	1.5	.0	.0	5.9	100.0	342
12&15	11.3	21.6	56.7	9.8	.5	.0	.0	5.5	100.0	194
18&21	18.0	18.7	58.2	5.1	.0	.0	.0	4.8	100.0	316
TOT	143	208	606	87	7	0	0	5.4		1051
PCT	13.6	19.8	57.7	8.3	.7	.0	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.0	.8	7.6	5.3		5.9
NE	.3	.2	7.4	.6		6.0
E	.5	1.7	1.8	1.5		5.3
SE	.6	.8	2.0	.2		4.4
S	.0	.5	2.7	3.0		7.0
SW	1.2	2.6	5.8	2.0		5.6
W	1.5	2.1	7.2	7.6		6.2
NW	.6	3.0	9.1	5.9		6.0
VAR	.0	1.2	.6	.0		4.3
CALM	1.2	.6	2.4	2.4		5.9
TOT OBS	13	22	82	47	144	5.9
TOT PCT	7.9	13.4	50.0	28.7	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.3	1.1	3.4	1.1	1.1	.0	.0	.0	8.8	
NE	.0	.0	.3	.0	1.2	.2	.0	.0	.0	.2	6.9	
E	.0	.0	.0	.6	.0	.0	.0	.0	.0	.5	4.4	
SE	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	2.3	
S	.0	.0	.0	.9	2.1	.0	.0	.0	.0	.0	3.2	
SW	.2	.0	.6	4.3	.5	.0	.0	.0	.0	.0	11.1	
W	.5	.0	.0	2.3	2.7	2.0	.6	.0	.0	.0	10.4	
NW	.0	.0	.0	.2	.5	2.3	.8	.0	.0	.0	15.1	
VAR	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	1.2	
CALM	.0	.0	.0	1.8	.6	.6	.0	.0	.0	.0	3.7	
TOT OBS	1	0	2	15	21	10	4	0	0	1	110	144
TOT PCT	.6	.0	1.2	9.1	12.8	6.1	2.4	.0	.0	.6	67.1	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	.6	.6	.6	.6	.6	.6	.6	.6
* OR >5000	.6	.6	.6	.6	.6	.6	.6	.6
* OR >3500	1.2	2.9	2.9	2.9	2.9	2.9	2.9	2.9
* OR >2000	6.4	9.9	9.9	9.9	9.9	9.9	9.9	9.9
* OR >1000	16.9	22.7	22.7	22.7	22.7	22.7	22.7	22.7
* OR >600	24.6	31.4	32.0	32.0	32.0	32.0	32.0	32.0
* OR >300	25.6	32.6	33.1	33.1	33.1	33.1	33.1	33.1
* OR >150	25.6	32.6	33.1	33.1	33.1	33.1	33.1	33.1
* OR > 0	25.6	32.6	33.7	33.7	33.7	33.7	33.7	33.7
TOTAL	44	56	58	58	58	58	58	58

TOTAL NUMBER OF OBS: 172 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
1.5	11.1	22.6	16.6	16.6	5.5	8.5	4.5	14.6	.5	199

NOVEMBER

PERIOD: (PRIMARY) 1915-1971
(OVER-ALL) 1856-1971

AREA 0008 WEST BORNEO
.6N 107.4E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.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	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
	TOT %	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.6	
2<5	PCP	.3	.0	.0	.0	.0	.1	.2	.0	.0	.3	.9	
	NO PCP	.2	.0	.0	.0	.0	.0	.0	.1	.0	.3	.6	
	TOT %	.5	.0	.0	.0	.0	.1	.2	.1	.0	.6	1.5	
5<10	PCP	.7	.7	.0	.0	.5	.7	1.0	.2	.0	.0	3.9	
	NO PCP	3.3	2.3	1.8	.7	1.9	2.2	2.7	2.8	.0	.0	17.6	
	TOT %	4.0	3.1	1.8	.7	2.4	2.9	3.7	3.0	.0	.0	21.5	
10+	PCP	.4	.7	.0	.0	.6	.1	1.0	.2	.0	.0	3.0	
	NO PCP	15.1	8.7	2.8	4.7	5.4	11.8	9.4	11.6	.9	5.4	72.4	
	TOT %	15.5	9.4	2.8	.7	6.0	11.9	10.4	11.9	.9	5.4	76.4	
	TOT OBS												335
	TOT PCT	19.0	12.5	4.6	6.8	8.4	14.9	14.6	14.9	.9	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	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.2	.2	.0	.0	.0	.0	.0	.0	.0		.5	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.2	.0	.0	.0	.0	.0	.0	0	.2	.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.2	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
1<2	0-3	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	.3	
	4-10	.0	.1	.1	.3	.0	.0	.0	.0	.0		.6	
	11-21	.0	.0	.0	.0	.0	.2	.2	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.2	.3	.0	.2	.2	.2	.0	.2	1.2	
2<5	0-3	.0	.0	.0	.0	.2	.0	.0	.2	.0	.8	1.1	
	4-10	.3	.0	.0	.0	.2	.3	.1	.2	.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 %	.3	.0	.0	.0	.4	.3	.1	.3	.0	.8	2.1	
5<10	0-3	.1	.5	.6	.0	.5	.2	.5	.1	.0	.9	3.3	
	4-10	2.1	1.3	.3	.8	1.1	1.6	1.3	1.2	.0		9.7	
	11-21	.3	.1	.1	.0	.2	.3	.4	.6	.0		1.8	
	22+	.0	.0	.0	.0	.1	.2	.2	.0	.0		.5	
	TOT %	2.5	1.9	1.0	.8	1.8	2.2	2.2	1.8	.0	.9	15.3	
10+	0-3	1.7	2.5	.9	1.2	1.6	2.4	2.1	2.9	.5	11.5	27.3	
	4-10	9.2	6.4	2.2	2.5	3.2	8.8	7.3	8.8	.0		48.5	
	11-21	.8	.3	.4	.4	.3	.9	1.0	.4	.0		4.5	
	22+	.0	.0	.0	.0	.0	.0	.1	.2	.0		.3	
	TOT %	11.7	9.2	3.4	4.1	5.2	12.2	10.6	12.3	.5	11.5	30.6	
	TOT OBS												660
	TOT PCT	14.7	11.4	4.6	5.3	7.4	15.0	13.1	14.6	.5	13.5	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1954-1971
(OVER-ALL) 1854-1971

AREA 0008 WEST BORNEO
.0N 107.4E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	1.9	5.6	9.3	9.3	1.9	.0	.0	.0	27.8	72.2	54
06E09	.0	.0	2.1	6.3	8.3	6.3	.0	.0	.0	.0	22.9	77.1	48
12E15	.0	.0	.0	14.3	14.3	4.8	2.4	.0	.0	.0	35.7	64.3	42
18E21	2.0	.0	.0	8.0	14.0	4.0	4.0	.0	.0	2.0	34.0	66.0	50
TOT	1	0	2	16	22	12	4	0	0	1	58	136	194
PCT	.5	.0	1.0	8.2	11.3	6.2	2.1	.0	.0	.5	29.9	70.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.7	.0	.0	.7	11.3	87.2	141
06E09	.5	.5	2.6	1.6	10.4	84.5	193
12E15	.0	.0	.8	3.1	25.4	70.8	130
18E21	1.0	.0	1.0	3.3	15.8	78.9	209
TOT	4	2	8	15	102	543	673
PCT	.6	.3	1.2	2.2	15.2	80.7	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 <500	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	2.2	8.9	24.4	66.7	45
06E09	.0	2.2	8.9	15.6	75.6	45
12E15	.0	.0	15.8	23.7	60.5	38
18E21	2.3	2.3	13.6	27.3	59.1	44
TOT	1	3	20	39	113	172
PCT	.6	1.7	11.6	22.7	65.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.6	.0	.0	.0	.0	1	.6
85/89	.0	.0	.0	.0	1.1	3.3	.0	.0	9	5.0
80/84	.0	.0	.0	.0	.0	29.4	47.2	6.1	149	82.8
75/79	.0	.0	.0	.0	.0	.6	4.4	6.7	21	11.7
TOTAL	0	0	0	1	2	60	94	23	180	100.0
PCT	.0	.0	.0	.6	1.1	33.3	52.2	12.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.7	.4	.0	.6	1.1	.3	1.4	.0	.0
	14.7	10.4	4.6	2.5	4.3	14.2	12.6	12.8	1.7	5.0
	2.2	.8	.0	.7	1.3	.8	3.5	1.8	.0	.6
	17.4	12.1	5.0	3.8	6.1	16.1	16.4	16.0	1.7	5.6

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	90	86	85	82	77	75	73	81.6	200
06E09	93	89	86	82	78	75	74	82.4	345
12E15	86	84	84	82	78	76	76	81.3	191
18E21	83	84	83	81	79	75	75	81.1	315
TOT	93	88	85	82	78	76	73	81.6	1051

TABLE 16

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	30.0	52.0	18.0	83	50
06E09	.0	2.0	4.1	44.9	42.9	6.1	79	49
12E15	.0	.0	.0	37.5	50.0	12.5	82	40
18E21	.0	.0	.0	19.6	64.7	15.7	84	51
TOT	0	1	2	82	100	29	82	190

NOVEMBER

PERIOD: (PRIMARY) 1918-1971
(OVER-ALL) 1956-1971

AREA 000W WEST BORNEO
.6N 107.4E

TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
6	.0	.0	.0	.0	.0	.3	1	.0	.3
5	.0	.0	.0	.6	.0	.0	2	.0	.6
4	.0	.0	.3	.6	.3	.0	4	.0	1.2
3	.0	.0	.0	.3	.0	.0	1	.0	.3
2	.0	.3	4.0	1.8	.0	.0	20	.0	6.1
1	.0	.0	2.1	.3	.0	.0	10	.0	3.0
0	.0	.9	12.5	.9	.0	.0	47	.0	14.3
-1	.0	.3	7.3	.3	.0	.0	26	.0	7.9
-2	.0	2.4	23.4	.6	.0	.0	87	.0	26.4
-3	.3	3.6	6.7	.0	.0	.0	35	.0	10.6
-4	.0	8.5	8.8	.0	.0	.0	57	.3	17.0
-5	.3	5.2	3.6	.0	.0	.0	30	.3	8.8
-6	.0	.9	.0	.0	.0	.0	3	.0	.9
-7/-8	.0	1.2	.0	.0	.0	.0	4	.0	1.2
-9/-10	.0	.6	.0	.0	.0	.0	2	.0	.6
TOTAL	2		226		1			2	327
		79		20		1	327		
PCT	.6	24.0	68.7	6.1	.3	.3	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							NE						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.8	.0	.0	.0	.0	.0	2.8	4.6	.0	.0	.0	.0	.0	4.6
1-2	.0	9.5	.0	.0	.0	.0	9.5	7.8	3.9	.4	.0	.0	.0	7.0
3-4	.0	2.8	.0	.0	.0	.0	2.8	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.8	12.3	1.1	.0	.0	.0	16.2	7.4	3.9	.4	.0	.0	.0	11.8

	E							SE						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	4.2	.0	.0	.0	.0	5.3	.0	.0	.0	.0	.0	.0	.0
1-2	1.4	2.5	2.1	.0	.0	.0	6.0	.0	1.8	[illegible]	.0	.0	.0	2.1
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	[illegible]	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	[illegible]	.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	2.5	6.7	2.1	.0	.0	.0	11.3	.0	1.8	.4	.0	.0	.0	2.1

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.8	.0	.0	.0	.0	1.8
1-2	.0	1.1	.0	.0	.0	.0	1.1	.0	4.6	1.4	.0	.0	.0	3.2
3-4	.0	1.4	.0	.0	.0	.0	1.4	.0	.0	1.4	.0	.0	.0	1.4
5-6	.0	.0	1.1	.0	.0	.0	1.1	.0	.4	2.1	.0	.0	.0	2.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.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	.0	2.5	1.1	.0	.0	.0	3.5	.0	3.9	4.9	.4	.0	.0	9.2

	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	1.4	2.5	.0	.0	.0	.0	3.9	1.4	.0	.0	.0	.0	.0	1.4	
1-2	.0	10.2	.0	.0	.0	.0	10.2	2.8	8.8	.0	.0	.0	.0	11.6	
3-4	.0	1.1	.0	1.4	.0	.0	2.5	.0	1.8	1.4	.0	.0	.0	3.2	
5-6	.0	1.1	1.1	.0	.0	.0	2.1	.0	1.4	.0	.0	.0	.0	1.4	
7	.0	.0	.0	1.1	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.4	14.8	1.1	2.5	.0	.0	19.7	4.2	12.0	1.8	.0	.0	.0	18.0	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	23.0	8.1	.0	.0	.0	.0	31.1	
1-2	6.8	37.8	4.1	.0	.0	.0	48.6	
3-4	.0	6.8	2.7	1.4	.0	.0	10.8	
5-6	.0	2.7	4.1	.0	.0	.0	6.8	
7	.0	.0	.0	1.4	.0	.0	1.4	
8-9	.0	.0	1.4	.0	.0	.0	1.4	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	29.7	55.4	12.2	2.7	.0	.0	100.0	74

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	10.2	34.6	17.3	3.9	.0	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	86	2
6-7	.0	1.6	2.4	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	4
8-9	.0	.0	3.9	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	4
10-11	.0	.8	.8	.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	16.5	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	0
TOTAL	34	49	31	10	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	127	?
PCT	26.8	38.6	24.4	7.9	.0	1.6	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1856-1972

AREA 0008 WEST BORNEO
.6N 107.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	4.5	1.6	1.4	.0	.0	.0	.0	7.4	2.7	.0	.0	.0	.0	.0		89.9
NE	9.6	1.3	.3	.0	.0	.0	.0	11.2	5.1	.0	.0	.0	.0	.0		83.7
E	3.2	.0	.0	.0	.0	.0	.0	3.2	.0	.0	6.3	.0	.0	.0		90.5
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	5.0	10.0	.0	.0	.0	.0	.0	15.0	.0	10.0	.0	.0	.0	.0		75.0
W	2.9	5.7	.0	.0	.0	.0	.0	8.6	.0	5.7	.0	.0	.0	.0		85.7
NW	3.0	.0	.0	.0	.0	.0	.0	3.0	3.6	.0	.0	.0	.0	.0		93.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	11.1	.0	.0	.0	.0	.0	11.1	11.1	.0	.0	.0	.0	.0		77.8
TOT PCT	5.2	2.0	.7	.0	.0	.0	.0	7.8	3.3	.7	.3	.0	.0	.0		87.9
TOT OBS:	307															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	5.5	2.6	1.3	.0	.0	.0	.0	10.4	2.6	.0	1.3	.0	.0	.0		85.7
06609	3.7	2.5	1.2	.0	.0	.0	.0	7.4	2.5	.0	.0	.0	.0	.0		90.1
12615	5.1	1.3	.0	.0	.0	.0	.0	6.4	5.1	1.3	.0	.0	.0	.0		87.2
18621	5.5	1.4	.0	.0	.0	.0	.0	6.8	2.7	1.4	.0	.0	.0	.0		89.0
TOT PCT	5.2	1.9	.6	.0	.0	.0	.0	7.8	3.2	.6	.3	.0	.0	.0		88.0
TOT OBS:	309															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	17.2	10.8	.7	.0	.0		29.8	10.3	25.0	46.7	26.8	32.4	27.2	47.5	26.3	33.5
NE	1.3	9.5	5.5	.6	.0	.0		17.0	9.8	18.4	28.3	20.1	13.8	13.1	33.8	13.6	14.9
E	.7	1.9	.6	.0	.0	.0		3.2	6.6	5.5	7.9	4.0	2.9	2.5	2.5	.9	2.4
SE	.3	1.1	.2	.0	.0	.0		1.7	6.6	1.9	2.6	2.6	.7	1.9	1.3	.9	1.8
S	.6	1.9	.3	.0	.0	.0		2.8	6.4	2.3	2.6	2.8	2.6	3.5	.0	2.9	3.7
SW	.9	5.3	.9	*	.0	.0		7.1	7.2	7.4	.0	6.1	5.9	7.9	.0	9.8	8.8
W	1.1	6.7	1.8	.3	.0	.0		9.9	8.1	7.9	2.6	11.0	15.4	10.0	5.0	12.1	6.4
NW	.8	14.2	4.8	.6	.0	.0		20.3	9.1	22.6	9.2	18.9	23.3	21.8	10.0	21.8	19.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.2							8.2	.0	9.0	.0	7.7	2.9	12.0	.0	11.7	9.1
TOT OBS	160	610	269	23	0	0	1056		8.4	155	38	194	136	158	40	171	164
TOT PCT	15.2	57.8	24.9	2.2	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	7.1	18.5	4.4	.0	.0		29.8	10.3	29.3	29.1	31.3	29.9
NE	5.1	10.2	1.6	.1	.0		17.0	9.8	20.3	17.5	17.3	14.3
E	1.9	1.2	*	.0	.0		3.2	6.6	6.0	3.6	2.5	1.6
SE	1.1	.5	.1	.0	.0		1.7	6.6	2.1	1.8	1.8	1.3
S	1.7	1.1	.0	.0	.0		2.8	6.4	2.3	2.7	2.8	3.3
SW	3.8	3.0	.3	.0	.0		7.1	7.2	6.0	6.0	6.3	9.3
W	5.2	3.8	.8	.1	.0		9.9	8.1	6.9	12.8	9.0	9.3
NW	7.1	11.7	1.1	.3	.0		20.3	9.1	19.9	20.8	19.4	20.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	8.2						8.2	.0	7.3	5.8	9.6	10.4
TOT OBS	437	526	87	6	0	1056		8.4	193	330	198	335
TOT PCT	41.4	49.8	8.2	.6	.0		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1955-1972

AREA 0008 WEST BORNEO
.6N 107.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	7.3	9.8	59.6	21.8	1.6	.0	.0	8.0	100.0	193
06&09	5.8	6.7	57.0	28.8	1.8	.0	.0	8.9	100.0	330
12&15	9.6	5.6	55.1	27.8	2.0	.0	.0	8.5	100.0	192
18&21	10.4	6.3	59.1	21.2	3.0	.0	.0	8.1	100.0	335
TOT	87	73	610	263	23	0	0	8.4		1056
PCT	8.2	6.9	57.8	24.9	2.2	.0	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	7.1	9.7	16.6	9.5		5.4
NE	.2	3.0	10.2	7.7		6.5
E	.7	.0	2.0	1.1		5.2
SE	.0	.0	.0	.7		8.0
S	.0	.0	.0	1.4		8.0
SW	.2	.0	1.4	3.8		7.5
W	.5	1.3	2.1	1.8		5.8
NW	2.0	1.4	9.1	7.0		6.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.7	2.1	.7		5.6
TOT OBS	15	17	61	47	140	6.0
TOT PCT	10.7	12.1	43.6	33.6	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 499	500 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.7	.0	.5	3.2	3.9	2.1	2.7	.0	.0	.0	25.[illegible]	
NE	.0	.0	.9	3.8	4.1	.0	.2	.0	.0	.0	12.1	
E	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	3.2	
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	
S	.0	.0	.0	.0	.7	.7	.0	.0	.0	.0	.0	
SW	.0	.2	.0	.7	.7	.0	.0	.0	.0	.0	3.8	
W	.0	.8	.0	.0	1.3	1.4	.0	.0	.0	.0	2.5	
NW	.0	.0	.0	3.0	.9	2.1	.0	.0	.0	.7	12.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	2.9	
TOT OBS	1	1	2	15	17	10	4	0	0	1	89	140
TOT PCT	.7	.7	1.4	10.7	12.1	7.1	2.9	.0	.0	.7	63.6	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >500YD	* OR >0
* OR >6500	.0	.7	.7	.7	.7	.7	.7	.7
* OR >5000	.0	.7	.7	.7	.7	.7	.7	.7
* OR >3500	.7	2.8	2.8	2.8	2.8	2.8	2.8	2.8
* OR >2000	5.7	9.9	9.9	9.9	9.9	9.9	9.9	9.9
* OR >1000	12.8	20.6	22.0	22.0	22.0	22.0	22.0	22.0
* OR >600	19.1	29.1	31.9	32.6	32.6	32.6	32.6	32.6
* OR >300	19.1	29.8	32.6	34.0	34.0	34.0	34.0	34.0
* OR >150	19.1	30.5	33.3	34.8	34.8	34.8	34.8	34.8
* OR > 0	19.1	30.5	34.0	35.5	35.5	35.5	35.5	35.5
TOTAL	27	43	48	50	50	50	50	50

TOTAL NUMBER OF OBS: 141 PCT FREQ NH <5/8: 64.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
1.3	5.8	21.2	17.9	16.0	10.9	7.7	7.1	12.2	.6	156

DECEMBER

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1856-1972

AREA 0038 WEST BORNEO
.6N 107.4E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
	TOT %	.2	.8	.0	.0	.0	.0	.3	.0	.0	.0	1.3	
2<5	PCP	.3	.7	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
	NO PCP	.8	.3	.0	.0	.3	.0	.0	.0	.0	.3	2.0	
	TOT %	1.1	1.1	.0	.0	.3	.0	.0	.0	.0	.3	2.9	
5<10	PCP	1.2	.4	.2	.0	.0	.0	.0	.3	.0	.3	2.6	
	NO PCP	11.5	5.6	.5	.5	.0	.5	1.1	2.9	.0	.3	22.9	
	TOT %	12.7	6.1	.7	.5	.0	.5	1.1	3.2	.0	.7	25.5	
10+	PCP	1.4	.5	.0	.0	.0	.8	.5	.1	.0	.0	2.9	
	NO PCP	26.3	16.7	4.5	.5	.7	2.3	3.8	10.4	.0	2.0	67.0	
	TOT %	27.7	17.2	4.5	.5	.7	2.8	4.2	10.5	.0	2.0	69.9	
	TOT OBS												306
	TOT PCT	41.7	25.6	5.1	1.0	1.0	3.9	5.7	13.6	.0	2.9	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.2	.0	.0	.0	.0	.0	.0	.0		.2	
	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	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.1	.1	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.1	.0	.0	.0	.0	.2	.0	.0		.3	
	11-21	.0	.3	.0	.0	.0	.0	.0	.0	.0		.3	
	22+	.0	.2	.0	.0	.0	.0	.0	.0	.0		.2	
	TOT %	.1	.5	.0	.0	.0	.0	.2	.0	.0	.0	.8	
2<5	0-3	.0	.2	.0	.0	.2	.0	.0	.0	.0	.3	.6	
	4-10	.2	.5	.1	.1	.1	.1	.1	.3	.0		1.4	
	11-21	.6	.3	.2	.0	.0	.0	.0	.0	.0		1.1	
	22+	.2	.3	.0	.0	.0	.0	.0	.0	.0		.5	
	TOT %	1.0	1.2	.2	.1	.2	.1	.1	.3	.0	.3	3.6	
5<10	0-3	.2	.4	.2	.2	.0	.0	.0	.2	.0	.8	1.0	
	4-10	2.9	.9	.1	.1	.2	.7	.9	1.4	.0		7.2	
	11-21	3.4	1.8	.1	.0	.1	.2	.2	.4	.0		6.2	
	22+	.2	.2	.0	.0	.0	.0	.2	.0	.0		.5	
	TOT %	6.7	3.3	.3	.2	.3	.9	1.2	2.0	.0	.8	15.8	
10+	0-3	.6	1.4	.9	.2	.5	.5	.4	.2	.0	7.2	11.9	
	4-10	17.7	9.2	1.7	.6	.9	2.5	3.0	11.2	.0		48.8	
	11-21	9.1	4.2	.6	.1	.1	.5	.6	3.2	.0		18.4	
	22+	.3	.2	.0	.0	.0	.0	.0	.0	.0		.5	
	TOT %	27.8	14.9	3.2	.9	1.6	3.6	5.9	14.5	.0	7.2	79.6	
	TOT OBS												641
	TOT PCT	35.6	20.2	3.8	1.2	2.2	4.6	7.3	16.8	.0	8.3	100.0	

DECEMBER

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1854-1972

AREA 0008 WEST BORNEO
.6N 107.4E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00Z03	.0	.0	5.4	10.8	16.2	5.4	2.7	.0	.0	.0	40.5	59.5	37
06Z09	.0	2.3	.0	9.1	6.8	6.8	4.5	.0	.0	2.3	31.8	68.2	44
12Z15	.0	.0	.0	13.9	16.7	8.3	2.8	.0	.0	.0	41.7	58.3	36
18Z21	3.2	.0	.0	6.5	6.5	6.5	.0	.0	.0	.0	22.6	77.4	31
TOT	1	1	2	15	17	10	4	0	0	1	51	97	148
PCT	.7	.7	1.4	10.1	11.5	6.8	2.7	.0	.0	.7	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
00Z03	.0	.0	7.2	3.7	9.6	84.4	135
06Z09	.0	.6	.0	3.9	15.2	80.3	178
12Z15	.0	.0	1.9	.8	19.1	78.6	131
18Z21	.5	.0	.0	5.0	18.1	76.4	199
TOT	1	1	5	23	101	512	643
PCT	.2	.2	.8	3.6	15.7	79.6	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00Z03	.0	5.4	18.9	21.6	59.5	37
06Z09	.0	2.4	14.3	16.7	69.0	42
12Z15	.0	.0	14.3	28.6	57.1	35
18Z21	3.7	3.7	11.1	14.8	74.1	27
TOT	1	4	21	29	91	141
PCT	.7	2.8	14.9	20.6	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	.7	.7	.0	.0	.0	2	1.4
85/89	.0	.0	.0	.0	.7	4.3	.0	.0	7	5.0
80/84	.0	.0	.0	.0	.0	22.3	43.9	7.2	102	73.4
75/79	.0	.0	.0	.0	.0	1.4	10.8	7.9	28	20.1
TOTAL	0	0	0	1	2	39	76	21	139	100.0
PCT	.0	.0	.0	.7	1.4	28.1	54.7	15.1		

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	.7	.0	.0
3.4	.2	.7	.0	.0	.0	.0	.7	.0	.0
28.1	15.5	3.1	.0	.7	4.5	3.2	14.0	.0	4.3
5.3	4.7	.0	.0	.0	2.0	3.1	2.7	.0	1.4
37.8	21.0	3.8	.0	.7	6.5	6.3	18.2	.0	5.8

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	92	88	85	81	77	75	75	80.9	191
06Z09	94	90	86	82	77	75	73	81.7	332
12Z15	88	84	83	81	77	75	75	80.6	195
18Z21	87	84	83	81	76	73	73	80.2	332
TOT	94	87	84	81	77	74	73	80.9	1050

TABLE 16

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	19.4	54.8	25.8	85	31
06Z09	.0	2.2	4.3	41.3	32.6	19.6	81	46
12Z15	.0	.0	.0	28.6	71.4	.0	82	35
18Z21	.0	.0	.0	14.3	71.4	14.3	84	28
TOT	0	1	2	39	77	21	83	140

DECEMBER

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1856-1972

TABLE 17

AREA 0008 WEST BORNEO
.6N 107.4E

PCT 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	.3	.0	1	.0	.3
9/10	.0	.0	.0	.3	.0	.3	2	.0	.7
6	.0	.0	.0	.3	.3	.0	2	.0	.7
5	.0	.0	1.0	.0	.0	.0	3	.0	1.0
4	.0	.0	.3	1.7	.0	.0	6	.0	2.1
3	.0	.0	.3	.7	.0	.0	3	.0	1.0
2	.0	.3	7.3	1.0	.0	.0	25	.0	8.7
1	.0	1.0	3.8	.3	.0	.0	15	.0	5.2
0	.3	4.8	11.8	.0	.0	.0	49	.0	17.0
-1	.0	1.7	7.6	.3	.0	.0	28	.0	9.7
-2	.3	10.7	15.9	.3	.0	.0	79	.0	27.3
-3	.0	3.8	2.1	.0	.0	.0	17	.0	5.9
-4	1.4	6.2	5.2	.0	.0	.0	37	.3	12.5
-5	.7	3.5	.3	.0	.0	.0	13	.0	4.5
-6	.3	1.4	.0	.0	.0	.0	5	.0	1.7
-7/-8	.0	1.0	.0	.0	.0	.0	3	.0	1.0
-9/-10	.3	.0	.0	.0	.0	.0	1	.0	.3
TOTAL	10	162		19	1		289	1	288
PCT	3.5	100 34.6	56.1	6.2	.3	.3	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.8	.0	.0	.0	.0	1.8
1-2	.0	16.6	.9	.0	.0	.0	17.5
3-4	.0	4.2	11.1	.0	.0	.0	15.4
5-6	.0	.0	1.2	1.2	.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	.0	22.6	13.3	1.2	.0	.0	37.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.6	.0	.0	.0	.0	.9
1-2	1.2	4.8	.0	.0	.0	.0	6.0
3-4	.0	5.1	5.4	.0	.0	.0	10.5
5-6	.0	.0	2.4	1.2	.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	1.5	10.5	7.8	1.2	.0	.0	21.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	1.2	.0	.0	.0	.0	2.1
1-2	.0	.9	1.2	.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	.9	2.1	1.2	.0	.0	.0	4.2

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	.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

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	.3	.0	.0	.0	.0	.3
1-2	.0	.0	.0	.0	.0	.0	.0	.0	6.3	.0	.0	.0	.0	6.3
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	6.6	.0	.0	.0	.0	6.6

	W							NW							
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.9	.0	.0	.0	.0	.9	.0	2.4	.0	.0	.0	.0	2.4	
1-2	.0	4.5	.0	.0	.0	.0	4.5	.0	10.2	2.7	.0	.0	.0	13.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	2.7	2.7	.0	.0	.0	5.4	
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	5.4	.0	.0	.0	.0	5.4	.0	15.4	5.4	.0	.0	.0	20.8	95.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.0	8.3	.0	.0	.0	.0	14.3	
1-2	1.2	42.9	4.8	.0	.0	.0	48.8	
3-4	.0	11.9	19.0	.0	.0	.0	31.0	
5-6	.0	.0	3.6	2.4	.0	.0	6.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.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	63.1	27.4	2.4	.0	.0	100.0	84

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.0	16.8	22.7	9.2	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	66	3
6-7	.0	9.2	6.7	3.4	3.4	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	4
8-9	.0	.0	1.7	1.7	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	5
10-11	.0	.0	.8	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	4
12-13	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	4.2	4.2	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	2
TOTAL	11	36	42	20	6	3	1	0	0	0	0	0	0	0	0	0	0	0	0	119	3
PCT	9.2	30.3	35.3	16.8	5.0	2.5	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

ANNUAL

PERIOD: (PRIMARY) 1960-1973
(OVER-ALL) 1955-1973

AREA 0008 WEST BORNEO
.5N 107.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	4.9	.9	1.1	.0	.0	.0	.0	6.9	5.6	2.1	.2	.0	.1	.1		85.0
NE	4.9	1.0	1.4	.0	.0	.0	.0	7.3	1.9	8.1	.1	.0	.0	.1		74.3
E	5.2	.3	1.2	.0	.0	.0	.0	6.7	1.9	.8	.9	.0	.2	.0		89.6
SE	5.9	1.2	.4	.0	.0	.0	.0	7.5	.7	1.4	.1	.0	1.0	.0		89.3
S	2.9	2.4	1.3	.0	.0	.0	.0	6.5	2.5	2.1	.1	.0	.4	.0		88.9
SW	6.3	2.7	.3	.0	.0	.0	.0	9.3	7.6	4.0	.0	.0	.5	.0		79.0
W	9.3	3.1	1.9	.0	.0	.0	.0	14.3	4.2	2.8	.5	.0	.5	.0		77.7
NW	9.2	1.5	3.0	.0	.0	.0	.0	13.8	5.0	1.2	*	.0	.1	.0		79.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		8.3
CALM	.8	3.7	.0	.0	.0	.0	.0	4.5	1.3	9.8	.4	.0	.8	.0		83.2
TOT PCT	3.9	1.6	1.0	.0	.0	.0	.0	6.5	2.6	2.6	.3	.0	.6	.1		87.4
TOT OBS:	3625															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	4.2	2.1	.8	.0	.0	.0	.0	7.1	2.8	.5	.2	.0	.6	.1		88.7
06609	3.3	2.0	1.0	.0	.0	.0	.0	6.3	2.8	.1	.3	.0	.3	.1		90.2
12615	3.6	.7	1.0	.0	.0	.0	.0	5.3	2.3	2.9	.2	.0	.9	.0		88.2
18621	5.4	1.5	1.3	.0	.0	.0	.0	8.1	2.2	7.6	.4	.0	.7	.1		81.2
TOT PCT	4.1	1.6	1.0	.0	.0	.0	.0	6.6	2.6	2.7	.3	.0	.6	.1		87.3
TOT OBS:	3723															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.8	8.9	3.7	.2	.0	.0		14.6	6.5	15.6	17.0	14.8	16.0	14.7	17.3	13.2	14.3
NE	1.7	7.2	2.4	.1	.0	.0		11.3	6.9	12.0	18.3	12.1	11.2	10.1	18.5	10.1	11.7
E	5.2	4.1	.7	*	.0	.0		6.0	6.5	7.1	10.5	7.1	4.1	4.3	4.8	5.5	6.4
SE	5.6	9.1	3.2	.1	.0	.0		14.0	7.1	16.9	17.8	16.8	13.5	11.3	13.8	11.5	13.1
S	2.5	12.3	3.4	.1	.0	.0		18.3	6.8	17.5	14.0	17.0	18.7	20.2	19.3	18.8	17.6
SW	1.7	7.7	1.9	.1	.0	.0		11.1	7.1	9.8	9.3	9.7	12.7	13.1	9.7	12.4	10.4
W	1.4	4.1	1.0	.1	*	.0		6.6	7.4	5.8	3.9	6.1	8.7	8.1	6.0	6.9	5.7
NW	1.4	5.7	1.9	.1	*	.0		8.6	7.0	8.9	5.9	8.1	9.3	10.0	6.6	9.4	8.3
VAR	*	.0	.0	.0	.0	.0		*	.1	.1	.0	*	.0	.1	.0	.0	.0
CALM	9.0							9.0	.0	8.4	4.0	7.5	7.8	8.2	3.9	12.3	12.4
TOT OBS							11798		7.1	1755	360	2654	1448	1828	301	1812	1610
TOT PCT	22.0	59.1	17.7	.9	*	.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	7.4	1.2	*	.0		14.6	6.5	14.2	15.2	15.4	13.8
NE	5.4	5.8	.6	*	.0		11.8	6.3	13.3	11.9	11.8	10.8
E	3.7	2.2	.2	.0	.0		6.0	6.5	7.6	6.0	4.4	5.9
SE	5.8	7.6	.7	*	.0		14.0	7.1	17.0	15.1	11.4	12.3
S	8.2	9.5	.6	*	.0		18.3	6.8	17.1	18.1	20.1	18.2
SW	5.9	4.7	.5	*	.0		11.1	7.1	9.7	10.7	12.6	11.4
W	3.6	2.4	.4	.1	.0		6.6	7.4	5.5	7.0	7.7	6.3
NW	4.5	3.7	.4	.1	.0		8.6	7.0	8.0	8.5	9.1	8.9
VAR	*	.0	.0	.0	.0		*	.1	*	*	*	.0
CALM	9.0						9.0	.0	7.6	7.5	7.5	12.5
TOT OBS						11798		7.1	2145	4102	2129	3422
TOT PCT	52.3	43.1	4.5	.2	.0		100.0		100.0	100.0	100.0	100.0

ANNUAL

PERIOD: (PRIMARY) 1904-1973
(OVER-ALL) 1855-1973

AREA OOOH WEST BORNEO
.5N 107.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00603	7.6	14.5	59.1	17.9	.8	.6	.0	7.1	100.0	2145
06609	7.5	12.8	57.9	20.5	1.4	*	.0	7.6	100.0	4102
12615	7.5	13.1	60.0	18.9	.5	.0	.0	7.2	100.0	2129
18621	12.5	13.2	60.1	13.6	.6	*	.0	6.4	100.0	3422
TOT								7.1		11798
PCT	9.0	13.3	59.1	17.7	.9	*	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.9	2.8	7.6	3.8		5.4
NE	1.2	2.7	6.5	3.1		5.1
E	1.0	1.1	2.7	1.4		5.2
SE	2.5	3.2	5.7	7.3		4.6
S	2.5	3.6	7.0	4.6		5.3
SW	.9	1.4	4.7	3.5		6.2
W	.6	1.0	3.3	2.8		6.1
NW	.8	.9	4.1	2.1		5.6
VAR	.0	.1	.1	.0		.3
CALM	1.0	1.5	2.9	1.1		5.1
TOT OBS					1992	5.5
TOT PCT	12.9	18.3	43.9	24.9	100.0	

TABLE 6

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

	000 149	150 299	300 499	500 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	N <5/8 ANY HGT	TOTAL OBS
N	.1	.0	.2	1.3	2.5	.9	.7	.0	*	*	10.8	
NE	*	.0	.2	.9	2.3	.6	.5	.1	*	.1	8.4	
E	.1	.0	*	.3	.5	.3	.1	.0	.1	.2	4.4	
SE	.0	.1	.1	.9	2.3	.4	.2	.3	*	.1	10.3	
S	.0	.0	.2	1.5	2.1	.7	.3	*	*	*	12.8	
SW	*	*	.1	.3	1.7	.5	.3	.2	.3	.0	6.8	
W	.2	*	.1	.9	1.2	.6	.1	.1	.0	.1	4.5	
NW	*	.0	*	.6	.8	.6	.2	*	.2	.1	3.3	
VAR	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
CALM	.0	*	.1	.6	.3	.1	.0	.1	.0	.1	4.7	
TOT OBS												1952
TOT PCT	.4	.2	1.1	7.8	13.1	4.8	2.5	.8	.3	.6	68.4	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	.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0
* OR >5000	1.4	1.7	1.7	1.7	1.7	1.7	1.7	1.7
* OR >3500	3.3	4.1	4.1	4.1	4.1	4.1	4.1	4.1
* OR >2000	8.9	8.7	8.9	8.9	8.9	8.9	8.9	8.9
* OR >1000	16.8	20.9	21.8	21.[illegible]	21.9	21.9	21.9	21.9
* OR >600	22.1	27.3	29.3	29.5	29.7	29.7	29.7	29.7
* OR >300	22.8	28.7	30.3	30.7	30.8	30.8	30.8	30.8
* OR >150	22.9	28.9	30.4	30.8	31.0	31.0	31.0	31.0
* OR > 0	22.9	28.9	30.6	31.0	31.2	31.2	31.3	31.3

TOTAL NUMBER OF OBS: 2008 PCT FREQ NH <5/8: 68.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
3.2	12.5	22.9	17.1	12.3	8.8	6.8	6.0	10.2	.3	2242

ANNUAL

PERIOD: (PRIMARY) 1906-1973
(OVER-ALL) 1858-1973

AREA 0008 WEST BORNEO
.5N 107.4E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	*	.0	.0	.0	.0	*	.0	.0	.0	.1	
	NO PCP	*	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
	TOT %	*	*	.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	.2	
	TOT %	*	*	*	.1	*	.1	.0	.0	.0	.0	.3	
1<2	PCP	.1	.1	.0	.1	.1	*	.1	.1	.0	.0	.6	
	NO PCP	*	*	*	.2	.0	.0	.1	*	.0	.0	.4	
	TOT %	.0	.2	*	.2	.1	*	.2	.1	.0	.0	1.1	
2<5	PCP	.1	.3	.0	.1	*	.1	.1	.1	.0	*	1.0	
	NO PCP	.3	.3	.1	.2	.3	.1	.1	.1	.0	.1	1.5	
	TOT %	.4	.5	.1	.3	.3	.2	.2	.2	.0	.1	2.5	
5<10	PCP	.5	.3	.2	.1	.2	.3	.2	.2	.0	.1	2.1	
	NO PCP	3.1	2.4	.7	2.2	2.3	1.3	1.2	1.3	.0	.4	15.0	
	TOT %	3.4	2.4	.9	2.3	2.5	1.4	1.4	1.4	.0	.5	17.1	
10+	PCP	.4	.5	.1	.2	.5	.4	.4	.1	.0	*	2.6	
	NO PCP	12.8	11.2	5.0	11.5	13.9	8.4	4.5	5.3	.1	4.0	76.4	
	TOT %	13.0	11.4	5.1	11.8	14.4	8.8	5.0	5.5	.1	4.0	79.0	
	TOT OBS												5018
	TOT PCT	17.1	15.0	6.2	14.7	17.4	10.7	6.9	7.2	.1	4.7	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	*	.1	*	*	*	*	*	*	.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<1	0-3	*	.0	*	.0	*	*	*	.0	.0	.0	.1	
	4-10	.0	*	.0	.0	*	*	.0	.0	.0		*	
	11-21	.0	*	.0	*	*	*	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	*	*	*	.1	*	.0	.0	.0	.2	
1<2	0-3	*	*	*	.0	.0	*	*	.0	.0	.1	.2	
	4-10	.1	*	*	.1	.1	.2	.1	.1	.0		.5	
	11-21	*	*	.0	*	*	*	.1	*	.0		.2	
	22+	*	*	.0	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.1	.1	*	.2	.1	.1	.2	.1	.0	.1	1.0	
2<5	0-3	*	*	*	*	.1	*	*	*	.0	.1	.4	
	4-10	.2	.3	.1	.3	.2	.2	.1	.1	.0		1.6	
	11-21	.3	.2	*	*	.1	*	.1	.1	.0		.6	
	22+	*	*	.0	.0	.0	*	*	.0	.0		.4	
	TOT %	.5	.6	.2	.3	.3	.3	.2	.2	.0	.1	2.7	
5<10	0-3	.1	.1	.1	.2	.1	.2	.1	.1	.0	.7	1.7	
	4-10	1.3	1.1	.4	.9	1.1	.9	.7	.8	.0		7.2	
	11-21	1.0	.7	.1	.4	.5	.4	.4	.2	.0		3.2	
	22+	.1	*	.0	*	*	*	.0	.0	.0		.2	
	TOT %	2.4	1.9	.6	1.5	1.8	1.3	1.0	1.2	.0	.7	14.4	
10+	0-3	1.4	1.6	.9	1.1	1.8	1.2	1.2	1.2	.1	7.9	18.2	
	4-10	8.4	6.6	3.5	8.2	10.6	6.2	3.3	4.5	.0		51.4	
	11-21	2.8	2.2	.5	2.7	2.8	1.2	.6	.7	.0		13.5	
	22+	*	*	.0	*	.1	.1	*	*	.0		.3	
	TOT %	12.6	10.5	4.9	12.0	15.2	8.6	5.2	6.6	*	7.8	83.4	
	TOT OBS												6095
	TOT PCT	15.8	13.2	5.8	14.1	17.5	10.4	6.6	8.1	*	8.6	100.0	

ANNUAL

PERIOD: (PRIMARY) 1906-1973
(OVER-ALL) 1855-1973

AREA 0008 WEST BORNEO
.5N 107.4E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00603	.2	.1	1.5	6.7	14.1	3.9	2.0	.8	.8	.4	30.7	69.3	368
06609	.2	.4	1.1	6.5	8.8	5.6	4.3	.6	.2	.5	28.1	71.9	573
12615	.2	.0	1.4	8.9	11.8	4.1	.6	.7	.0	.1	27.9	72.1	314
18621	.8	.0	.2	6.7	14.1	3.9	1.9	.6	.2	1.2	29.6	70.4	498
TOT													2153
PCT	.3	.1	1.1	7.1	12.1	4.5	2.3	.7	.3	.6	29.1	70.9	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
00603	.4	.2	1.2	2.1	10.9	85.1	1499
06609	.4	.3	1.1	1.9	10.7	85.7	2006
12615	.2	.1	1.2	3.7	14.4	80.3	1463
18621	.3	.2	.8	3.2	13.9	81.6	2129
TOT							7097
PCT	.3	.2	1.1	2.7	12.5	83.2	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+ AND>5	NH <5/8 AND 5+	TOTAL OBS
00603	.2	2.5	9.9	22.8	67.3	536
06609	.3	1.8	10.6	20.1	69.3	540
12615	.2	2.0	13.2	17.3	69.3	476
18621	.6	.8	10.4	22.6	66.9	496
TOT						2008
PCT	.3	1.8	10.9	20.9	66.2	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		.1
90/94	.0	.0	.0	.1	.5	.1	.0	.0		.7
85/89	.0	.0	.0	.1	1.4	7.1	2.7	.3		11.8
80/84	.0	.0	.0	.0	1.4	27.4	39.9	6.5		75.3
75/79	.0	.0	.0	.0	*	1.0	5.8	5.3		12.0
70/74	.0	.0	.0	.0	.0	.0	.0	.1		.1
TOTAL									1965	100.0
PCT	.0	.0	.0	.3	3.6	35.5	46.4	12.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.1	*	.0	.0	.0	.0	.0
	.1	.1	.1	.1	.2	.0	.0	.1	.0	.0
	1.3	.9	1.1	2.0	2.6	1.2	.7	.4	.0	.9
	11.6	9.2	4.7	11.4	13.2	8.9	5.2	6.3	.1	4.6
	3.1	2.5	.5	.7	.8	1.5	1.4	1.0	.0	.5
	.1	.0	.0	.0	.0	.0	*	.0	.0	.0
	16.3	12.6	6.4	14.9	16.9	11.6	7.3	7.8	.1	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
00603	96	88	85	82	78	76	69	81.7	2134
06609	97	91	88	83	78	75	72	83.0	4081
12615	91	86	85	82	79	76	69	81.7	2106
18621	89	84	83	82	78	76	72	81.1	3408
TOT	97	89	86	82	78	75	69	82.0	11729

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	.0	1.4	30.6	52.8	15.2	83	512
06609	.0	1.1	9.2	45.2	35.5	9.0	79	524
12615	.0	.0	2.4	35.2	53.4	8.9	81	492
18621	.0	.0	.8	29.4	54.1	15.7	83	506
TOT	0	.6	3.1	37.7	49.2	24.8	81	2034

ANNUAL

PERIOD: (PRIMARY) 1968-1973
(OVER-ALL) 1955-1973

AREA 0008 WEST BORNEO
.5N 107.4E

TABLE 17

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

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	* FOG	NO FOG
14/16	.0	.0	.0	.0	.0	*	.0	1	.0	*
11/13	.0	.0	.0	.0	*	.1	.0	6	.0	.2
9/10	.0	.0	.0	*	*	.0	.1	7	.0	.2
7/8	.0	.0	.0	.3	.1	.1	*	19	.0	.6
5	.0	.0	.0	.1	.1	.2	*	13	.0	.4
4	.0	.0	.1	.4	.4	.2	*	40	.0	1.2
3	.0	.0	.1	.9	1.1	.5	.0	81	.0	2.3
2	.0	.0	*	.4	.0	.2	.0	55	.0	1.5
1	.0	.0	.3	4.6	2.3	.1	.0	258	.0	7.4
0	.0	.0	.3	4.6	2.1	.0	.0	232	*	6.9
	.0	.2	2.9	16.0	1.6	.0	.0	743	.1	20.9
-1	.0	*	4.4	15.7	1.4	.0	.0	445	.0	13.5
-2	.0	.4	4.1	14.9	.6	.0	.0	722	.0	21.0
-3	.0	.1	1.7	4.5	.3	*	.0	249	.0	7.6
-4	.0	.3	3.8	5.2	.1	.0	.0	320	.1	9.3
-5	.0	.4	1.9	1.5	.1	.0	.0	119	*	3.6
-6	*	.1	.7	.4	*	.0	.0	43	.0	1.3
-7/-8	*	.2	.9	.3	.0	.0	.0	44	*	1.4
-9/-10	.0	.1	.2	.1	.0	.0	.0	11	.0	.4
-11/-13	.0	.1	*	*	.0	.0	.0	4	.0	.1
TOTAL								3412		
PCT	*	1.8	16.6	66.7	11.3	1.2	.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	.5	1.6	.2	.0	.0	.0	1.8
1-2	.4	6.9	1.0	.0	.0	.0	9.3
3-4	.2	2.6	3.0	.1	.0	.0	5.8
5-6	.0	.1	.6	.1	.0	.0	.8
7	.0	.1	.1	.0	.0	.0	.2
8-9	.0	.1	.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	10.8	5.1	.2	.0	.0	17.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.8	.1	.0	.0	.0	1.5
1-2	.4	4.6	1.2	.0	.0	.0	6.6
3-4	.0	1.6	2.1	.0	.0	.0	3.8
5-6	.0	*	.4	.1	.0	.0	.6
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	7.0	4.1	.1	.0	.0	12.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.0	.0	.0	.0	.0	1.3
1-2	.3	2.3	.5	.0	.0	.0	3.1
3-4	.0	1.0	.4	.0	.0	.0	1.4
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	4.3	1.0	.0	.0	.0	5.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.5	.1	.0	.0	.0	2.3
1-2	.3	5.4	.9	.0	.0	.0	6.8
3-4	.0	2.4	2.9	.2	.0	.0	5.5
5-6	.0	.2	.6	.1	.0	.0	.9
7	.0	.0	.1	*	.0	.0	.2
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	9.7	4.7	.3	.0	.0	15.7

PERIOD: (OVER-ALL) 1963-1973

ANNUAL

TABLE 18 (CONT)

AREA 0009 WEST BORNEO .5N 107.4E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.9	.1	.0	.0	.0	1.2	.7	.7	.0	.0	.0	.0	1.0
1-2	.5	5.7	2.0	.0	.0	.0	8.2	.9	4.5	.7	.0	.0	.0	5.3
3-4	.0	3.3	2.3	.2	.0	.0	5.8	.0	1.9	1.0	.2	.0	.0	3.1
5-6	.0	.6	.5	.0	.0	.0	1.2	.0	.2	.4	.0	.0	.0	.5
7	.0	.0	.2	.1	.0	.0	.2	.0	.0	.0	*	.0	.0	*
8-9	.0	.0	.2	.0	.0	.0	.2	.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	10.5	5.3	.2	.0	.0	16.8	.4	7.3	2.1	.2	.0	.0	10.0

	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	.5	.6	.0	.0	.0	.0	1.1	.1	.8	.0	.0	.0	.0	1.0	
1-2	.5	2.6	.3	.0	.0	.0	3.4	.8	3.3	.6	.0	.0	.0	4.8	
3-4	.0	.2	.5	.1	.0	.0	.8	.1	.5	.8	*	.0	.0	1.7	
5-6	.0	.1	.4	.0	.0	.0	.4	.0	.3	.2	.1	.0	.0	.6	
7	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.0	3.5	1.2	.2	.0	.0	5.8	1.1	5.2	1.9	.1	.0	.0	8.2	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	12.3	7.5	.0	.0	.0	.0	20.4	
1-2	3.9	34.8	7.3	.0	.0	.0	46.0	
3-4	.3	13.5	12.8	.7	.0	.0	27.2	
5-6	.0	1.5	3.1	.4	.0	.0	5.0	
7	.0	.1	.5	.2	.0	.0	.7	
8-9	.0	.1	.5	.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	
								1022
TOT PCT	16.5	57.5	24.8	1.8	.2	.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	8.1	31.3	20.8	5.3	.7	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1126	2
6-7	.0	4.6	5.4	3.3	1.3	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	225	4
8-9	.0	.5	1.3	.8	.6	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	66	5
10-11	.0	.5	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	3
12-13	.0	.0	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	6
>13	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
INDET	10.7	2.4	1.1	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	249	1
TOTAL																				1693	2
PCT	18.8	37.4	29.0	10.0	3.0	1.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1906-1973
(OVER-ALL) 1859-1973

AREA 0008 WEST BOWMED
.5N 107.4E

TABLE 20

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

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	1	*
91/92	.0	.0	.1	.2	.2	.1	.0	.0	.0	.0	.0	.0	6	.1
89/90	.0	.0	.2	1.1	1.0	1.7	.6	.0	.2	.3	.1	.0	43	.4
87/88	.1	.1	1.5	4.6	7.6	6.7	1.5	.4	.3	1.7	1.1	.2	229	2.0
85/86	1.0	.8	9.9	23.3	32.3	29.4	13.1	8.8	6.0	13.7	12.5	4.8	1365	12.1
83/84	9.0	12.4	31.2	41.2	45.9	45.1	47.9	36.4	41.9	46.0	45.2	26.4	3956	35.2
81/82	40.1	48.7	41.3	21.9	12.2	12.6	21.8	45.2	45.3	32.0	39.1	49.5	4057	36.1
79/80	31.0	28.6	16.6	6.1	.6	2.2	4.2	7.8	6.2	4.7	4.0	16.6	1249	11.1
77/78	6.8	6.1	2.5	1.2	.6	.7	1.2	.9	1.5	1.3	1.6	1.8	249	2.2
75/76	1.1	2.4	.7	.2	1.1	.1	.0	.3	.5	.2	.3	.7	73	.6
73/74	.3	.6	.0	.1	.1	.0	.0	.1	.1	.0	.1	.1	15	.1
71/72	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	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	1014	959	979	823	841	875	967	920	1014	983	1022	1007	11268	100.0
MEAN	80.8	80.7	82.0	83.4	84.1	84.0	83.0	82.4	82.4	82.9	82.8	81.7	82.5	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1011	1010	1011	1009	1010	1010	1011	1010	1010	425
FEB	1010	1010	1010	1009	1009	1010	1010	1009	1010	388
MAR	1010	1010	1009	1008	1009	1010	1010	1009	1010	424
APR	1009	1010	1009	1008	1008	1008	1009	1008	1009	267
MAY	1010	1009	1009	1008	1008	1009	1009	1008	1009	293
JUN	1010	1010	1009	1009	1009	1010	1009	1008	1009	289
JUL	1010	1011	1009	1009	1008	1010	1009	1010	1009	277
AUG	1010	1010	1010	1009	1009	1009	1010	1009	1009	296
SEP	1010	1010	1010	1008	1009	1009	1009	1008	1009	258
OCT	1011	1010	1009	1008	1010	1010	1010	1009	1010	293
NOV	1010	1010	1009	1008	1009	1009	1010	1008	1009	375
DEC	1011	1010	1010	1009	1010	1010	1009	1010	1010	320
ANN	1010	1010	1010	1009	1009	1010	1010	1009	1009	3905
OBS	982	280	981	307	591	262	588	334		

PERCENTILES

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

JANUARY

PERIOD: (PRIMARY) 1918-1973
(OVER-ALL) 1859-1973

AREA 0009 KATIMATA STRAIT
1.9S 108.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	1.6	1.1	.0	.0	.0	.0	.0	2.7	1.6	3.2	.0	.0	.0	.0		92.4
NE	.0	4.8	.0	.0	.0	.0	.0	4.8	9.5	2.4	9.5	.0	.0	.0		73.8
E	.0	8.3	.0	.0	.0	.0	.0	8.3	.0	16.7	.0	.0	.0	.0		75.0
SE	.0	.0	10.3	.0	.0	.0	.0	10.3	10.3	.0	.0	.0	.0	.0		79.5
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
SW	14.3	.0	.0	.0	.0	.0	.0	14.3	14.3	.0	.0	.0	.0	.0		71.4
W	1.7	5.9	.0	.0	.0	.0	.0	8.6	12.0	6.8	.0	.0	.0	.0		73.1
NW	4.7	3.8	.9	.0	.0	.0	.0	9.4	3.4	3.0	2.6	.0	.0	.0		81.8
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	6.3	.0	.0	.0	.0		91.7
TOT PCT	3.1	3.5	.8	.0	.0	.0	.0	7.4	5.0	3.9	1.6	.0	.0	.0		82.2
TOT OBS:	258															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00600	.0	4.9	.0	.0	.0	.0	.0	4.9	13.1	3.3	.0	.0	.0	.0		78.7
06606	5.4	6.8	1.4	.0	.0	.0	.0	13.5	4.1	.0	2.7	.0	.0	.0		79.7
12615	3.1	1.5	1.5	.0	.0	.0	.0	6.2	1.5	3.1	1.5	.0	.0	.0		87.7
18621	3.0	1.5	3.0	.0	.0	.0	.0	7.5	1.5	9.0	1.5	.0	.0	.0		80.6
TOT PCT	3.0	3.7	1.5	.0	.0	.0	.0	8.2	4.9	3.7	1.5	.0	.0	.0		81.6
TOT OBS:	267															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	10.1	5.7	.4	.0	.0		17.6	9.3	18.1	21.4	21.9	12.3	21.5	34.4	12.5	14.1
NE	.3	1.8	.5	.1	.0	.0		2.7	7.7	4.6	.0	3.6	1.9	2.0	.0	2.9	.0
E	.3	.5	.2	.0	.0	.0		1.0	5.9	.9	.0	1.1	1.2	.5	.0	1.8	.0
SE	.5	1.2	.0	.0	.0	.0		1.7	5.1	1.3	.0	1.5	3.7	.2	17.5	2.6	.7
S	.3	1.9	.2	.2	.0	.0		2.6	7.0	2.2	.0	1.3	2.5	3.3	6.3	2.2	4.9
SW	.9	2.6	.7	.0	.0	.0		4.1	6.9	2.2	21.4	4.3	8.0	1.4	18.8	3.1	3.5
W	1.3	11.4	4.9	.3	.0	.0		18.4	8.9	17.9	42.9	12.9	19.5	17.2	12.5	21.9	25.4
NW	2.3	29.0	13.7	.5	.0	.0		45.4	9.1	48.2	14.3	45.0	45.1	46.9	15.6	43.4	44.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.4							6.4	.0	4.4	.0	7.3	3.7	6.6	.0	9.6	7.0
TOT OBS	94	322	169	9	0	0	653		8.2	113	7	137	81	122	8	114	71
TOT PCT	14.4	59.5	25.7	1.4	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	5.3	11.3	1.0	.1	.0		17.6	9.3	18.3	18.3	22.3	13.1
NE	1.5	1.1	.1	.0	.0		2.7	7.7	4.4	3.0	1.9	1.8
E	.7	.3	.0	.0	.0		1.0	5.9	.8	1.1	.8	1.1
SE	1.2	.5	.0	.0	.0		1.7	5.1	1.3	2.3	1.0	1.9
S	1.7	.7	.2	.0	.0		2.6	7.0	2.1	1.7	3.5	3.2
SW	2.3	1.6	.2	.0	.0		4.1	6.9	3.3	6.3	2.5	3.2
W	6.2	10.5	1.6	.0	.0		18.4	8.9	19.4	14.6	16.9	23.2
NW	12.8	30.9	1.6	.1	.0		45.4	9.1	46.3	48.7	45.0	43.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	6.6						6.4	.0	4.2	6.0	6.2	8.6
TOT OBS	250	372	30	1	0	653		8.2	120	218	130	185
TOT PCT	38.3	57.0	4.6	.2	.0		100.0		100.0	100.0	100.0	100.0

JANUARY

PERIOD: (PRIMARY) 1918-1973
(OVER-ALL) 1859-1973

AREA 0009 KARIMATA STRAIT
1.95 108.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
				WIND SPEED (KNOTS)						
00&03	4.2	10.8	60.8	24.2	.0	.0	.0	7.7	100.0	120
06&09	6.0	8.7	60.1	22.5	2.8	.0	.0	6.4	100.0	218
12&15	6.2	5.4	55.4	33.1	.0	.0	.0	6.5	100.0	130
18&21	6.6	7.0	57.3	25.4	1.6	.0	.0	6.2	100.0	185
TOT	42	52	382	168	9	0	0	6.2		653
PCT	6.4	8.0	58.5	25.7	1.4	.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	3.0	1.7	9.3	3.0		5.3
NE	1.4	1.2	.0	.0		3.4
E	.0	1.2	.0	1.2		5.7
SE	.6	.8	.6	.6		4.4
S	.0	.5	1.1	.0		5.5
SW	.0	.0	.8	.6		6.8
W	.6	1.8	5.5	8.4		6.5
NW	4.1	7.5	20.0	15.4		5.8
VAR	.0	.0	.0	.0		.0
CALM	.6	1.2	4.9	1.2		5.6
TOT OBS	17	26	71	56	164	5.7
TOT PCT	10.4	15.9	43.3	30.5	100.0	

TABLE 6

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

WND DIR	000-149	150-299	300-599	600-999	1000-1999	2000-3499	3500-4999	5000-6499	6500-7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	1.1	1.4	.0	.0	.0	.0	.0	14.6	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	
E	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	1.8	
SE	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	1.4	
S	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.9	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	
W	.0	.0	.0	1.7	3.4	.6	.3	.0	.0	.0	10.4	
NW	.0	.0	1.2	4.0	8.7	1.2	.3	.0	.0	.0	32.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.6	.0	1.2	.0	.6	.0	.0	.0	4.9	
TOT OBS	0	0	4	12	26	2	2	0	0	0	117	164
TOT PCT	.0	.0	2.4	7.3	15.9	1.2	1.2	.0	.0	.0	71.3	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	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
* OR >2000	2.4	3.0	3.0	3.0	3.0	3.0	3.0	3.0
* OR >1000	14.9	17.9	18.5	19.0	19.0	19.0	19.0	19.0
* OR >500	20.2	25.0	25.6	26.2	26.8	26.8	26.8	26.8
* OR >300	22.0	27.4	28.0	28.6	29.2	29.2	29.2	29.2
* OR >150	22.0	27.4	28.0	28.6	29.2	29.2	29.2	29.2
* OR > 0	22.0	27.4	28.0	28.6	29.2	29.2	29.2	29.2
TOTAL	37	46	47	48	49	49	49	49

TOTAL NUMBER OF OBS: 164 PCT FREQ NH <5/8: 70.8

TABLE 7B

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
9.6	12.2	25.4	19.3	12.2	9.9	7.7	2.8	7.7	.0	181

JANUARY

PERIOD: (PRIMARY) 1918-1973
(OVER-ALL) 1859-1973

AREA 0009 KARIMATA STRAIT
1.9S 108.0E

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
	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	.4	.4	.0	.0	.8	
1/2<1	NO PCP	.0	.4	.0	.0	.0	.0	.0	1.2	.0	.0	1.6	
	TOT %	.0	.4	.0	.0	.0	.0	.4	1.6	.0	.0	2.3	
	PCP	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4	
	PCP	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4	
2<5	NO PCP	.8	.0	.0	.0	.4	.0	.0	.5	.0	.0	1.2	
	TOT %	.8	.0	.0	.0	.4	.0	.0	.9	.0	.0	1.6	
	PCP	.0	.0	.0	.0	.0	.0	.7	1.6	.0	.0	2.3	
5<10	NO PCP	3.0	.2	.0	.3	.5	.4	9.7	6.9	.0	.0	14.0	
	TOT %	3.0	.2	.0	.3	.5	.4	9.4	8.5	.0	.0	16.3	
	PCP	.8	.2	.2	.4	.0	.4	.4	1.5	.0	.0	3.5	
10+	NO PCP	14.1	3.3	2.1	3.1	1.4	1.9	12.8	32.6	.0	4.7	76.0	
	TOT %	14.9	3.5	2.3	3.5	1.4	2.3	13.2	34.0	.0	4.7	79.5	
	TOT OBS												258
	TOT PCT	17.9	4.1	2.3	3.8	2.2	2.7	17.0	45.3	.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	.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	.2	.0	.0	.0	.0	.2	1.0	.0		1.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	.0	.0	.0	.0	.2	1.0	.0	.0	1.4	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.5	.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	.0	.5	.0	.0	.5	
	0-3	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
2<5	4-10	.4	.0	.0	.0	.2	.0	.1	.7	.0		1.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.4	.0	.0	.0	.2	.2	.1	.7	.0	.0	1.7	
	0-3	.4	.1	.0	.1	.1	.0	.2	.2	.0	.2	1.4	
5<10	4-10	.6	.0	.0	.1	.2	.4	1.3	4.4	.0		7.0	
	11-21	2.1	.0	.0	.0	.0	.2	.8	2.2	.0		5.3	
	22+	.0	.0	.0	.0	.0	.0	.2	.0	.0		.2	
	TOT %	3.1	.1	.0	.2	.3	.6	2.6	6.9	.0	.2	13.9	
	0-3	.8	.0	.5	.7	.0	.8	1.7	1.4	.0	6.5	12.5	
10+	4-10	10.0	2.1	.8	1.4	.8	1.7	8.8	25.1	.0		50.7	
	11-21	5.0	.5	.2	.0	.2	.4	2.3	10.3	.0		19.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.2	.0		.2	
	TOT %	15.8	2.6	1.6	2.2	1.0	3.0	12.9	37.0	.0	6.5	82.5	
	TOT OBS												416
	TOT PCT	19.3	3.0	1.6	2.3	1.5	3.8	15.8	45.9	.0	6.7	100.0	

JANUARY

PERIOD: (PRIMARY) 1918-1973
(SECN-ALL) 1859-1973

AREA 0009 KARIMATA STRAIT
1.9S 108.0E

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	4.4	11.1	13.3	2.2	2.2	.0	.0	.0	33.3	66.7	45
06E09	.0	.0	2.2	13.3	13.3	.0	2.2	.0	.0	.0	31.1	68.9	45
12E15	.0	.0	.0	.0	17.8	.0	.0	.0	.0	.0	17.8	82.2	45
18E21	.0	.0	2.3	4.5	15.9	4.5	.0	.0	.0	.0	27.3	72.7	44
TOT	0	0	4	13	27	3	2	0	0	0	49	130	179
PCT	.0	.0	2.2	7.3	15.1	1.7	1.1	.0	.0	.0	27.4	72.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.0	.0	.0	1.1	15.2	83.7	92
06E09	.0	2.3	.8	.8	14.7	81.4	129
12E15	.0	1.2	2.3	3.5	17.4	75.6	86
18E21	.0	1.7	.0	1.7	10.2	86.4	118
TOT	0	6	3	7	60	349	425
PCT	.0	1.4	.7	1.6	14.1	82.1	100.0

TABLE 12

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

HOUR (GMT)	<150 <500YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	4.7	16.3	18.6	65.1	43
06E09	.0	4.9	19.5	14.6	65.9	41
12E15	.0	.0	.0	19.5	80.5	41
18E21	.0	2.3	9.3	18.6	72.1	43
TOT	0	5	19	30	119	168
PCT	.0	3.0	11.3	17.9	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
85/89	.0	.0	.0	.0	.6	2.9	.6	.0	7	4.0
80/84	.0	.0	.0	.0	.6	25.9	46.0	2.9	131	75.3
75/79	.0	.0	.0	.0	.0	3.4	13.2	4.0	36	20.7
TOTAL	0	0	0	0	2	56	104	12	174	100.0
PCT	.0	.0	.0	.0	1.1	32.2	59.8	6.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	.0	.0	.9	2.6	.0	.6
	12.2	2.6	1.7	2.7	1.1	.7	11.9	35.9	.0	6.3
	4.5	.7	.0	1.1	.6	.0	4.2	9.6	.0	.0
TOTAL										
PCT	16.7	3.3	1.7	3.9	1.7	.7	17.0	48.1	.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	91	88	84	81	77	76	75	80.8	119
06E09	91	89	85	82	77	75	73	81.6	217
12E15	90	8[illegible]	84	81	78	76	76	81.1	133
18E21	87	8[illegible]	83	80	77	76	75	80.3	186
TOT	91	87	85	81	77	76	73	81.0	655

TABLE 16

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	21.4	66.7	9.5	83	42
06E09	.0	.0	2.2	37.0	56.5	4.3	80	46
12E15	.0	.0	.0	47.7	45.5	6.8	81	44
18E21	.0	.0	.0	21.7	69.6	8.7	83	46
TOT	0	0	2	57	106	13	82	178

JANUARY

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

AREA 0009 KARIMATA STRAIT
1.9S 108.0E

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	NO FOG
7/8	.0	.0	.0	.0	.8	2	.0	.8
6	.0	.0	.0	.0	.4	1	.0	.4
5	.0	.0	.4	.0	.4	2	.0	.8
4	.0	.0	.8	.8	.0	4	.0	1.6
3	.0	.0	2.1	1.6	.0	9	.0	3.7
2	.0	.0	8.2	1.6	.0	24	.8	9.1
1	.0	.8	8.6	1.2	.0	26	.4	10.3
0	.0	7.4	19.8	.0	.0	66	.4	26.7
-1	.0	5.8	12.2	.0	.0	44	.0	18.1
-2	.0	3.7	7.4	.0	.0	27	.0	11.1
-3	.0	5.8	1.2	.0	.0	17	.0	7.0
-4	.4	2.1	1.6	.0	.0	10	.0	4.1
-5	.0	.8	.8	.0	.0	4	.0	1.6
-6	.4	1.2	.0	.0	.0	4	.0	1.6
-7/-8	.0	.8	.4	.0	.0	3	.0	1.2
TOTAL	2	69	155	13	4	243	4	239
PCT	.8	28.4	63.8	5.3	1.6	100.0	1.6	98.4

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	.6	.0	.0	.0	.0	1.4
1-2	.0	4.6	2.0	.0	.0	.0	6.6
3-4	.0	1.6	4.0	.0	.0	.0	5.6
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	.8	6.8	8.4	.0	.0	.0	16.0

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	1.0	.0	.0	.0	.0	1.0
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	1.0	1.6	.0	.0	.0	2.6

E

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

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.8	.0	.0	.0	.0	.8
3-4	.0	1.0	.0	.0	.0	.0	1.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.8	.0	.0	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.6	.0	.0	.0	.0	2.6

PERIOD: (OVER-ALL) 1963-1973

JANUARY

TABLE 18 (CONT)

AREA 0009 KARIMATA STRAIT
1.9S 108.0E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.4	.0	.0	.0	.0	1.4	.0	.2	.0	.0	.0	.0	.2
3-4	.0	.6	.0	.0	.0	.0	.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	2.0	.0	.0	.0	.0	2.0	.0	.2	.0	.0	.0	.0	.2

	N							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	1.0	
1-2	.0	6.8	.8	.0	.0	.0	7.6	.0	22.0	4.4	.0	.0	.0	26.4	
3-4	.0	3.8	1.4	.0	.0	.0	5.4	.0	9.0	9.6	.0	.0	.0	18.6	
5-6	.0	.0	.8	.0	.0	.0	.8	.0	.0	4.0	.0	.0	.0	4.0	
7	.0	.0	.6	.0	.0	.0	.6	.0	.0	.2	.0	.0	.0	.2	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	10.6	3.8	.0	.0	.0	14.4	.0	32.0	18.2	.0	.0	.0	50.2	91.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.1	2.4	.0	.0	.0	.0	13.5	
1-2	.0	37.3	7.1	.0	.0	.0	44.4	
3-4	.0	15.9	16.7	.0	.0	.0	32.5	
5-6	.0	.0	7.1	.0	.0	.0	7.1	
7	.0	.8	1.6	.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	11.1	56.3	32.5	.0	.0	.0	100.0	126

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	5.2	25.0	26.6	6.5	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	102	3
6-7	.0	3.9	7.1	10.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	4
8-9	.0	.0	.6	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	6
10-11	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
12-13	.0	.0	.6	.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	8.4	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	0
TOTAL	21	46	95	26	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	154	3
PCT	13.6	29.9	35.7	16.9	3.2	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1919-1973
(OVER-ALL) 1857-1973

AREA 0009 KARIMATA STRAIT
1.95 108.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	4.1	.6	.0	.0	.0	.0	.0	4.7	2.1	2.1	.0	.0	.0	.0		91.2
NE	1.4	.0	5.4	.0	.0	.0	.0	6.8	1.4	1.4	.0	.0	.0	.0		90.5
E	.0	.0	22.2	.0	.0	.0	.0	22.2	.0	.0	.0	.0	.0	.0		77.8
SE	13.5	.0	.0	.0	.0	.0	.0	13.5	.0	.0	.0	.0	.0	.0		86.5
S	14.3	.0	.0	.0	.0	.0	.0	14.3	.0	.0	.0	.0	.0	.0		85.7
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
W	6.3	3.7	.0	.0	.0	.0	.0	10.0	7.9	.0	.0	.0	.0	.0		82.1
NW	4.5	1.8	.0	.0	.0	.0	.0	6.3	1.3	1.1	.0	.0	.0	.0		91.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	11.1	11.1	.0	.0	.0	.0	.0	22.2	.0	11.1	.0	.0	.0	.0		66.7
TOT PCT	4.9	1.7	.7	.0	.0	.0	.0	7.3	2.4	1.4	.0	.0	.0	.0		88.9
TOT OBS:	287															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	3.7	2.5	2.5	.0	.0	.0	.0	8.6	4.9	.0	.0	.0	.0	.0		86.4
06609	12.8	2.3	.0	.0	.0	.0	.0	15.1	2.3	.0	.0	.0	.0	.0		82.6
12615	.0	1.3	.0	.0	.0	.0	.0	1.3	.0	2.6	.0	.0	.0	.0		96.1
18621	.0	.0	.0	.0	.0	.0	.0	.0	2.0	6.0	.0	.0	.0	.0		92.0
TOT PCT	4.8	1.7	.7	.0	.0	.0	.0	7.2	2.4	1.7	.0	.0	.0	.0		88.7
TOT OBS:	293															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	17.6	5.9	.1	.0	.0		25.9	8.4	29.1	27.8	24.6	29.1	27.3	30.0	17.6	26.9
NE	.7	3.6	1.1	.0	.0	.0		5.3	7.6	5.1	.0	8.5	3.7	4.9	.0	4.7	3.0
E	.4	.9	.2	.0	.0	.0		1.4	5.7	1.2	.0	1.8	1.5	1.7	.0	1.8	.0
SE	1.0	1.6	.0	.0	.0	.0		2.6	4.5	.4	22.2	4.3	3.0	3.3	.0	1.2	.0
S	.8	2.1	.0	.0	.0	.0		2.9	4.9	3.0	.0	2.2	3.7	2.3	.0	2.4	6.1
SW	.5	3.6	.7	.0	.0	.0		4.8	7.1	4.3	11.1	4.6	7.5	4.8	.0	1.2	7.6
W	2.6	10.1	3.2	.2	.0	.0		16.1	7.9	13.8	11.1	15.3	11.9	12.6	40.0	27.4	17.4
NW	1.5	24.5	9.2	.2	.0	.0		35.5	8.7	37.6	27.8	35.0	39.6	38.8	30.0	36.8	28.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.6							5.6	.0	5.5	.0	3.6	6.0	5.0	.0	7.1	10.6
TOT OBS	99	414	131	3	0	0	647		7.6	127	9	167	67	121	5	85	66
TOT PCT	15.3	64.0	20.2	.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	9.7	15.0	1.2	.0	.0		25.9	8.4	29.0	25.9	27.4	21.7
NE	2.2	3.1	.1	.0	.0		5.3	7.6	4.8	7.2	4.2	4.0
E	1.0	.4	.0	.0	.0		1.4	5.7	1.1	1.7	1.6	1.0
SE	2.1	.5	.0	.0	.0		2.6	4.5	1.8	4.0	3.2	.7
S	2.3	.6	.0	.0	.0		2.9	4.9	2.8	2.7	2.2	4.0
SW	2.7	2.0	.2	.0	.0		4.8	7.1	4.8	5.4	4.6	4.0
W	7.5	7.5	.9	.2	.0		16.1	7.9	13.6	14.3	13.7	23.0
NW	12.9	21.3	1.4	.0	.0		35.5	8.7	36.9	34.6	38.5	33.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.6						5.6	.0	5.1	4.3	4.8	8.6
TOT OBS	297	325	24	1	0	647		7.6	136	234	126	151
TOT PCT	45.9	50.2	3.7	.2	.0		100.0		100.0	100.0	100.0	100.0

FEBRUARY

PERIOD: (PRIMARY) 1918-1973
(OVER-ALL) 1857-1973

AREA 0009 KARIMATA STRAIT
1.9S 108.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	5.1	8.8	67.6	18.4	.0	.0	.0	7.5	100.0	136
06&09	4.3	10.3	65.0	19.7	.9	.0	.0	7.7	100.0	234
12&15	4.8	9.5	64.3	21.4	.0	.0	.0	7.5	100.0	126
18&21	8.6	9.9	58.9	21.9	.7	.0	.0	7.5	100.0	151
TOT	36	63	414	131	3	0	0	7.6		647
PCT	5.6	9.7	64.0	20.2	.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	3.3	7.1	14.0	5.7		5.3
NE	.6	1.7	3.2	1.5		5.4
E	.6	.4	.4	.6		5.2
SE	.0	.0	.0	1.9		8.1
S	.4	.4	.0	1.0		5.2
SW	.1	.1	.1	1.3		5.7
W	1.2	2.6	8.6	4.8		6.0
NW	4.3	4.4	19.6	6.0		5.5
VAR	.0	.0	.0	.0		.0
CALM	.0	.6	2.9	.6		6.0
TOT OBS	16	30	84	40	172	5.6
TOT PCT	10.5	17.4	48.8	23.3	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.4	3.8	3.1	1.0	.4	.0	.0	.0	21.4	
NE	.0	.0	.0	.9	1.3	.0	.1	.0	.0	.0	4.7	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	
SE	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0	.7	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	
SW	.0	.0	.0	.0	.1	.7	.0	.0	.0	.0	.9	
W	.0	.0	.0	2.2	2.2	2.3	.6	.0	.6	.0	9.3	
NW	.0	.0	.1	.1	5.5	1.7	.0	.0	.0	.6	26.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.6	.0	.0	.0	.0	.0	.6	2.9	
TOT OBS	0	0	2	14	21	10	2	0	1	2	120	172
TOT PCT	.0	.0	1.2	8.1	12.2	5.8	1.2	.0	.6	1.2	69.8	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 >500YD	* OR >0
* OR >6500	.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7
* OR >5000	.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7
* OR >3500	1.7	2.9	2.9	2.9	2.9	2.9	2.9	2.9
* OR >2000	6.4	8.7	8.7	8.7	8.7	8.7	8.7	8.7
* OR >1000	17.4	20.9	20.9	20.9	20.9	20.9	20.9	20.9
* OR >600	22.7	28.5	28.5	28.5	28.5	28.5	28.5	28.5
* OR >300	23.3	29.7	29.7	29.7	29.7	29.7	29.7	29.7
* OR >150	23.3	29.7	29.7	29.7	29.7	29.7	29.7	29.7
* OR > 0	23.3	29.7	29.7	29.7	29.7	29.7	29.7	29.7
TOTAL	40	51	51	51	51	51	51	51

TOTAL NUMBER OF OBS: 172 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
.5	16.3	19.5	20.0	12.6	8.4	10.5	5.8	6.3	.0	190

PERIOD: (PRIMARY) 1918-1973
(OVER-ALL) 1897-1973

AREA 0009 KARIMATA STRAIT
1.9S- 108.0E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.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	1.4	.0	.0	.7	.0	.4	.7	.4	.0	.4	3.9	
	TOT %	1.4	.0	.0	.7	.0	.4	.7	.4	.0	.4	3.9	
5<10	PCP	1.4	.1	.0	.0	.0	.0	1.3	1.8	.0	.7	5.3	
	NO PCP	4.5	1.6	.4	.4	.4	2.3	4.2	3.7	.0	.4	17.9	
	TOT %	5.9	1.9	.4	.4	.4	2.3	5.5	5.4	.0	1.1	23.2	
10+	PCP	.0	.0	.4	.4	.3	.0	.4	.4	.0	.0	1.8	
	NO PCP	22.1	4.2	.9	1.8	1.2	2.1	10.1	27.1	.0	1.8	71.2	
	TOT %	22.1	4.2	1.2	2.2	1.5	2.1	10.4	27.5	.0	1.8	73.0	
	TOT OBS												285
	TOT PCT	29.4	6.1	1.6	3.2	1.8	4.7	16.7	33.2	.0	3.2	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	.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	
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	.2	.0	.0	.0	.0	.0		.5	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.5	
2<5	0-3	.0	.0	.0	.5	.0	.2	.0	.2	.0	.2	1.2	
	4-10	1.2	.0	.0	.0	.0	.0	.5	.0	.0		1.6	
	11-21	.0	.1	.1	.0	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	1.2	.1	.1	.5	.0	.2	.5	.2	.0	.2	3.0	
5<10	0-3	.2	.2	.0	.2	.2	.0	.3	.4	.0	1.2	2.8	
	4-10	3.1	.7	.2	.0	.5	1.2	2.0	3.9	.0		10.9	
	11-21	.8	.3	.0	.0	.0	.3	1.7	1.0	.0		4.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	4.1	1.3	.2	.2	.7	1.5	4.0	4.6	.0	1.2	17.8	
10+	0-3	2.8	.6	.6	.5	.2	.2	1.7	.9	.0	5.1	12.5	
	4-10	15.2	3.2	.6	2.1	1.3	1.6	4.9	20.5	.0		49.5	
	11-21	5.4	.9	.1	.0	.0	.5	2.4	6.7	.0		16.0	
	22+	.1	.0	.0	.0	.0	.0	.0	.3	.0		.5	
	TOT %	23.5	4.7	1.3	2.6	1.6	2.3	9.0	28.4	.0	5.1	78.5	
	TOT OBS												432
	TOT PCT	29.0	6.1	1.6	3.5	2.3	4.1	13.5	33.4	.0	6.5	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1918-1973
(OVERALL) 1857-1973

AREA 0009 KARIMATA STRAIT
1.9S 108.0E

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	9.8	15.7	7.8	3.9	.0	.0	3.9	41.2	58.8	51
06E09	.0	.0	3.6	7.3	9.1	3.6	.0	.0	1.8	.0	25.5	74.5	55
12E15	.0	.0	.0	8.7	6.5	4.3	.0	.0	.0	.0	19.6	80.4	46
18E21	.0	.0	.0	3.2	16.1	6.5	.0	.0	.0	.0	25.8	74.2	31
TOT	0	0	2	14	21	10	2	0	1	2	52	131	183
PCT	.0	.0	1.1	7.7	11.5	5.5	1.1	.0	.5	1.1	28.4	71.6	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	.9	.0	.0	2.8	20.4	75.9	108
06E09	.0	.0	.0	1.4	20.4	78.2	142
12E15	.0	.0	1.0	7.1	13.3	78.6	98
18E21	.0	.0	1.1	1.1	15.6	82.2	90
TOT	1	0	2	13	76	344	438
PCT	.2	.0	.5	3.0	17.8	78.5	100.0

TABLE 12

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

HOUR (GMT)	<150 <500YD	<600 <1	<1000 <5	1000+ AND5+	NM <5/8 AND 5+	TOTAL OBS
00E03	.0	.0	8.3	33.3	58.3	48
06E09	.0	4.0	12.0	16.0	72.0	50
12E15	.0	.0	11.6	11.6	76.7	43
18E21	.0	.0	3.2	22.6	74.2	31
TOT	0	2	16	36	120	172
PCT	.0	1.2	9.3	20.9	69.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	1.9	2.3	1.4	.5	15	7.0
80/84	.0	.0	.0	.0	1.4	26.5	40.5	7.9	164	76.3
75/79	.0	.0	.0	.0	.0	.9	10.7	5.1	36	16.7
TOTAL	0	0	0	0	7	66	113	29	215	100.0
PCT	.0	.0	.0	.0	3.3	30.7	52.6	13.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	1.6	.8	.7	.0	.8	.6	.9	1.0	.0	.5
	26.4	5.7	.2	.9	.9	2.4	9.2	27.7	.0	2.8
	2.9	1.0	1.2	.6	.7	.5	5.5	4.0	.0	.5
	30.9	7.6	2.1	1.5	2.4	3.5	15.6	32.7	.0	3.7

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	90	88	84	81	78	76	75	80.9	133
06E09	92	91	87	82	78	75	71	82.3	233
12E15	89	88	85	81	79	78	76	81.5	127
18E21	84	83	82	80	78	76	75	80.3	150
TOT	92	89	86	81	78	76	71	81.4	643

TABLE 16

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	65.5	13.8	84	58
06E09	.0	.0	9.0	43.3	31.3	16.4	80	67
12E15	.0	.0	1.9	34.0	56.6	7.5	82	53
18E21	.0	.0	.0	20.0	65.0	15.0	84	40
TOT	0	0	7	67	115	29	82	218

FEBRUARY

PERIOD: (PRIMARY) 1948-1973
(OVER-ALL) 1857-1973

AREA 0009 KARIMATA STRAIT
1.9S 108.0E

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	NO FOG
9/10	.0	.0	.0	.4	1.7	5	.0	2.2
7/8	.0	.0	.0	.4	.4	2	.0	.9
6	.0	.0	.0	.0	.4	1	.0	.4
5	.0	.0	.0	.9	.4	3	.0	1.3
4	.0	.0	.4	1.3	.4	5	.0	2.2
3	.0	.0	.4	.9	.0	3	.0	1.3
2	.0	.4	4.3	.9	.0	13	.0	5.6
1	.4	.4	7.4	1.3	.0	22	.0	9.5
0	.0	6.1	20.3	.4	.0	62	.0	26.8
-1	.4	4.8	14.7	.9	.0	44	.0	20.8
-2	.0	5.6	9.5	.4	.0	36	.0	15.5
-3	.0	4.3	1.7	.0	.0	14	.0	6.1
-4	.0	2.2	1.7	.0	.0	9	.0	3.9
-5	.0	.0	.4	.0	.0	1	.0	.4
-6	.4	2.2	.0	.0	.0	6	.0	2.6
-7/-8	.0	.4	.0	.0	.0	1	.0	.4
TOTAL		61		18			0	231
	3		141		5	231		
PCT	1.3	26.4	61.0	7.8	3.5	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	.7	1.1	.0	.0	.0	.0	2.4
1-2	1.1	11.8	.7	.0	.0	.0	13.6
3-4	.0	7.9	5.5	.0	.0	.0	13.4
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	1.8	20.8	9.4	.0	.0	.0	32.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.2	.0	.0	.0	.4
1-2	.0	3.9	.7	.0	.0	.0	4.6
3-4	.0	1.1	.0	.0	.0	.0	1.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.1	.9	.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	.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	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

PERIOD: (OVER-ALL) 1963-1973

FEBRUARY

TABLE 18 (CONT)

AREA 0009 KARIMATA STRAIT
1.95 108.0E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2
1-2	.0	1.3	.0	.0	.0	.0	1.3	.0	.0	.7	.0	.0	.0	.7
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.7	.2	.0	.0	.0	.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	1.3	.0	.0	.0	.0	1.3	.2	.7	.9	.0	.0	.0	1.8

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	1.1	.6	.0	.0	.0	.0	1.7	.2	1.1	.0	.0	.0	.0	1.3	
1-2	.7	4.0	1.5	.0	.0	.0	6.3	1.1	16.4	2.9	.0	.0	.0	20.4	
3-4	.0	2.6	2.8	.0	.0	.0	5.3	.0	2.4	9.2	.0	.0	.0	11.6	
5-6	.0	.0	2.4	.0	.0	.0	2.4	.0	.0	1.7	.7	.0	.0	2.4	
7	.0	.0	.7	.0	.0	.0	.7	.0	.0	1.5	.0	.0	.0	1.5	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.8	7.2	7.4	.0	.0	.0	16.4	1.3	19.9	15.3	.7	.0	.0	37.1	96.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.6	2.9	.7	.0	.0	.0	10.2	
1-2	2.9	38.7	6.6	.0	.0	.0	48.2	
3-4	.0	14.6	17.5	.0	.0	.0	32.1	
5-6	.0	.0	6.6	.7	.0	.0	7.3	
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	
								137
TOT PCT	9.5	56.2	33.6	.7	.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	7.7	31.0	23..	4.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	113	2
6-7	.0	4.2	4.8	4.2	3.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	4
8-9	.0	1.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	3
10-11	.0	.6	.6	.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	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
INDET	4.8	1.2	4.8	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	2
TOTAL	21	64	58	16	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	168	3
PCT	12.5	38.1	34.5	9.5	4.8	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MARCH

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

AREA 0009 MARIMATA STRAIT
1.95 108.1E

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 BLWG	DUST SNOW	NO SIG WEA
N	3.6	3.6	.0	.0	.0	.0	.0	7.2	.0	2.5	.0	.0	.0	.0	.0	90.3
NE	8.7	2.9	.0	.0	.0	.0	.0	11.6	.0	.0	.0	.0	.0	.0	.0	88.4
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
S	7.4	5.6	.0	.0	.0	.0	.0	13.0	.0	7.4	.0	.0	.0	.0	.0	87.0
SW	6.3	4.0	.0	.0	.0	.0	.0	10.3	4.0	4.0	.0	.0	.0	3.2		78.6
W	1.5	5.7	.0	.0	.0	.0	.0	7.3	2.7	2.7	.0	.0	.0	.0		87.4
NW	5.0	.3	1.3	.0	.0	.0	.0	6.6	2.5	1.6	.0	.0	.0	.0		89.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	.0	.0	.0	.0		97.0
TOT PCT	3.7	2.8	.3	.0	.0	.0	.0	6.0	1.5	2.5	.0	.0	.0	.3		89.2
TOT OBS:	323															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	6.7	4.4	.0	.0	.0	.0	.0	11.1	2.2	.0	.0	.0	.0	.0		86.7
06&09	2.2	3.3	1.1	.0	.0	.0	.0	6.7	1.1	.0	.0	.0	.0	.0		92.2
12&15	.0	.0	.0	.0	.0	.0	.0	.0	2.4	4.8	.0	.0	.0	.0		92.8
18&21	6.4	2.6	1.3	.0	.0	.0	.0	10.3	.0	7.7	.0	.0	.0	1.3		82.1
TOT PCT	3.8	2.6	.6	.0	.0	.0	.0	7.0	1.5	2.9	.0	.0	.0	.3		88.6
TOT OBS:	341															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	3.7	14.3	2.7	.0	.1	.0		20.8	6.9	19.2	30.8	24.0	21.0	24.3	11.1	16.7	15.9
NE	1.7	2.4	.2	.0	.0	.0		4.3	5.2	3.0	15.4	4.9	5.1	6.3	5.6	2.3	1.8
E	1.8	1.8	.5	.0	.0	.0		4.1	5.5	4.9	.0	4.8	7.2	3.2	.0	2.3	3.7
SE	.5	1.1	.1	.0	.0	.0		1.7	6.3	1.1	.0	1.0	3.6	.7	.0	.9	6.7
S	1.7	2.6	.3	.0	.0	.0		4.7	5.2	3.9	.0	4.5	3.6	6.5	.0	3.6	6.7
SW	1.4	6.4	1.4	.1	.0	.0		9.3	7.0	2.8	11.5	10.1	10.9	11.8	27.2	7.7	8.5
W	3.4	12.8	2.0	.1	.0	.0		18.2	6.8	18.5	19.2	16.7	18.8	15.7	44.4	18.0	22.0
NW	4.0	16.5	3.9	.1	.1	.0		24.6	7.6	29.1	23.1	24.4	25.4	19.6	16.7	29.3	20.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	12.2							12.2	.0	14.5	.0	9.6	4.3	11.9	.0	19.8	14.6
TOT OBS	222	422	82	2	1	0	729		6.0	133	13	178	69	134	9	111	82
TOT PCT	30.5	57.9	11.2	.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	11.0	9.7	.1	.1	.0		20.8	6.9	20.2	23.2	23.4	16.3
NE	3.0	1.3	.0	.0	.0		4.3	5.2	4.1	5.0	6.3	2.1
E	2.9	1.0	.1	.0	.0		4.1	5.5	4.5	5.5	3.0	2.8
SE	.9	.8	.0	.0	.0		1.7	6.3	1.0	1.7	.7	3.1
S	3.3	1.3	.0	.0	.0		4.7	5.2	3.6	4.3	6.1	4.9
SW	5.1	4.1	.1	.0	.0		9.3	7.0	6.3	10.3	12.4	8.0
W	10.2	7.4	.6	.0	.0		18.2	6.8	18.7	17.3	17.5	19.7
NW	11.2	12.4	1.0	.1	.0		24.6	7.6	28.6	24.7	19.[illegible]	25.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	12.2						12.2	.0	13.0	8.1	11.2	17.6
TOT OBS	437	277	14	1	0	729		6.0	148	247	143	193
TOT PCT	59.9	38.0	1.9	.1	.0		100.0		100.0	100.0	100.0	100.0

MARCH

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

AREA 0009 KARIMATA STRAIT
1.9S 108.1E

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	13.0	17.8	59.6	9.6	.0	.0	.0	6.1	100.0	146
06&09	8.1	17.4	57.1	16.6	.4	.4	.0	6.6	100.0	247
12&15	11.7	21.0	58.0	9.8	.0	.0	.0	5.6	100.0	143
18&21	17.6	17.6	57.5	6.7	.5	.0	.0	5.3	100.0	193
TOT	89	133	422	82	2	1	0	6.0		729
PCT	12.2	18.2	57.9	11.2	.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	5.0	3.7	13.4	2.8		5.0
NE	.7	.8	1.7	1.1		5.4
E	1.1	.5	1.2	.4		4.2
SE	.0	.0	.3	.0		5.8
S	.0	.3	2.0	1.4		6.6
SW	.0	.3	3.4	3.4		7.2
W	1.8	3.8	8.0	3.9		5.6
NW	.9	9.1	12.6	6.4		5.6
VAR	.0	.0	.0	.0		.0
CALM	3.2	1.1	3.2	2.6		4.5
TOT OBS	24	37	87	42	190	5.4
TOT PCT	12.6	19.5	45.8	22.1	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	2.1	1.7	1.8	.5	.0	.0	18.7	
NE	.0	.0	.0	.3	.5	.0	.5	.0	.0	.5	2.4	
E	.0	.0	.0	.8	.0	.4	.0	.0	.0	.0	2.0	
SE	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
S	.0	.0	.0	.4	.5	.0	.0	.0	.0	.0	2.8	
SW	.0	.0	.0	.1	2.1	.7	.5	.0	.0	.0	3.7	
W	.0	.0	.4	1.6	2.4	2.2	.5	.0	.0	.0	10.5	
NW	.0	.0	.7	2.1	5.5	2.2	.8	.0	.0	.0	17.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	2.1	1.6	.0	.0	.0	.0	.0	6.3	
TOT OBS	0	0	2	14	28	14	8	1	0	1	122	190
TOT PCT	.0	.0	1.1	7.4	14.7	7.4	4.2	.5	.0	.5	64.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/5) 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	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
* OR >3500	4.5	5.0	5.0	5.0	5.0	5.0	5.0	5.0
* OR >2000	12.1	12.6	13.1	13.1	13.1	13.1	13.1	13.1
* OR >1000	25.1	27.1	28.1	28.1	28.1	28.1	28.1	28.1
* OR >600	30.7	33.7	34.7	34.7	34.7	35.2	35.2	35.2
* OR >300	31.7	34.7	35.7	35.7	35.7	36.2	36.2	36.2
* OR >150	31.7	34.7	35.7	35.7	35.7	36.2	36.2	36.2
* OR > 0	31.7	34.7	35.7	35.7	35.7	36.2	36.2	36.2
TOTAL	63	69	71	71	71	72	72	72

TOTAL NUMBER OF OBS: 199 PCT FREQ NH <5/8: 63.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
4.1	13.3	17.5	20.3	10.6	11.1	10.1	2.8	9.7	.0	217

MARCH

PERIOD: (PRIMARY) 1917-1973
(OVER-ALL) 1957-1973

AREA 0009: KARIMATA STRAIT
1.9S 108.1E

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	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
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	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
2<5	PCP	.0	.1	.0	.0	.0	.0	.3	.0	.0	.0	.3	
	NO PCP	.3	.1	.5	.0	.0	.0	.6	.3	.0	.0	1.9	
	TOT %	.3	.1	.5	.0	.0	.0	.9	.3	.0	.0	2.2	
5<10	PCP	.8	.2	.0	.0	.5	.4	.3	.3	.0	.0	2.5	
	NO PCP	1.8	.6	.5	.3	1.2	3.2	4.2	3.0	.0	2.5	17.4	
	TOT %	2.6	.9	.5	.3	1.7	3.6	4.5	3.3	.0	2.5	19.9	
10+	PCP	.3	.5	.0	.0	.0	.6	.5	1.2	.0	.0	3.4	
	NO PCP	17.9	3.9	2.0	.9	2.5	5.6	14.1	19.7	.0	7.5	73.9	
	TOT %	18.3	4.3	2.0	.9	2.5	6.2	14.6	21.0	.0	7.5	77.3	
	TOT OBS												322
	TOT PCT	21.5	5.4	3.0	1.2	4.2	9.9	20.3	24.7	.0	9.9	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	.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	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
1<2	0-3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	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	.2	.0	.0	.0	.0	.0	.0	.0	.0	.4	
2<5	0-3	.0	.1	.4	.0	.0	.0	.0	.0	.0	.0	.4	
	4-10	.2	.0	.0	.0	.1	.1	.6	.0	.0		1.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.2	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.1	.4	.0	.1	.1	.6	.2	.0	.0	1.7	
5<10	0-3	.4	.5	.2	.1	.1	.4	.4	.5	.0	1.9	4.6	
	4-10	1.5	.3	.1	.1	.7	1.5	2.1	2.4	.0		8.9	
	11-21	.2	.0	.0	.0	.3	.7	.6	.2	.0		2.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	2.2	.8	.3	.2	1.2	2.7	3.2	3.1	.0	1.9	15.6	
10+	0-3	3.0	1.4	.8	.1	.8	.6	3.6	3.3	.0	9.5	23.2	
	4-10	13.6	2.9	1.4	.7	1.2	4.6	10.4	15.9	.0		50.4	
	11-21	2.4	.3	.0	.2	.1	.7	.8	3.2	.0		7.8	
	22+	.0	.0	.0	.0	.0	.1	.1	.2	.0		.4	
	TOT %	19.0	4.4	2.2	1.0	2.1	6.1	15.0	22.5	.0	9.5	81.9	
	TOT OBS												474
	TOT PCT	21.6	5.5	2.9	1.2	3.4	9.0	19.0	26.1	.0	11.4	100.0	

MARCH

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

AREA 0009 KARIMATA STRAIT
1.9S 108.1E

TABLE 10

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

HOUR (GMT)	000 149	150 299	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	1.8	12.5	8.9	7.1	1.8	.0	.0	.0	32.1	67.9	56
06Z09	.0	.0	1.8	3.5	17.5	8.8	5.3	.0	.0	1.8	38.6	61.4	57
12Z15	.0	.0	.0	7.5	15.1	5.7	3.8	1.9	.0	.0	34.0	66.0	53
18Z21	.0	.0	.0	2.0	14.0	8.0	4.0	.0	.0	.0	28.0	72.0	50
TOT	0	0	2	14	30	16	8	1	0	1	72	144	216
PCT	.0	.0	.9	6.5	13.9	7.4	3.7	.5	.0	.5	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
00Z03	.8	.0	.8	.8	16.8	80.7	119
06Z09	.0	.0	.0	.7	13.8	85.5	139
12Z15	.0	.9	.9	5.5	12.8	79.8	109
18Z21	.0	.0	.0	.8	20.6	78.6	126
TOT	1	1	2	9	79	400	492
PCT	.2	.2	.4	1.8	16.1	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 <500YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00Z03	.0	3.6	16.4	16.4	67.3	55
06Z09	.0	2.0	4.0	34.0	56.0	50
12Z15	.0	.0	10.4	29.2	60.4	48
18Z21	.0	.0	2.2	28.3	69.6	46
TOT	0	3	19	54	126	199
PCT	.0	1.5	9.5	27.1	63.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.0	.5	.0	.0	1	.5
85/89	.0	.0	.0	.0	1.4	4.6	1.4	.0	16	7.4
80/84	.0	.0	.0	.0	.5	24.9	52.5	7.8	186	85.7
75/79	.0	.0	.0	.0	.0	.5	3.7	2.3	14	6.5
TOTAL	0	0	0	0	4	66	125	22	217	100.0
PCT	.0	.0	.0	.0	1.8	30.4	57.6	10.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.3	.0	.0	.0	.0	.0	.0	.1	.0	.0
	2.8	.5	.3	.1	.0	.0	.3	2.9	.0	.5
	19.1	4.7	2.1	.6	4.0	9.3	15.3	20.4	.0	10.1
	.5	.0	.2	.2	.0	.0	3.2	2.3	.0	.0
	22.7	5.2	2.6	.9	4.0	9.3	18.9	25.7	.0	10.6

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	89	86	84	81	79	74	73	81.3	149
06Z09	91	90	88	83	79	77	73	82.9	246
12Z15	91	90	85	82	79	77	75	82.0	146
18Z21	90	87	84	81	78	76	76	81.2	194
TOT	91	90	86	82	78	76	73	81.9	735

TABLE 16

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	20.7	67.2	12.1	84	58
06Z09	.0	.0	6.5	48.4	35.5	9.7	79	62
12Z15	.0	.0	2.0	30.0	58.0	12.0	83	50
18Z21	.0	.0	.0	19.3	75.4	5.3	84	57
TOT	0	0	9	67	133	22	82	227

MARCH

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

AREA 0009 KARIMATA STRAIT
1.95 108.1E

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	# FOG	NO FOG
7/8	.0	.0	.0	.4	.4	2	.0	.7
6	.0	.0	.4	.4	.7	4	.0	1.4
5	.0	.0	.0	1.1	.4	4	.0	1.4
4	.0	.0	.7	1.1	.0	5	.0	1.8
3	.0	.0	2.1	1.1	.0	9	.0	3.2
2	.0	.0	4.2	1.1	.0	15	.0	5.3
1	.0	.7	6.0	.7	.0	21	.0	7.4
0	.0	.0	18.0	1.1	.0	54	.0	19.1
-1	.0	3.9	14.5	.7	.0	54	.0	19.1
-2	.0	4.9	18.0	.0	.0	65	.0	23.0
-3	.0	4.6	4.2	.0	.0	25	.0	8.8
-4	.7	1.8	3.9	.0	.0	18	.0	6.4
-5	.4	.7	.0	.0	.0	3	.0	1.1
-6	.0	1.1	.4	.0	.0	4	.0	1.4
TOTAL	3	50	205	21	4	283	0	283
PCT	1.1	17.7	72.4	7.4	1.4	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	1.8	.0	.0	.0	.0	1.8
1-2	.7	15.1	1.7	.0	.0	.0	17.5
3-4	.0	3.7	4.2	.0	.0	.0	7.9
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	.7	20.6	5.9	.0	.0	.0	27.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7
1-2	.7	2.0	.2	.0	.0	.0	2.9
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	.7	2.8	.9	.0	.0	.0	4.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.5	.0	.0	.0	.0	.0	1.5
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	1.5	.6	.0	.0	.0	.0	2.0

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

MARCH

TABLE 18 (CONT)

AREA 0009 KARIMATA STRAIT
1.9S 108.1E

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	1.5	.0	.0	.0	.0	.0	1.5	.0	1.7	.0	.0	.0	.0	1.7
1-2	.0	1.3	.6	.0	.0	.0	1.9	.0	4.0	.9	.0	.0	.0	5.0
3-4	.0	.7	.0	.0	.0	.0	.7	.0	1.7	.7	.0	.0	.0	2.4
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	2.0	.6	.0	.0	.0	4.0	.0	7.4	1.7	.0	.0	.0	9.0

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.6	2.2	.0	.0	.0	.0	2.8	.7	2.4	.0	.0	.0	.0	2.6	
1-2	1.3	5.3	.6	.0	.0	.0	7.2	.9	9.9	4.2	.0	.0	.0	15.1	
3-4	.0	7.0	1.5	.0	.0	.0	8.5	.0	3.1	3.1	.7	.0	.0	7.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	.0	.0	.0	1.5	
7	.0	.0	.7	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.9	14.5	2.8	.0	.0	.0	19.1	1.1	16.2	8.1	.7	.0	.0	26.1	91.9

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	8.6	.0	.0	.0	.0	21.4	
1-2	4.3	37.9	7.9	.0	.0	.0	50.0	
3-4	.0	15.7	10.0	.7	.0	.0	26.4	
5-6	.0	.7	.7	.0	.0	.0	1.4	
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	17.1	62.9	19.3	.7	.0	.0	100.0	140

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	12.6	37.1	16.0	4.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	123	[illegible]
6-7	.0	9.4	5.1	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	[illegible]
8-9	.0	.0	1.1	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	[illegible]
10-11	.0	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	3
12-13	.0	.0	1.1	.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	12.6	1.7	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	0
TOTAL	44	75	43	11	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	175	2
PCT	25.1	42.9	24.6	6.3	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1905-1972
(OVER-ALL) 1857-1972

AREA 0009 KARIMATA STRAIT
1.95 108.1E

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 BLWG	DUST SNOW	NO SIG WEA
N	5.4	.0	.0	.0	.0	.0	.0	5.4	4.3	10.9	.0	.0	.0	.0		81.5
NE	7.4	4.3	.0	.0	.0	.0	.0	11.7	.0	10.6	.0	.0	.0	.0		79.8
E	2.5	1.9	1.9	.0	.0	.0	.0	6.2	2.5	9.9	.0	.0	.0	.0		83.9
SE	6.4	.5	.5	.0	.0	.0	.0	7.5	7.0	4.3	.0	.0	2.1	.0		79.1
S	6.5	4.3	.0	.0	.0	.0	.0	10.8	3.2	8.6	.0	.0	.0	.0		77.4
SW	2.7	10.7	5.3	.0	.0	.0	.0	16.7	5.3	.0	.0	.0	.0	.0		76.0
W	5.9	5.2	.0	.0	.0	.0	.0	11.1	5.9	5.2	.0	1.5	.0	.0		76.3
NW	13.0	4.1	.0	.0	.0	.0	.0	17.1	.0	13.8	3.3	1.6	.0	.0		67.5
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	2.5	11.1	.0	.0	.0	.0		86.1
TOT PCT	5.4	2.9	.7	.0	.0	.0	.0	9.1	3.6	8.3	.4	.4	.4	.0		79.0
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 BLWG	DUST SNOW	NO SIG WEA
00603	6.6	3.9	.0	.0	.0	.0	.0	10.5	3.9	5.3	1.3	.0	.0	.0		80.3
06609	5.2	1.3	1.3	.0	.0	.0	.0	7.8	3.9	.0	1.3	1.3	.0	.0		85.7
12615	1.4	1.4	.0	.0	.0	.0	.0	2.9	1.4	11.6	.0	.0	1.4	.0		84.1
18621	6.8	4.1	1.4	.0	.0	.0	.0	12.2	4.1	18.9	.0	.0	.0	.0		66.2
TOT PCT	5.1	2.7	.7	.0	.0	.0	.0	8.4	3.4	8.8	.7	.3	.3	.0		79.1
TOT OBS:	296															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	6.1	.2	.1	.0	.0		9.0	6.0	4.3	12.5	13.0	10.7	6.7	.0	6.9	10.4
NE	2.2	5.7	.4	.0	.0	.0		8.4	5.3	10.6	8.3	9.2	13.6	6.1	.0	5.7	5.6
E	3.4	7.2	.8	.1	.0	.0		11.5	5.9	16.9	8.3	14.8	10.0	7.2	.0	10.0	4.9
SE	2.3	11.0	1.1	.0	.0	.0		14.5	6.5	17.3	20.8	9.9	12.9	13.3	15.0	18.8	19.4
S	3.5	5.7	.1	.0	.0	.0		9.3	4.8	7.9	4.2	6.1	11.4	9.1	25.0	13.6	12.5
SW	2.7	6.1	.8	.0	.0	.0		9.6	5.9	7.5	4.2	8.4	13.6	8.7	15.0	10.2	13.9
W	1.5	7.8	1.1	.0	.1	.0		10.5	6.9	7.5	20.8	10.7	12.9	16.1	20.0	6.9	5.6
NW	2.9	6.2	1.0	.3	.0	.0		10.4	6.4	8.3	20.8	11.3	9.3	12.0	15.0	8.8	9.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	16.9							16.9	.0	19.5	.0	16.7	5.7	20.9	10.0	19.0	16.1
TOT OBS	276	407	41	4	1	0	729		5.0	123	12	222	70	115	10	105	72
TOT PCT	37.9	55.8	5.4	.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	5.3	3.5	.1	.0	.0		9.0	6.0	5.0	12.4	6.2	8.3
NE	6.3	2.1	.0	.0	.0		8.4	5.3	10.4	10.3	5.6	5.6
E	7.9	3.2	.4	.0	.0		11.5	5.9	16.1	13.6	6.6	7.9
SE	8.4	6.0	.0	.0	.0		14.5	6.5	17.8	10.6	13.4	19.1
S	7.2	2.0	.1	.0	.0		9.3	4.8	7.6	7.4	10.4	13.1
SW	6.5	2.8	.3	.0	.0		9.6	5.5	7.2	9.7	9.2	11.7
W	6.6	3.5	.3	.0	.1		10.5	6.9	8.7	11.2	16.4	8.4
NW	7.0	2.9	.3	.1	.0		10.4	6.4	9.4	10.8	12.2	9.2
VAR	.0	.0	.0	.0	.0		.0	0	.0	.0	.0	.0
CALM	16.9						16.9	0	17.8	14.0	20.0	18.6
TOT OBS	525	190	12	1	1	729		5.3	135	292	125	177
TOT PCT	72.0	26.1	1.6	.1	.1		100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1905-1972
(OVER-ALL) 1857-1972

AREA 0009 KARIMATA STRAIT
1.9S 106.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00603	17.8	20.0	57.0	5.2	.0	.0	.0	4.9	100.0	135
06609	14.0	19.9	58.2	6.5	1.0	.3	.0	5.5	100.0	292
12615	20.0	25.6	51.2	3.2	.0	.0	.0	4.4	100.0	125
18621	18.6	20.3	54.2	6.2	.0	.0	.0	4.8	100.0	177
TOT	123	153	407	41	4	1	0	5.0		729
PCT	16.9	21.0	55.8	5.6	.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	.0	2.3	4.0	2.3		5.9
NE	.6	1.9	3.5	1.4		5.4
E	1.1	3.9	10.1	1.8		5.5
SE	.6	5.0	7.0	2.9		5.5
S	1.7	1.4	2.6	.8		4.7
SW	1.2	2.3	.7	2.3		5.1
W	1.0	2.5	5.2	4.3		5.8
NW	.6	2.8	4.4	2.3		5.3
VAR	.0	.0	.0	.0		.0
CALM	3.9	2.8	6.1	2.8		4.6
TOT OBS	19	45	79	38	181	5.3
TOT PCT	10.5	24.9	43.6	21.0	100.0	

TABLE 6

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

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.6	2.5	.0	.4	.0	.0	.0	5.2	
NE	.0	.0	.0	.0	.1	.6	.0	.6	.0	.0	6.1	
E	.0	.0	1.0	.0	1.0	1.5	.0	.0	.0	.0	13.4	
SE	.0	.0	.1	1.2	.8	.8	.0	.0	.0	.0	12.4	
S	.0	.0	.0	.4	.4	.4	.0	.0	.0	.0	5.2	
SW	.0	.0	.0	.0	1.7	.6	.0	.0	.0	.0	4.4	
W	.0	.4	1.5	.6	.7	1.0	.0	.0	.0	.0	8.7	
NW	.0	.6	.1	.6	1.7	.1	.7	.0	.0	.0	6.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	1.7	.6	.0	.0	.6	.6	.0	12.2	
TOT OBS	0	2	5	9	17	9	2	2	1	0	134	181
TOT PCT	.0	1.1	2.8	5.0	9.4	5.0	1.1	1.1	.6	.0	74.0	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.5	.5	.5	.5	.5	.5	.5	.5
* OR >5000	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5
* OR >3500	2.1	2.1	2.6	2.6	2.6	2.6	2.6	2.6
* OR >2000	6.2	6.2	7.7	7.7	7.7	7.7	7.7	7.7
* OR >1000	12.9	14.9	16.5	16.5	16.5	16.5	16.5	16.5
* OR >600	16.5	19.6	21.1	21.1	21.1	21.1	21.1	21.1
* OR >300	18.6	21.6	23.7	23.7	23.7	23.7	23.7	23.7
* OR >150	19.1	22.2	24.7	24.7	24.7	24.7	24.7	24.7
* OR > 0	19.1	22.2	24.7	24.7	24.7	24.7	24.7	24.7
TOTAL	37	43	48	48	48	48	48	48

TOTAL NUMBER OF OBS: 190 PCT FREQ NH <5/8: 75.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
9.4	14.1	23.3	19.4	13.6	2.4	8.7	5.3	9.7	.0	206

APRIL

PERIOD: (PRIMARY) 1905-1972
(OVER-ALL) 1857-1972

AREA 0009 KARIMATA STRAIT
1.95 108.1E

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	.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	.7	.0	.4	.0	.0	.0	.0	.0	.0	1.1	
	TOT %	.0	.7	.0	.4	.0	.0	.0	.0	.0	.0	1.1	
2<5	PCP	.0	.0	.0	.0	.0	.4	.4	.4	.0	.0	1.1	
	NO PCP	.0	.4	.4	.0	.0	.0	.7	.0	.0	.4	1.8	
	TOT %	.0	.4	.4	.0	.0	.4	1.1	.4	.0	.4	2.9	
5<10	PCP	.2	.6	.4	.4	.7	.4	.0	.4	.0	.0	3.3	
	NO PCP	.4	.7	2.2	3.8	1.2	.6	1.4	1.6	.0	1.4	13.4	
	TOT %	.6	1.3	2.5	4.2	1.9	1.0	1.4	2.0	.0	1.4	16.7	
10+	PCP	.2	.7	.9	.9	.2	.6	1.0	1.2	.0	.0	4.7	
	NO PCP	7.5	9.7	11.1	11.5	6.3	4.9	8.7	7.6	.0	11.2	74.6	
	TOT %	7.7	9.9	11.7	12.4	6.5	5.6	9.7	8.8	.0	11.2	79.3	
	TOT OBS												278
	TOT PCT	8.3	8.5	14.6	16.9	8.4	6.8	12.2	11.1	.0	13.0	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	.3	.2	.0	.0	.0	.0	.0	.5	
	4-10	.0	.5	.0	.0	.0	.0	.1	.1	.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	.5	.0	.3	.2	.0	.1	.1	.0	.0	1.2	
2<5	0-3	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2	.7	
	4-10	.0	.2	.0	.1	.1	.2	.2	.2	.0		1.2	
	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	.2	.2	.1	.1	.2	.7	.2	.0	.2	2.2	
5<10	0-3	.2	.5	.2	.4	.7	.4	.0	.2	.0	1.2	3.9	
	4-10	.3	.6	1.5	3.1	.7	.7	1.1	1.3	.0		9.3	
	11-21	.0	.2	.0	.0	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.5	1.3	1.7	3.5	1.4	1.0	1.1	1.6	.0	1.2	13.4	
10+	0-3	2.8	1.5	2.6	1.6	2.2	2.3	.4	2.4	.0	14.2	20.1	
	4-10	4.2	4.4	6.1	10.3	6.8	4.5	7.3	4.5	.0		48.2	
	11-21	.3	.1	1.2	.6	.1	.4	1.2	1.0	.0		4.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	7.3	6.1	9.8	12.4	9.2	7.2	9.0	8.0	.0	14.2	83.1	
	TOT OBS												409
	TOT PCT	7.8	8.1	11.8	18.4	10.9	8.5	10.9	10.0	.0	15.6	100.0	

APRIL

PERIOD: (PRIMARY) 1965-1972
(OVER-ALL) 1857-1972

AREA 0009 KARIMATA STRAIT
1.95 108.1E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	3000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	1.8	5.4	7.1	7.1	1.8	1.8	.0	.0	25.0	75.0	56
06E09	.0	1.9	3.8	1.9	11.3	3.8	.0	.0	.0	.0	22.6	77.4	53
12E15	.0	2.2	.0	4.3	10.9	4.3	.0	.0	.0	.0	21.7	78.3	46
18E21	.0	.0	4.4	6.7	4.4	4.4	2.2	2.2	2.2	.0	26.7	73.3	45
TOT	0	2	5	9	17	10	2	2	1	0	48	152	200
PCT	.0	1.0	2.5	4.5	8.5	5.0	1.0	1.0	.5	.0	24.0	76.0	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
00E03	.0	.0	1.9	2.8	11.1	84.0	108
06E09	.0	.0	.8	2.3	12.4	84.5	129
12E15	.0	.0	2.4	3.6	14.3	79.8	84
18E21	.0	.0	.0	.9	17.6	81.5	108
TOT	0	0	5	10	59	355	429
PCT	.0	.0	1.2	2.3	13.8	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 <3	1000+ AND3+	NH <5/8 AND 3+	TOTAL OBS
00E03	.0	1.8	10.9	14.5	74.5	55
06E09	.0	5.9	7.8	15.7	76.5	51
12E15	.0	2.2	8.9	13.3	77.8	45
18E21	.0	4.7	11.6	16.3	72.1	43
TOT	0	7	19	29	146	194
PCT	.0	3.6	9.8	14.9	75.3	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	.5	.0	.0	.0	1	.5
85/89	.0	.0	.0	.0	1.9	10.1	2.5	.0	27	13.6
80/84	.0	.0	.0	.0	.5	35.7	34.7	5.0	153	76.9
75/79	.0	.0	.0	.0	.0	.0	6.0	3.0	18	9.0
TOTAL	0	0	0	0	4	91	86	18	199	100.0
PCT	.0	.0	.0	.0	2.0	45.7	43.2	9.0		

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	.1	.0	.0
	1.4	.5	3.1	2.4	.5	2.1	1.4	1.6	.0	.5
	3.9	6.2	14.8	14.3	6.3	3.6	8.9	6.3	.0	12.6
	.9	3.1	.0	2.0	.9	.1	.5	1.0	.0	.5
	6.5	9.8	18.0	18.7	7.7	5.9	10.8	9.0	.0	13.6

TABLE 15

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

HOUR (GMT)	MAX	90%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	88	87	86	82	76	77	77	82.5	137
06E09	95	93	90	84	79	76	75	84.5	294
12E15	95	87	86	83	81	79	77	83.0	125
18E21	86	85	85	82	79	76	71	82.1	179
TOT	95	91	88	83	79	77	71	83.3	735

TABLE 16

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	30.9	60.0	9.1	81	55
06E09	.0	.0	7.1	58.9	25.0	8.9	78	56
12E15	.0	.0	.0	48.0	46.0	6.0	81	50
18E21	.0	.0	.0	45.3	41.5	13.2	82	53
TOT	0	0	4	98	92	20	80	214

APRIL

PERIOD: (PRIMARY) 1905-1972
(OVER-ALL) 1857-1972

AREA 0009 KARIMATA STRAIT
1.0S 108.1E

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	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	1.5	4	.0	1.5
9/10	.0	.0	.0	.4	1	.0	.4
7/8	.0	.0	.4	.4	2	.0	.7
5	.0	.7	.0	.0	2	.0	.7
4	.0	.0	.0	.7	2	.0	.7
3	.0	.4	1.1	.4	5	.0	1.9
2	.0	.7	2.2	.4	9	.0	3.4
1	.0	3.7	3.7	.0	20	.0	7.5
0	.0	10.8	2.2	.0	35	.4	12.7
-1	.0	17.5	2.6	.0	54	.0	20.1
-2	1.1	17.9	.0	.0	51	.0	19.0
-3	1.1	8.6	.0	.0	26	.0	9.7
-4	2.6	6.3	.0	.0	24	.4	8.6
-5	1.5	4.1	.4	.0	16	.0	6.0
-6	.4	2.2	.0	.0	7	.0	2.6
-7/-8	2.2	.4	.0	.0	7	.0	2.6
-9/-10	1.1	.0	.0	.0	3	.0	1.1
TOTAL	27		36			2	266
		197		10	268		
PCT	10.1	73.5	12.7	3.8	100.0	.7	99.3

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	1.4	3.9	.6	.0	.0	.0	5.9
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	1.4	3.9	.6	.0	.0	.0	5.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	.8	.0	.0	.0	.0	1.6
1-2	1.0	6.7	.0	.0	.0	.0	7.7
3-4	.0	.8	.8	.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	1.8	8.3	.8	.0	.0	.0	10.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	.8	.0	.0	.0	.0	2.0
1-2	2.2	7.5	.8	.0	.0	.0	10.4
3-4	.0	3.0	2.2	.0	.0	.0	5.1
5-6	.0	.0	.8	.0	.0	.0	.8
7	.8	.0	.0	.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	4.1	11.2	3.7	.0	.0	.0	19.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	3.1	.0	.0	.0	.0	3.5
1-2	.2	10.2	.0	.0	.0	.0	10.4
3-4	.0	3.9	1.0	.0	.0	.0	4.9
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	.6	17.3	1.8	.0	.0	.0	19.7

PERIOD: (OVER-ALL) 1963-1972

APRIL

TABLE 18 (CONT)

AREA 0009 KARIMATA STRAIT
1.9S 108.1E

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	2.4	.0	.0	.0	.0	2.4
1-2	.6	3.3	.0	.0	.0	.0	3.9
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	.6	7.5	.0	.0	.0	.0	8.1

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.0	.0	.0	.0	1.0
1-2	.0	3.0	.0	.0	.0	.0	3.0
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	.0	4.7	.0	.0	.0	.0	4.7

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.4	.0	.0	.0	.0	1.4
1-2	.6	6.3	.8	.0	.0	.0	7.7
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	.6	9.1	.8	.0	.0	.0	10.4

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	2.8	2.4	.2	.0	.0	.0	5.3	
3-4	.0	.2	.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	4.3	2.6	.2	.0	.0	.0	7.1	85.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	20.5	9.1	.0	.0	.0	.0	29.5	
1-2	8.3	41.7	2.3	.0	.0	.0	52.3	
3-4	.6	11.4	3.8	.0	.0	.0	15.9	
5-6	.0	.0	1.5	.0	.0	.0	1.5	
7	.8	.0	.0	.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	
								132
TOT PCT	30.3	62.1	7.6	.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	9.6	42.1	14.0	2.2	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	122	2
6-7	.0	1.7	3.4	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	3
8-9	.0	.6	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	4
10-11	.0	.6	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	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	19.7	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	37	0
TOTAL	52	92	35	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	178	2
PCT	29.2	48.1	19.7	4.5	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1658-1972

AREA 0009 KAPIMATA STRAIT
1.8S 106.0E

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	34.8	.0	.0	.0	.0	.0	.0	94.5	.0	.0	.0	.0	.0	.0		65.2
NE	5.8	.0	.0	.0	.0	.0	.0	5.8	.0	7.7	.0	.0	.0	.0		86.5
E	6.6	4.2	.0	.0	.0	.0	.0	10.8	.0	4.2	.0	.0	.0	.0		87.3
SE	2.4	1.3	.0	.0	.0	.0	.0	3.7	.0	6.8	.0	.0	.0	.0		89.5
S	4.1	2.4	.0	.0	.0	.0	.0	6.5	.0	6.2	.0	.0	.0	.0		85.3
SW	4.9	4.9	4.9	.0	.0	.0	.0	14.8	.0	1.2	.0	.0	.0	.0		84.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
NW	14.0	.0	.0	.0	.0	.0	.0	14.0	.0	.0	.0	.0	9.3	.0		76.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	4.8	.0	4.8	.0	.0	.0	.0	9.5	.0	9.5	.0	.0	.0	.0		81.0
TOT PCT	5.1	1.9	.8	.0	.0	.0	.0	7.8	.0	5.8	.0	.0	.4	.0		86.4
TOT OBS:	257															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00609	8.5	4.2	1.4	.0	.0	.0	.0	14.1	.0	.0	.0	.0	.0	.0		85.9
06209	6.3	2.5	1.3	.0	.0	.0	.0	10.1	.0	.0	.0	.0	.0	.0		89.9
12615	1.6	.0	.0	.0	.0	.0	.0	1.6	.0	8.2	.0	.0	.0	.0		90.2
18621	5.6	.0	.0	.0	.0	.0	.0	5.6	.0	20.4	.0	.0	1.9	.0		74.1
TOT PCT	5.7	1.9	.8	.0	.0	.0	.0	8.9	.0	6.0	.0	.0	.4	.0		85.7
TOT OBS:	265															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	1.3	.6	.0	.0	.0		3.1	6.7	2.6	2.9	5.0	6.0	1.0	.0	.0	1.4
NE	.4	3.3	.9	.0	.0	.0		4.6	7.9	1.0	5.9	4.7	5.0	.1	12.5	6.7	5.8
E	1.6	13.4	2.8	.1	.0	.0		17.9	7.5	16.8	26.5	22.4	16.4	14.8	12.5	13.7	15.2
SE	2.7	25.5	4.4	.1	.0	.0		34.7	8.0	38.0	30.9	35.6	34.3	33.9	37.5	36.7	26.8
S	3.1	10.8	1.6	.1	.0	.0		15.6	6.5	23.1	13.2	11.9	15.7	12.2	25.0	17.3	17.4
SW	1.1	7.3	.8	.0	.0	.0		9.2	6.4	9.4	11.8	6.5	5.2	8.4	12.5	13.0	16.7
W	.5	2.2	.2	.0	.0	.0		3.1	5.8	1.7	.0	2.6	3.7	4.1	.0	3.3	5.1
NW	1.5	2.0	.3	.0	.0	.0		3.8	5.6	2.6	2.9	3.1	6.7	6.1	.0	2.7	2.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.2							8.2	.0	4.8	5.9	8.2	6.0	15.3	.0	6.7	8.7
TOT OBS	132	424	99	2	0	0	646		6.7	104	17	208	67	98	8	75	69
TOT PCT	20.4	65.6	15.6	.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	1.7	1.2	.2	.0	.0		3.1	6.7	2.7	5.3	.9	.7
NE	2.2	2.0	.3	.0	.0		4.6	7.9	1.7	5.0	4.7	6.3
E	8.7	8.9	.4	.0	.0		17.9	7.5	18.2	20.9	14.6	14.4
SE	14.2	19.3	1.2	.0	.0		34.7	8.0	37.0	35.3	34.2	31.9
S	9.1	6.2	.2	.0	.0		15.6	6.5	21.7	12.8	13.2	17.4
SW	5.8	3.4	.0	.0	.0		9.2	6.4	9.7	6.2	8.7	14.8
W	2.0	1.0	.0	.0	.0		3.1	5.8	1.4	2.9	3.8	4.2
NW	2.4	1.4	.0	.0	.0		3.8	5.6	2.7	4.0	5.7	2.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	8.2						8.2	.0	5.0	7.6	14.2	7.6
TOT OBS	350	281	15	0	0	646		6.7	121	273	106	144
TOT PCT	54.2	43.5	2.3	.0	.0		100.0		100.0	100.0	100.0	100.0

MAY

PERIOD: (PRIMARY) 1919-1972
(OVERALL) 1958-1972

AREA 0009 KARIMATA STRAIT
1.85 108.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00-03	5.0	10.7	65.3	19.0	.0	.0	.0	7.5	100.0	121
06-09	7.5	13.5	65.1	13.1	.7	.0	.0	6.6	100.0	275
12-15	5.2	13.2	67.3	10.4	.0	.0	.0	5.8	100.0	106
18-21	7.6	10.4	69.4	12.5	.0	.0	.0	6.7	100.0	144
***	43	79	424	88	2	0	0	6.7		646
PCT	6.2	12.2	65.6	13.6	.3	.0	.0		100.0	

TABLE 5

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

WIND DIR	0	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.5	.0	.5	.		7.0
NE	1.3	.8	1.3	.3		4.5
E	3.9	3.4	4.4	1.8		4.6
SE	3.9	13.8	15.7	2.3		4.8
S	2.6	4.7	4.2	2.9		4.6
SW	.6	.8	4.1	.3		5.4
W	.0	1.3	1.9	1.1		5.7
NW	.0	1.3	2.1	.6		5.5
VRB	.0	.	.0	.0		.0
CALM	1.9	3.9	3.9	2.6		4.6
*** BD	22	48	54	27	194	4.9
*** PCT	1.3	3.2	41.6	3.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >6/8) 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	.0	.0	.0	.0	.0	.0	.5	
NE	.0	.0	.5	.6	.0	.0	.6	.0	.0	.0	2.8	
E	.5	.0	.6	1.3	2.3	.5	.0	.0	.0	.0	12.3	
SE	.0	.0	.0	7.6	3.1	2.8	.0	.0	.0	.6	26.6	
S	.0	.0	1.3	.6	1.1	1.1	.0	.0	.0	.0	11.2	
SW	.0	.0	.0	.0	.6	.3	.0	.0	.0	.0	4.9	
W	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	3.2	
NW	.0	.0	.0	.0	.6	.6	.0	.0	.0	.4	7.1	
VRB	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.6	1.9	.6	.0	.0	.0	.0	9.1	
*** BD	1	0	4	9	15	10	1	0	0	2	112	154
*** PCT	.6	.0	2.6	5.8	9.7	6.5	.6	.0	.0	1.3	72.7	100.0

TABLE 7

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

CEILING FEET	VSBY (KM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >500M	* OR >0
* OR >6500	.6	1.3	1.9	1.3	1.3	1.3	1.3	1.3
* OR >5000	.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3
* OR >3500	.3	1.9	1.9	1.9	1.9	1.9	1.9	1.9
* OR >2000	5.1	8.3	8.3	9.0	9.0	9.0	9.0	9.0
* OR >1000	11.5	17.3	17.3	17.9	18.6	18.6	18.6	18.6
* OR >600	14.7	22.4	23.1	23.7	24.4	24.4	24.4	24.4
* OR >300	16.7	25.0	25.6	26.3	26.9	26.9	26.9	26.9
* OR >150	16.7	25.0	25.6	26.3	26.9	26.9	26.9	26.9
* OR >0	16.7	25.6	26.3	26.9	27.6	27.6	27.6	27.6
TOTAL	26	40	41	42	43	43	43	43

TOTAL NUMBER OF OBS: 156 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
1.9	15.4	22.2	21.6	11.1	6.2	4.3	8.6	8.0	.6	162

MAY

PERIOD: (PRIMARY) 1919-1972
(OVER-ALL) 1858-1972

AREA 0009 KARIMATA STRAIT
1.8S 108.0E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	
1<2	PCP	.0	.0	.3	.1	.0	.0	.0	.0	.0	.0	.4	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.3	.1	.0	.0	.0	.0	.0	.0	.4	
2<5	PCP	.2	.2	.0	.0	.4	.0	.0	.0	.0	.0	.8	
	NO PCP	.0	.0	.4	.8	.6	.2	.4	.0	.0	.0	2.3	
	TOT %	.2	.2	.4	.8	1.0	.2	.4	.0	.0	.0	3.1	
5<10	PCP	.6	.0	.8	.8	.0	.4	.0	.2	.0	.4	3.1	
	NO PCP	.8	.0	2.3	7.2	3.1	2.1	.0	1.6	.0	1.2	18.3	
	TOT %	1.4	.0	3.1	8.0	3.1	2.8	.0	1.8	.0	1.6	21.4	
10+	PCP	.0	.1	.7	.5	.7	.8	.0	.4	.0	.0	3.1	
	NO PCP	.7	4.8	11.7	27.8	11.8	4.4	2.2	2.0	.0	6.2	71.6	
	TOT %	.7	4.9	12.4	28.3	12.5	5.2	2.2	2.4	.0	6.2	74.7	
	TOT OBS												257
	TOT PCT	2.2	5.1	16.1	37.2	16.5	7.0	2.6	4.2	.0	8.2	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	.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	
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	.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	
2<5	0-3	.0	.0	.3	.0	.5	.1	.0	.0	.0	.2	1.0	
	4-10	.1	.0	.1	.4	.5	.1	.3	.1	.0		1.6	
	11-21	.3	.3	.0	.3	.0	.0	.0	.0	.0		.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.4	.3	.4	.6	.9	.1	.3	.1	.0	.3	3.4	
5<10	0-3	.5	.0	.5	.0	.0	.0	.0	.5	.0	1.0	2.6	
	4-10	.3	.0	1.2	4.9	1.8	1.4	.0	.3	.0		9.9	
	11-21	.1	.0	.6	1.2	.3	.3	.0	.4	.0		2.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	9	.0	2.3	6.1	2.1	1.7	.0	1.2	.0	1.0	15.3	
10+	0-3	.4	.6	1.2	2.5	3.4	1.2	.5	.9	.0	7.0	17.7	
	4-10	1.1	2.9	9.4	21.4	9.0	4.5	1.6	1.9	.0		51.7	
	11-21	.0	.2	2.9	6.5	1.1	.0	.3	.0	.0		10.9	
	22+	.0	.1	.2	.0	.0	.0	.0	.0	.0		.3	
	TOT %	1.5	3.8	13.6	30.3	13.5	5.6	2.4	2.8	.0	7.0	80.5	
	TOT OBS												985
	TOT PCT	2.8	4.0	16.5	37.1	16.5	7.5	2.7	4.4	.0	8.6	100.0	

MAY

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1858-1972

AREA 0009 KARIMATA STRAIT
1.8S 108.0E

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	2.3	4.5	6.8	6.8	.0	.0	.0	.0	20.5	79.5	44
06E09	.0	.0	2.1	6.5	14.0	12.0	.0	.0	.0	.0	37.5	62.5	48
12E15	.0	.0	.0	2.9	8.8	2.9	2.9	.0	.0	2.9	20.0	80.0	35
18E21	3.0	.0	6.1	6.1	6.1	3.0	.0	.0	.0	3.0	27.3	72.7	33
TOT	1	0	4	9	15	11	1	0	0	1	43	117	160
PCT	.6	.0	2.5	5.6	9.4	6.9	.6	.0	.0	1.3	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
00E03	.0	.0	.0	4.0	13.0	83.0	100
06E09	.0	.8	.8	3.1	13.8	81.5	130
12E15	1.3	.0	.0	5.3	21.1	72.4	76
18E21	.0	.0	.0	1.2	19.8	79.1	86
TOT	1	1	1	13	64	312	392
PCT	.3	.3	.3	3.3	16.3	79.6	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 <490YD	<600 <1	<1000 <5	1000+ AND5+	NM <5/8 AND 5+	TOTAL OBS
00E03	.0	2.3	7.0	14.0	79.1	43
06E09	.0	4.3	14.9	23.4	61.7	47
12E15	.0	.0	3.0	18.2	78.8	33
18E21	3.0	9.1	15.2	12.1	72.7	33
TOT	1	6	16	27	113	156
PCT	.6	3.8	10.3	17.3	72.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.0	.0	.0	.0	2	1.1
85/89	.0	.0	.0	.0	2.8	16.4	5.6	.0	45	25.4
80/84	.0	.0	.0	.0	.8	24.3	39.0	5.6	123	69.5
75/79	.0	.0	.0	.0	.0	.0	2.3	1.7	7	4.0
TOTAL	0	0	0	0	7	73		14	177	100.0
PCT	.0	.0	.0	.0	4.0	41.2	46.9	7.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.6	.6	.0	.0	.0	.0	.0	.0
.6	.7	6.1	10.2	3.1	.7	.6	1.1	.0	2.3
.4	3.4	9.2	26.7	11.9	6.5	2.3	1.8	.0	7.3
.6	.1	1.0	.1	1.0	.1	.4	.0	.0	.6
1.6	4.2	16.8	37.7	16.0	7.3	3.2	3.0	.0	10.2

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	94	90	86	83	78	72	72	83.0	119
06E09	95	91	89	85	79	77	72	84.4	264
12E15	94	88	86	83	80	72	72	83.1	102
18E21	86	85	84	83	80	76	76	82.4	143
TOT	94	90	88	83	79	77	72	83.5	628

TABLE 16

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	41.3	45.7	10.9	81	45
06E09	.0	.0	6.6	50.6	37.7	4.9	78	81
12E15	.0	.0	2.6	42.1	47.4	7.9	80	38
18E21	.0	.0	2.6	23.1	61.5	12.8	83	39
TOT	0	0	7	75	86	16	80	184

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1858-1972

AREA 0609 KARIMATA STRAIT
1.8S 108.0E

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	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	.0	.0	.9	2	.0	.9
7/8	.0	.0	.0	.0	.0	.0	.4	1	.0	.4
4	.0	.0	.0	1.3	.0	.9	.0	5	.0	2.2
3	.0	.0	.0	.9	1.7	.0	.0	6	.0	2.6
2	.0	.0	.0	1.7	1.7	.0	.0	8	.0	3.5
1	.0	.0	.0	2.2	7.0	.0	.0	21	.0	9.2
0	.0	.0	.0	13.9	6.5	.0	.0	46	.0	20.1
-1	.0	.0	.0	17.2	8.1	.0	.0	42	.0	18.3
-2	.	.0	.0	10.9	1.3	.0	.0	28	.0	12.3
-3	.0	.0	.9	10.9	.4	.0	.0	27	.0	11.8
-4	.0	.0	.4	7.0	.9	.0	.0	19	.0	8.3
-5	.0	.0	.9	2.6	.4	.0	.0		.0	4.0
-6	.0	.0	1.7	.4	.0	.0	.0	5	.0	2.2
-7/-8	.0	.0	1.3	.4	.0	.0	.0	4	.0	1.7
-9/-10	.4	.0	.4	.4	.0	.0	.0	3	.0	1.3
-11/-13	.0	.0	.0	.0	.0	.0	.0	2	.0	.9
TOTAL	2		13		60		3		0	229
		.5		14A		2		229		
PCT	.9	.5	5.7	63.9	26.2	.9	1.3	100.0		100.0

PERIOD: (OVER-ALL) 1943-1972

TABLE 15

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

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	1.9	1.0	.0	.0	.0	.0	1.9
1-2	.0	2.9	.0	.0	.0	.0	2.9
3-4	.0	1.0	.2	.2	.0	.0	1.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	4.8	.2	.2	.0	.0	6.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.7	1.4	.7	.0	.0	.0	3.8
1-2	.7	10.5	1.9	.0	.0	.0	13.1
3-4	.0	3.1	1.7	.7	.0	.0	5.5
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	2.4	15.0	5.0	.7	.0	.0	23.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	2.4	.2	.0	.0	.0	2.9
1-2	.2	19.3	2.9	.0	.0	.0	22.4
3-4	.0	8.7	1.6	.0	.0	.0	10.3
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	.5	28.3	11.9	.0	.0	.0	40.7

KAY

TABLE 16 (CONT)

1.8S 108.0E

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	1.0	.7	.0	.0	.0	.0	1.7	.0	.2	.0	.0	.0	.0	.2
1-2	.0	7.1	.0	.0	.0	.0	7.1	.0	2.1	.0	.0	.0	.0	2.1
3-4	.0	1.7	.0	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	9.5	.0	.0	.0	.0	10.5	.0	2.4	.0	.0	.0	.0	2.4

				W											TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	1.0	.0	.0	.0	.0	.0	1.0	.0	1.9	.0	.0	.0	.0	1.9	
1-2	.0	1.0	.0	.0	.0	.0	1.0	.0	.0	1.0	.0	.0	.0	1.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.0	1.0	.0	.0	.0	.0	1.9	.0	1.9	1.0	.0	.0	.0	2.9	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	17.0	7.5	.9	.0	.0	.0	25.5	
1-2	.9	42.5	5.7	.0	.0	.0	49.1	
3-4	.0	13.2	5.7	.0	.0	.0	19.8	
5-6	.0	.0	5.7	.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	
								106
TOT PCT	17.9	63.2	17.9	.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	6.9	43.1	18.5	4.6	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	98	2
6-7	.8	3.1	.8	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	3
8-9	.0	.8	.0	.0	.8	.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	
INDEF	14.6	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	0
TOTAL	29	62	26	9	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	130	2
PCT	22.3	47.7	20.0	6.9	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1858-1972

AREA 0009 KARIMATA STRAIT
1.95 108.1E

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 BLWG	DUST SNOW	NO SIG WEA
N	16.7	.0	.0	.0	.0	.0	.0	16.7	.0	.0	.0	.0	.0	.0		83.3
NE	.0	.0	10.5	.0	.0	.0	.0	10.5	.0	10.5	.0	.0	.0	.0		78.9
E	5.9	.0	4.3	.0	.0	.0	.0	8.0	.0	2.1	.0	.0	.0	.0		89.9
SE	.5	.6	.0	.0	.0	.0	.0	1.1	3.9	4.7	.0	.0	.0	.0		90.3
S	1.5	.0	.0	.0	.0	.0	.0	1.5	7.3	7.3	.0	.0	.0	.0		83.9
SW	6.2	.0	8.2	.0	.0	.0	.0	16.5	12.2	18.4	.0	.0	.0	.0		53.1
W	28.6	.0	.0	.0	.0	.0	.0	28.6	.0	.0	.0	.0	.0	.0		71.4
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	5.9	.0	.0	.0	.0	.0	.0	5.9	5.9	23.5	.0	.0	.0	.0		64.7
TOT PCT	2.8	.3	1.4	.0	.0	.0	.0	4.2	3.8	8.3	.0	.0	.0	.0		85.7
TOT OBS:	287															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	2.7	.0	2.7	.0	.0	.0	.0	4.1	4.1	1.4	.0	.0	.0	.0		90.4
06609	2.6	1.3	.0	.0	.0	.0	.0	3.8	3.8	.0	.0	.0	.0	.0		92.3
12615	2.9	.0	1.5	.0	.0	.0	.0	4.4	1.5	16.2	.0	.0	.0	.0		77.9
18621	2.6	.0	1.3	.0	.0	.0	.0	3.8	5.1	12.8	.0	.0	.0	.0		78.2
TOT PCT	2.7	.3	1.3	.0	.0	.0	.0	4.0	3.7	7.4	.0	.0	.0	.0		84.8
TOT OBS:	297															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	1.2	.9	.0	.0	.0		2.6	6.0	1.3	.0	2.1	4.7	1.3	.0	2.7	2.7
NE	.7	3.2	.6	.0	.0	.0		4.4	6.7	3.1	.0	5.6	5.4	3.3	20.0	2.7	4.7
E	1.5	13.7	5.7	.1	.0	.0		21.1	8.7	22.5	25.0	24.2	24.7	19.2	25.0	14.1	17.3
SE	3.6	26.6	15.2	.6	.0	.0		45.0	9.4	51.9	53.5	46.5	35.3	41.5	30.0	46.6	41.3
S	1.3	10.1	2.3	.0	.0	.0		13.7	7.6	14.8	21.4	10.6	9.2	16.3	5.0	17.2	16.7
SW	.4	3.4	.4	.0	.0	.0		4.1	6.7	2.3	.0	2.6	8.2	7.3	5.0	4.9	.7
W	.1	.8	.6	.0	.0	.0		1.5	9.0	.0	.0	.5	2.2	1.7	15.0	1.8	4.0
NW	.4	1.1	.3	.0	.0	.0		1.8	7.2	1.7	.0	2.3	2.2	2.1	.0	.4	2.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.3							6.3	.0	2.5	.0	5.5	5.4	7.5	.0	9.8	10.7
TOT OBS	106	456	199	5	0	0	760		8.1	120	14	217	92	120	10	112	75
TOT PCT	13.9	60.0	26.4	.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	1.4	.7	.0	.0	.0		2.2	6.0	1.1	2.8	1.2	2.7
NE	2.5	1.8	.1	.0	.0		4.4	6.7	2.8	5.6	4.6	3.5
E	7.7	12.3	1.0	.1	.0		21.1	8.7	22.8	24.4	19.6	15.4
SE	15.0	26.0	4.0	.0	.0		45.0	9.4	52.1	44.1	40.6	44.4
S	6.3	6.9	.5	.0	.0		13.7	7.6	15.5	10.2	15.4	17.0
SW	2.7	1.3	.1	.0	.0		4.1	6.7	2.1	4.3	7.1	3.2
W	.7	.7	.1	.0	.0		1.5	9.0	.0	1.0	2.7	2.7
NW	.7	1.1	.0	.0	.0		1.8	7.2	1.5	2.3	1.9	1.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	6.3						6.3	.0	2.2	5.5	6.9	10.2
TOT OBS	339	386	44	1	0	760		8.1	134	359	130	187
TOT PCT	43.3	50.8	5.8	.1	.0		100.0		100.0	100.0	100.0	100.0

JUNE

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1858-1972

AREA 0009 KARIMATA STRAIT
1.9S 108.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00603	2.2	9.0	66.4	20.9	1.5	.0	.0	7.9	100.0	134
06609	5.5	8.1	56.6	29.1	.6	.0	.0	8.4	100.0	309
12615	6.9	6.2	59.2	26.9	.3	.0	.0	8.3	100.0	130
18621	10.2	7.0	61.5	21.4	.0	.0	.0	7.6	100.0	187
TOT	48	58	456	193	5	0	0	8.1		760
PCT	6.3	7.6	60.0	25.4	.7	.0	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	1.0	.5		6.6
NE	.0	.1	1.7	.5		6.3
E	1.8	5.1	6.9	1.0		4.8
SE	13.7	16.2	22.3	4.8		4.4
S	1.0	4.4	2.3	3.8		5.1
SW	.5	1.2	.5	1.8		5.6
W	.0	.0	.0	.0		.0
NW	.0	.0	1.6	.0		6.3
VAR	.0	.0	.0	.0		.0
CALM	3.1	1.0	1.6	1.6		4.2
TOT OBS	39	54	73	27	193	4.7
TOT PCT	20.2	28.0	37.8	14.0	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.5	
NE	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	1.8	
E	.0	.0	.5	.0	.4	1.9	.0	.0	.0	.0	11.0	
SE	.0	.0	.5	3.2	3.8	1.4	.5	.0	.0	.0	47.5	
S	.0	.0	.0	1.0	.8	1.8	.5	.0	.0	.0	7.4	
SW	.0	.0	.0	.0	.3	1.0	.0	.0	.0	.0	2.[illegible]	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	1.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	1.0	1.0	.0	.5	.0	.0	.0	.0	4.7	
TOT OBS	0	0	4	13	10	16	2	0	0	0	148	193
TOT PCT	.0	.0	2.1	6.7	5.2	8.3	1.0	.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 >500YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
* OR >2000	8.5	9.0	9.0	9.0	9.0	9.0	9.0	9.0
* OR >1000	13.4	13.9	13.9	13.9	13.9	13.9	13.9	13.9
* OR >600	19.4	20.9	20.9	20.9	20.9	20.9	20.9	20.9
* OR >300	20.4	22.9	22.9	22.9	22.9	22.9	22.9	22.9
* OR >150	20.4	22.9	22.9	22.9	22.9	22.9	22.9	22.9
* OR > 0	20.4	22.9	22.9	22.9	22.9	22.9	22.9	22.9
TOTAL	41	46	46	46	46	46	46	46

TOTAL NUMBER OF OBS: 201 PCT FREQ NH <5/8: 77.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
9.8	17.0	23.6	17.5	14.2	7.5	6.1	3.3	7.1	.0	212

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1858-1972

AREA 0009 KARIMATA STRAIT
1.9S 108.1E

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	.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	.3	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	1.0	
	TOT %	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	1.0	
5<10	PCP	.3	.3	.7	.5	.2	.7	.0	.0	.0	.0	2.8	
	NO PCP	.7	.0	1.9	7.6	.3	.7	.0	.0	.0	1.4	12.5	
	TOT %	1.0	.3	2.6	8.1	.4	1.4	.0	.0	.0	1.4	15.3	
10+	PCP	.0	.0	.6	.1	.0	.0	.0	.0	.0	.3	1.0	
	NO PCP	1.0	3.0	13.2	44.6	11.5	2.9	.9	1.0	.0	4.9	82.2	
	TOT %	1.0	3.0	13.8	44.7	11.5	2.9	.9	1.0	.0	4.5	83.3	
	TOT OBS												287
	TOT PCT	2.1	3.3	16.4	53.6	11.9	4.3	1.2	1.0	.0	5.9	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	.6	.1	.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	.6	.1	.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	.2	.0		.2	
	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	.2	.0	.0	.5	
2<5	0-3	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.0	.2	.5	.0	.0	.0	.0	.0		.7	
	11-21	.0	.0	.0	.5	.0	.0	.0	.0	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.2	1.2	.0	.0	.0	.0	.0	.0	1.4	
5<10	0-3	.2	.0	.1	.2	.2	.0	.0	.0	.0	.9	1.6	
	4-10	.3	.1	.9	1.0	.1	.7	.0	.0	.0		3.2	
	11-21	.2	.2	1.0	4.4	.1	.2	.0	.0	.0		6.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.8	.3	2.1	5.6	.4	.9	.0	.0	.0	.9	11.1	
10+	0-3	.3	.7	1.9	2.5	1.3	.5	.0	.2	.0	5.8	13.2	
	4-10	.9	2.1	11.2	24.4	8.9	3.2	.5	.5	.0		51.7	
	11-21	.0	.4	4.2	13.4	2.1	.1	.2	.2	.0		20.6	
	22+	.0	.0	.2	.5	.0	.0	.0	.0	.0		.7	
	TOT %	1.3	3.2	17.4	40.8	12.3	3.9	.7	.9	.0	5.8	86.3	
	TOT OBS												431
	TOT PCT	2.1	3.6	19.7	48.1	12.8	4.8	.9	1.2	.0	6.7	100.0	

JUNE

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1858-1972

AREA 0009 KARIMATA STRAIT
1.9S 108.1E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	80 UP	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00603	.0	.0	1.9	3.8	9.4	5.7	1.9	.0	.0	.0	22.6	77.4	53
06609	.0	.0	1.8	7.0	1.8	10.5	.0	.0	.0	.0	21.1	78.9	57
12615	.0	.0	2.2	4.3	6.5	4.3	2.2	.0	.0	.0	19.6	80.4	46
18621	.0	.0	2.0	11.8	2.0	9.8	.0	.0	.0	.0	25.5	74.5	51
TOT	0	0	4	14	10	16	2	0	0	0	46	161	207
PCT	.0	.0	1.9	6.8	4.8	7.7	1.0	.0	.0	.0	22.2	77.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	2.0	.0	.0	.0	8.9	89.1	101
06609	.7	.0	.0	1.5	11.1	86.7	135
12615	.0	.0	1.2	1.2	11.8	85.9	85
18621	.0	.0	.8	2.5	11.7	85.0	120
TOT	3	0	2	6	46	382	441
PCT	.7	.0	.5	1.4	10.9	86.6	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 <500	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00603	.0	2.0	6.1	18.4	73.5	49
06609	.0	1.8	6.8	12.3	78.9	57
12615	.0	2.2	6.5	13.0	80.4	46
18621	.0	2.0	18.4	12.2	69.4	49
TOT	0	4	20	28	153	201
PCT	.0	2.0	10.0	13.9	76.1	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	.4	.4	.0	.0	2	.9
85/89	.0	.0	.0	.0	1.3	8.0	2.7	.4	28	12.4
80/84	.0	.0	.0	.0	2.2	40.7	34.1	6.2	188	83.2
75/79	.0	.0	.0	.0	.0	.4	2.7	.4	8	3.5
TOTAL	0	0	0	0	9	112	89	16	226	100.0
PCT	.0	.0	.0	.0	4.0	49.6	39.4	7.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.3	.6	.0	.0	.0	.0	.0	.0
	.4	.1	3.7	6.9	1.3	.0	.0	.0	.0	.0
	7.2	2.3	9.6	49.3	9.6	3.0	.0	1.3	.0	5.8
	.0	.0	.3	1.4	.0	.4	.0	.0	.0	1.3
	2.7	2.4	13.9	58.2	11.0	3.4	.0	1.3	.0	7.1

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	88	87	86	83	80	79	78	82.6	134
06609	93	92	88	83	79	75	74	83.7	308
12615	87	86	85	82	79	76	77	82.5	131
18621	86	85	84	82	79	75	75	81.9	184
TOT	93	90	87	83	79	76	74	82.9	757

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	.0	5.7	41.5	45.3	7.5	80	53
06609	.0	.0	8.1	58.1	27.4	6.5	78	62
12615	.0	.0	1.9	53.7	38.9	5.6	80	54
18621	.0	.0	.0	43.1	47.7	9.2	81	65
TOT	0	0	9	115	93	17	80	234

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1858-1972

AREA 0009 KAPIMATA STRAIT
1.9S 106.1E

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	>92	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.8	.0	.4	3	.0	1.2
6	.0	.0	.0	.8	.0	.0	2	.0	.8
5	.0	.0	.4	.0	.8	.0	3	.0	1.2
4	.0	.0	.4	.4	.0	.0	2	.0	.8
3	.0	.0	.4	1.2	.0	.0	4	.0	1.6
2	.0	.0	2.4	3.3	.0	.0	14	.0	5.7
1	.0	.0	3.3	2.0	.0	.0	13	.0	5.3
0	.0	.0	9.4	3.3	.0	.0	31	.0	12.7
-1	.0	.8	16.7	2.0	.0	.0	48	.0	19.6
-2	.0	.4	17.6	.8	.0	.0	46	.0	18.8
-3	.0	2.0	11.4	.4	.0	.0	34	.0	13.9
-4	.0	2.9	6.5	.0	.0	.0	23	.0	9.4
-5	.4	2.0	2.9	.0	.0	.0	13	.0	5.3
-6	.0	.0	.8	.0	.0	.0	2	.0	.8
-7/-8	.0	1.6	.8	.0	.0	.0	6	.0	2.4
-9/-10	.0	.4	.0	.0	.0	.0	1	.0	.4
TOTAL	1		179		2			0	245
		25		37		1	245		
PCT	.4	10.2	73.1	15.1	.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	.7	.0	.0	.0	.0	.0	.7
1-2	.7	.7	.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	.7	.0	.0	.0	.0	2.2

NE

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

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.8	.0	.0	.0	.0	1.8
1-2	.0	3.5	.7	.0	.0	.0	4.2
3-4	.0	3.3	2.6	.0	.0	.0	5.8
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	.5	.0	.0	.5
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.6	6.9	.5	.0	.0	16.1

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	.7	18.1	5.1	.0	.0	.0	23.9
3-4	.0	4.9	13.9	.0	.0	.0	18.8
5-6	.0	.7	6.6	.7	.0	.0	8.0
7	.0	.0	2.9	.0	.0	.0	2.9
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.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	.7	26.1	28.5	.9	.0	.0	56.2

PERIOD: (OVER-ALL) 1963-1972

JUNE

TABLE 18 (CONT)

AREA 0009 KARIMATA STRAIT
1.9S 108.1E

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	.7	.0	.0	.0	.0	.7	.0	.7	.0	.0	.0	.0	.7
1-2	.5	3.3	.0	.0	.0	.0	3.8	.2	3.6	.0	.0	.0	.0	3.8
3-4	.0	1.3	2.6	.0	.0	.0	3.8	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	1.5	.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	.5	5.3	4.0	.0	.0	.0	9.9	.2	4.4	.0	.0	.0	.0	4.6

	W							WW							
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	.0	.0	.0	1.5	
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	.7	.7	.0	.0	.0	1.5	91.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.9	5.6	.0	.0	.0	.0	17.5	
1-2	3.5	29.4	6.3	.0	.0	.0	39.2	
3-4	.0	9.1	18.2	.0	.0	.0	27.3	
5-6	.0	.7	9.8	.7	.0	.0	11.2	
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	.7	.0	.0	.7	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	15.4	44.8	38.5	1.4	.0	.0	100.0	143

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	28.9	21.4	10.2	2.7	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	133	3
6-7	.0	2.7	3.7	5.9	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	4
8-9	.0	.0	.5	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	4
10-11	.0	1.1	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	2
12-13	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
>13	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDET	9.1	1.1	1.1	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	1
TOTAL	30	63	51	33	7	2	0	1	0	0	0	0	0	0	0	0	0	0	0	187	3
PCT	16.0	33.7	27.3	17.6	3.7	1.1	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1907-1972
(OVER-ALL) 1855-1972

AREA 0009 KARIMATA STRAIT
1.8S 108.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NE	.0	.0	16.7	.0	.0	.0	.0	16.7	.0	.0	.0	.0	.0	.0	83.3
E	.0	2.4	1.2	.0	.0	.0	.0	3.6	1.8	4.8	.0	.0	.0	.0	89.8
SE	.5	.0	.3	.0	.0	.0	.0	.8	.7	1.6	.0	.0	.0	.0	96.9
S	1.1	.0	2.2	.0	.0	.0	.0	3.3	2.2	.0	.0	.0	.0	.0	94.4
SW	45.5	18.2	18.2	.0	.0	.0	.0	63.6	.0	.0	.0	.0	.0	.0	36.4
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	33.3	33.3	.0	.0	.0	.0	.0	66.7	.0	.0	.0	.0	.0	.0	33.3
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	2.0	1.0	1.4	.0	.0	.0	.0	4.1	1.0	1.7	.0	.0	.0	.0	93.2
TOT OBS:	295														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.4	.0	1.4	.0	.0	.0	.0	2.9	2.9	.0	.0	.0	.0	.0	94.3
06&09	1.2	2.5	.0	.0	.0	.0	.0	3.7	1.2	.0	.0	.0	.0	.0	95.1
12&15	1.4	.0	1.4	.0	.0	.0	.0	2.7	.0	4.1	.0	.0	.0	.0	93.2
18&21	4.1	1.4	2.7	.0	.0	.0	.0	6.8	.0	2.7	.0	.0	.0	.0	90.4
TOT PCT	2.0	1.0	1.3	.0	.0	.0	.0	4.0	1.0	1.7	.0	.0	.0	.0	93.3
TOT OBS:	298														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	.0	.0	.0	.0		.3	4.5	.0	.0	.3	1.1	.0	3.3	.0	.0
NE	.9	1.6	.4	.0	.0	.0		2.9	7.1	2.9	.0	3.0	2.7	2.5	3.3	4.2	.6
E	1.4	10.8	5.9	.1	.0	.0		18.1	9.2	16.0	6.7	20.3	17.6	17.8	13.3	19.0	19.2
SE	1.8	31.1	22.0	.8	.0	.0		55.7	10.5	63.5	73.3	55.9	53.6	56.0	58.3	47.9	50.9
S	1.9	9.6	3.4	.1	.0	.0		15.0	8.3	13.5	6.7	12.9	16.8	11.8	18.3	22.7	17.2
SW	.1	1.9	.7	.0	.0	.0		2.8	9.1	2.0	.0	1.8	3.3	4.5	3.3	2.1	4.1
W	.3	.9	.5	.0	.0	.0		1.7	7.7	.8	10.0	2.0	1.6	1.7	.0	.0	3.5
NW	.4	.6	.5	.0	.0	.0		1.5	9.0	.4	3.3	1.5	2.2	1.7	.0	1.0	2.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.0							2.0	.0	.8	.0	1.5	1.1	4.1	.0	3.1	2.3
TOT OBS	67	422	248	7	0	0	744		9.5	122	15	198	91	121	15	96	86
TOT PCT	9.0	56.7	33.3	.9	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.2	.1	.0	.0	.0		.3	4.5	.0	.5	.4	.0
NE	1.3	1.4	.1	.0	.0		2.9	7.1	2.6	3.5	2.6	2.5
E	6.0	10.9	1.2	.1	.0		18.1	9.2	15.0	19.5	17.3	19.1
SE	11.2	37.3	6.9	.2	.0		55.7	10.5	64.6	55.2	56.3	49.3
S	5.4	9.1	.5	.0	.0		15.0	8.3	12.8	14.1	12.5	20.1
SW	.7	1.9	.1	.0	.0		2.8	9.1	1.8	2.2	4.4	3.0
W	.7	1.0	.0	.0	.0		1.7	7.7	1.8	1.9	1.5	1.6
NW	.7	.5	.3	.0	.0		1.5	9.0	.7	1.7	1.5	1.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.0						2.0	.0	.7	1.4	3.7	2.7
TOT OBS	211	463	68	2	0	744		9.5	137	289	136	182
TOT PCT	28.4	62.2	9.1	.3	.0		100.0		100.0	100.0	100.0	100.0

JULY

PERIOD: (PRIMARY) 1907-1972
(OVER-ALL) 1855-1972

AREA 0009 KARIMATA STRAIT
1.8S 108.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
				WIND SPEED (KNOTS)						
00603	.7	5.8	52.6	40.1	.7	.0	.0	10.1	100.0	137
06609	1.4	9.3	55.7	32.2	1.4	.0	.0	9.6	100.0	289
12615	3.7	5.9	57.4	31.6	1.5	.0	.0	9.4	100.0	136
.8621	2.7	4.9	61.0	31.3	.0	.0	.0	8.9	100.0	182
TOT	15	52	422	248	7	0	0	9.5		744
PCT	2.0	7.0	56.7	33.3	.9	.0	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.0		.0
NE	.0	1.2	1.8	.0		5.2
E	5.7	2.4	6.4	1.1		3.8
SE	29.3	24.2	16.8	2.3		3.8
S	3.4	3.8	5.2	3.3		5.0
SW	.0	.6	.0	1.2		6.3
W	.0	.6	1.2	.0		5.0
NW	.0	.0	.6	1.2		7.6
VAR	.0	.0	.0	.0		.0
CALM	.0	.6	.0	.6		6.0
TOT OBS	37	56	56	16	165	4.2
TOT PCT	22.4	33.9	33.9	9.7	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 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	1.2	.0	.0	.0	1.8	
E	.0	.0	.0	.6	1.5	1.7	.5	.0	.0	.0	12.0	
SE	.0	.0	.0	2.0	2.9	2.9	.8	.0	.0	.0	50.8	
S	.6	.0	.0	1.1	1.7	2.1	.0	.0	.0	.0	10.0	
SW	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.6	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	
NW	.0	.0	.6	.0	.6	.6	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.6	
TOT OBS	1	0	1	7	13	11	4	0	0	0	128	165
TOT PCT	.6	.0	.6	4.2	7.9	6.7	2.4	.0	.0	.0	77.6	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 >500YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
* OR >2000	8.4	9.0	9.0	9.0	9.0	9.0	9.0	9.0
* OR >1000	15.0	16.2	16.8	16.8	16.8	16.8	16.8	16.8
* OR >600	18.6	20.4	21.0	21.0	21.0	21.0	21.0	21.0
* OR >300	18.6	21.0	21.6	21.6	21.6	21.6	21.6	21.6
* OR >150	18.6	21.0	21.6	21.6	21.6	21.6	21.6	21.6
* OR > 0	18.6	21.6	22.2	22.2	22.2	22.2	22.2	22.2
TOTAL	31	36	37	37	37	37	37	37

TOTAL NUMBER OF OBS: 167 PCT FREQ NM <5/8: 77.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
9.4	18.5	22.5	20.8	11.2	7.9	5.6	3.9	5.6	.6	178

JULY

PERIOD: (PRIMARY) 1907-1972
(OVER-ALL) 1895-1972

AREA 0009 KARIMATA STRAIT
1.8S 108.0E

TABLE 3

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR 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	.7	.0	.0	.0	.0	.7	
	NO PCP	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3	
	TOT %	.0	.0	.0	.0	.3	.7	.0	.0	.0	.0	1.0	
5<10	PCP	.0	.0	.5	.5	.5	.2	.0	.3	.0	.3	2.4	
	NO PCP	.0	.0	1.6	15.0	3.4	.2	1.2	.0	.0	.0	21.4	
	TOT %	.0	.0	2.1	15.5	3.9	.9	1.2	.3	.0	.3	23.7	
10+	PCP	.0	.3	.0	.0	.0	.9	.0	.3	.0	.0	1.0	
	NO PCP	.2	1.7	11.9	47.5	11.0	.5	.7	.3	.0	.3	74.2	
	TOT %	.2	2.0	11.9	47.5	11.0	.8	.7	.7	.0	.3	75.3	
	TOT OBS												295
	TOT PCT	.2	2.0	14.1	63.1	15.3	1.8	1.9	1.0	.0	.7	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.1	.1	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.1	.1	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.5	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.2	.1	.1	.0	.0	.0		.5	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.2	.1	.1	.0	.0	.0	.0	.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.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	.2	.5	.1	.1	.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	.2	.5	.1	.1	.0	.0	.9	
5<10	0-3	.0	.0	.2	.5	.9	.0	.0	.0	.0	.2	1.9	
	4-10	.0	.1	.9	4.5	1.0	.3	.1	.0	.0		7.0	
	11-21	.0	.0	.8	6.3	.9	.3	.8	.3	.0		9.5	
	22+	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	TOT %	.0	.1	1.9	11.4	2.9	.7	.9	.3	.0	.2	18.6	
10+	0-3	.0	.3	.9	1.5	.9	.0	.0	.0	.0	.2	3.9	
	4-10	.1	1.7	8.3	25.7	7.4	.6	.5	.5	.0		44.8	
	11-21	.0	.0	5.3	21.3	3.4	.1	.0	.2	.0		30.4	
	22+	.0	.0	.0	.3	.2	.0	.0	.0	.0		.5	
	TOT %	.1	2.1	14.6	48.8	11.9	.7	.5	.7	.0	.2	79.6	
	TOT OBS												431
	TOT PCT	.1	2.2	16.5	60.7	15.4	2.0	1.5	1.2	.0	.5	100.0	

JULY

PERIOD: (PRIMARY) 1907-1972
(OVER-ALL) 1855-1972

AREA 0009 KARIMATA STRAIT
1.85 108.0E

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
00Z03	2.3	.0	.0	7.0	7.0	11.6	4.7	.0	.0	.0	32.6	67.4	43
06Z09	.0	.0	2.0	5.9	5.9	2.0	.0	.0	.0	.0	15.7	84.3	51
12Z15	.0	.0	.0	.0	8.7	.0	.0	.0	.0	.0	8.7	91.3	46
18Z21	.0	.0	.0	3.0	9.1	15.2	6.1	.0	.0	.0	33.3	66.7	33
TOT	1	0	1	7	13	11	4	0	0	0	37	136	173
PCT	.6	.0	.6	4.0	7.5	6.4	2.3	.0	.0	.0	21.4	78.6	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
00Z03	1.0	1.0	.0	2.0	18.4	77.6	98
06Z09	.0	.0	.0	.0	16.3	83.7	135
12Z15	.0	1.1	.0	.0	15.7	83.1	89
18Z21	.9	.0	.0	1.8	24.1	73.2	112
TOT	2	2	0	4	81	345	434
PCT	.5	.5	.0	.9	18.7	79.5	100.0

TABLE 12

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

HOUR (GMT)	<150 <5OYD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00Z03	2.4	2.4	9.5	23.8	66.7	42
06Z09	.0	2.1	8.3	8.3	83.3	48
12Z15	.0	.0	.0	8.9	91.1	45
18Z21	.0	.0	6.3	28.1	65.6	32
TOT	1	2	10	27	130	167
PCT	.6	1.2	6.0	16.2	77.8	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	.5	.0	.0	.0	.0	1	.5
85/89	.0	.0	.0	.5	2.8	4.6	.9	.0	19	8.8
80/84	.0	.0	.0	.0	2.3	49.3	35.5	5.5	188	86.6
75/79	.0	.0	.0	.0	.0	.0	1.4	1.8	7	3.2
70/74	.0	.0	.0	.0	.0	.0	.5	.5	2	.9
TOTAL	0	0	0	2	11	104	83	17	217	100.0
PCT	.0	.0	.0	.9	5.1	47.9	38.2	7.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0
	.0	.0	1.7	5.5	1.5	.0	.0	.0	.0	.0
	.0	1.9	11.3	56.7	13.6	.9	1.4	.5	.0	.5
	.0	.5	.0	.9	.5	.5	.0	.5	.0	.5
	.0	.0	.0	.0	.5	.0	.0	.5	.0	.0
	.0	2.3	13.0	63.6	16.0	1.4	1.4	1.4	.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
00Z03	86	85	84	82	79	74	74	81.6	137
06Z09	94	90	89	83	79	74	73	83.5	291
12Z15	85	84	84	82	79	75	74	81.8	136
18Z21	87	84	83	81	79	76	72	81.2	183
TOT	94	89	86	82	79	74	72	82.3	747

TABLE 16

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	44.0	44.0	8.0	81	50
06Z09	.0	3.3	13.1	50.8	27.9	4.9	77	61
12Z15	.0	.0	1.8	54.5	38.2	5.5	80	55
18Z21	.0	.0	1.9	39.6	45.3	13.2	82	53
TOT	0	2	12	104	84	17	80	219

JULY

PERIOD: (PRIMARY) 1957-1972
(OVERALL) 1955-1972

AREA 0009 MARIMATA STRAIT
1.8S 108.0E

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	# FOG	% FOG
9/10	.0	.0	.0	.0	.0	.4	1	.0	.4
6	.0	.0	.4	.4	.4	.0	3	.0	1.2
5	.0	.0	.0	.0	1.2	.0	3	.0	1.2
4	.0	.0	.0	1.6	.0	.0	4	.0	1.6
3	.0	.0	.4	1.6	.0	.0	5	.0	1.9
2	.0	.4	3.5	2.3	.0	.0	14	.0	5.2
1	.	.8	6.6	1.2	.4	.0	2	.0	8.7
0	.0	.8	23.6	.8	.0	.0	65	.0	25.2
-1	.0	2.3	16.3	.8	.0	.0	55	.0	19.4
-2	.0	3.5	12.8	.4	.0	.0	43	.0	16.7
-3	.0	.8	5.4	.0	.0	.0	16	.0	6.2
-4	.0	1.2	1.9	.0	.0	.0	8	.0	3.1
-5	.0	1.9	2.3	.0	.0	.0	11	.0	4.3
-6	.4	.6	.0	.0	.0	.0	1	.0	.2
-7/-8	1.2	.8	.0	.0	.0	.0	5	.0	1.9
-9/-1.	.4	.0	.0	.0	.0	.0	1	.0	.4
-11/-13	.4	.0	.0	.0	.0	.0	1	.0	.4
TOTAL	6		189		5			0	258
		34		23		1	258		
PCT	2.3	13.2	73.3	8.9	1.9	.4	100.0		100.0

PERIOD: (PRIMARY) 1963-1972

TABLE 18

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

N

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

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	2.0	.0	.0	.0	.0	3.0
1-2	.0	3.5	2.3	.0	.0	.0	7.0	.0	17.3	5.4	.0	.0	.0	24.3
3-4	.	.0	4.0	.0	.0	.0	9.7	.0	2.1	15.7	.0	.0	.0	21.4
5-6		.0	.0	.0	.0	.0	.0	.0	4.1	8.4	.0	.0	.0	9.5
7	.0	.0	1.4	.0	.0	.0	1.4	.0	.0	2.3	1.8	.0	.0	4.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.9
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	3.9	10.5	.0	.0	.0	15.2	.9	25.9	35.2	1.8	.0	.0	63.2

TABLE 16 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	.7	.0	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0
1-2	.7	3.4	.0	.0	.0	.0	4.1	.0	.0	.0	.0	.0	.0	.0
3-4	.0	1.8	.0	.0	.0	.0	1.8	.0	.9	.0	.0	.0	.0	.9
5-6	.0	1.5	3.4	.0	.0	.0	5.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.9	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.9	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	8.4	4.3	.0	.0	.0	14.3	.0	.9	.0	.0	.0	.0	.9

	W							NW							
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.9	.0	.0	.0	.0	.9	.0	.9	.0	.0	.0	.0	.9	
3-4	.0	.0	.9	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.9	.0	.0	.0	.0	1.8	.0	.9	.0	.0	.0	.0	.9	98.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.7	2.7	.9	.0	.0	.0	6.4	
1-2	1.8	27.3	9.1	.0	.0	.0	38.2	
3-4	.0	9.1	22.7	.0	.0	.0	31.8	
5-6	.0	2.7	12.7	.0	.0	.0	15.5	
7	.0	.0	4.5	1.8	.0	.0	6.4	
8-9	.0	.9	.9	.0	.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	4.5	42.7	50.9	1.8	.0	.0	100.0	110

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	19.3	28.7	8.7	5.3	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	97	3
6-7	.0	1.3	8.0	7.3	2.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	4
8-9	.0	.0	1.3	1.3	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	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	3.3	2.0	4.0	.7	2.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	3
TOTAL	7	34	63	27	14	3	1	0	0	0	0	0	0	0	0	0	0	0	0	150	3
PCT	5.3	22.7	42.0	18.0	9.3	2.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1911-1971
(OVER-ALL) 1858-1971

AREA 0009 KARIMATA STRAIT
1.0S 108.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	19.0	.0	.0	.0	.0	.0	.0	19.0	.0	.0	19.0	.0	.0	.0	.0	61.9
E	3.7	1.8	1.8	.0	.0	.0	.0	7.3	5.5	3.7	.0	.0	.0	.0	.0	85.4
SE	.6	.6	.1	.0	.0	.0	.0	1.3	.6	3.4	.3	.0	.0	.0	.0	95..
S	.0	.0	1.8	.0	.0	.0	.0	1.8	.0	.0	1.2	.0	.0	.0	.0	97.1
SW	.0	30.8	.0	.0	.0	.0	.0	30.8	.0	.0	.0	.0	.0	.0	.0	69.2
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	100.0	.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	25.0	.0	.0	.0	.0	.0	75.0
TOT PCT	1.4	1.0	.7	.0	.0	.0	.0	3.1	1.7	3.1	.7	.0	.0	.0	.0	92.0
TOT OBS:	289															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	.0	1.3	1.3	.0	.0	.0	.0	2.7	.0	0	1.3	.0	.0	.0	96.0
06609	1.5	1.5	.0	.0	.0	.0	.0	3.0	3.0	.0	1.5	.0	.0	.0	92.5
12615	1.5	1.5	1.5	.0	.0	.0	.0	4.5	1.5	4.5	.0	.0	.0	.0	89.6
18621	2.5	.0	.0	.0	.0	.0	.0	2.5	2.5	7.5	.0	.0	.0	.0	90.1
TOT PCT	1.4	1.0	.7	.0	.0	.0	.0	3.1	1.7	3.1	.7	.0	.0	.0	92.1
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	.0	.2	.0	.0	.0	.0		.2	7.6	.0	.0	.0	1.4	.0	.0	.0	.0
NE	.1	1.6	.1	.0	.0	.0		1.8	6.6	1.4	4.5	2.4	2.4	1.5	.0	2.2	.6
E	.9	13.2	6.8	.2	.0	.0		21.0	9.4	22.0	22.7	25.1	26.7	14.2	25.0	13.8	23.3
SE	1.3	29.2	26.0	1.2	.0	.0		57.7	10.9	59.9	63.2	55.6	49.8	56.4	70.8	63.4	59.3
S	.8	10.5	3.8	.0	.0	.0		15.1	8.7	15.1	4.5	11.6	15.9	22.8	4.2	17.5	10.1
SW	.4	1.5	.3	.0	.0	.0		2.1	7.5	1.1	.0	3.3	3.4	1.5	.0	1.3	2.2
W	.0	.4	.1	.1	.0	.0		.5	10.5	.5	.0	.5	.0	.7	.0	.4	1.1
NW	.1	.2	.0	.1	.0	.0		.4	8.5	.0	.0	.7	.5	.7	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.2							1.2	.0	.0	.0	.9	.0	2.2	.0	1.5	3.4
TOT OBS	40	483	316	13	0	0	852		9.9	141	11	222	104	137	12	136	89
TOT PCT	4.7	56.7	37.1	1.5	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.1	.1	.0	.0	.0		.2	7.5	.0	.5	.0	.0
NE	1.1	.8	.0	.0	.0		1.8	6.6	1.6	2.4	1.3	1.6
E	5.7	14.6	.6	.1	.0		21.0	9.4	22.0	25.6	15.1	17.6
SE	9.7	41.9	5.7	.5	.0		57.7	10.9	60.5	53.8	57.6	61.8
S	5.9	8.2	1.0	.0	.0		15.1	8.7	14.3	12.0	21.3	14.6
SW	.8	1.3	.0	.0	.0		2.1	7.5	1.0	3.3	1.3	1.7
W	.2	.3	.1	.0	.0		.5	10.5	.5	.3	.7	.7
NW	.2	.1	.1	.0	.0		.4	8.5	.0	.6	.7	.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.2						1.2	.0	.0	.6	2.0	2.2
TOT OBS	211	573	63	5	0	852		9.9	152	326	149	225
TOT PCT	24.8	67.3	7.4	.6	.0		100.0		100.0	100.0	100.0	100.0

AUGUST

PERIOD: (PRIMARY) 1911-1971
(OVER-ALL) 1858-1971

AREA 0009 KARIMATA STRAIT
1.8S 108.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	2.0	63.2	33.6	1.3	.0	.0	9.8	100.0	152
06&09	.6	5.8	51.5	40.5	1.5	.0	.0	10.1	100.0	326
12&15	2.0	2.0	59.1	36.2	.7	.0	.0	10.1	100.0	149
18&21	2.2	2.2	58.2	35.1	2.2	.0	.0	9.7	100.0	225
TOT	10	30	483	316	13	0	0	9.9		852
PCT	1.2	3.5	56.7	37.1	1.5	.0	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.0		.0
NE	.1	.0	.5	.5		6.6
E	3.2	5.2	8.4	2.3		4.8
SE	13.5	17.8	22.0	6.6		4.4
S	4.1	3.0	8.1	2.3		4.7
SW	.0	.4	.1	.1		4.8
W	.0	.0	.0	.4		8.0
NW	.0	.0	.5	.0		6.0
VAR	.0	.0	.0	.0		.0
CALM	.5	.0	.0	.5		5.0
TOT OBS	42	52	78	25	197	4.6
TOT PCT	21.3	26.4	39.6	12.7	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	2000-3499	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	.5	.0	.0	.0	.1	.5	
E	.0	.0	.0	1.3	1.4	1.0	.0	.0	.0	.4	15.0	
SE	.0	.0	.9	1.5	2.4	1.5	.5	.0	.5	.0	52.8	
S	.0	.0	.0	.3	1.8	1.0	.0	.0	.0	.0	14.5	
SW	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.5	
W	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.5	
TOT OBS	0	0	1	7	12	8	1	0	1	1	166	197
TOT PCT	.0	.0	.5	3.6	6.1	4.1	.5	.0	.5	.5	84.3	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	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
* OR >5000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
* OR >3500	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
* OR >2000	4.6	5.1	5.6	5.6	5.6	5.6	5.6	5.6
* OR >1000	10.3	11.3	11.8	11.8	11.8	11.8	11.8	11.8
* OR >600	11.6	14.4	15.4	15.4	15.4	15.4	15.4	15.4
* OR >300	12.3	14.9	15.9	15.9	15.9	15.9	15.9	15.9
* OR >150	12.3	14.9	15.9	15.9	15.9	15.9	15.9	15.9
* OR > 0	12.3	14.9	15.9	15.9	15.9	15.9	15.9	15.9
TOTAL	24	29	31	31	31	31	31	31

TOTAL NUMBER OF OBS: 195 PCT FREQ NM <5/8: 84.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
4.7	13.7	27.5	23.2	15.2	4.3	5.7	3.3	2.4	.0	211

AUGUST

PERIOD: (PRIMARY) 1911-1971
(OVER-ALL) 1954-1971

AREA 0009 KARIMATA STRAIT
1.8S 108.0E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.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	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.1	.3	.0	.0	.0	.3	
	TOT %	.0	.3	.0	.0	.0	.1	.3	.0	.0	.0	.7	
5<10	PCP	.0	.0	.7	.4	.3	.3	.0	.0	.0	.0	1.7	
	NO PCP	.0	.7	6.5	10.9	1.2	.3	.0	.0	.0	.0	15.7	
	TOT %	.0	.7	9.2	11.3	1.5	.7	.0	.0	.0	.0	17.4	
10+	PCP	.0	.0	.7	.3	.0	.0	.0	.0	.0	.0	1.0	
	NO PCP	.0	.6	19.2	49.7	13.1	.9	.0	.3	.0	1.4	80.8	
	TOT %	.0	.6	19.9	50.1	13.1	.9	.0	.3	.0	1.4	81.9	
	TOT OBS												287
	TOT PCT	.0	1.0	19.1	61.4	14.5	1.1	.3	.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	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.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	.2	.0	.2	.0	.0	.0	.0	.0		.4	
	11-21	.0	.0	.2	.6	.0	*	.1	.0	.0		1.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	.2	.8	.0	*	.1	.0	.0	.0	1.4	
5<10	0-3	.0	.1	.1	.1	.3	.2	.0	.0	.0	.0	.8	
	4-10	.0	.5	1.8	3.0	.7	.7	.0	.0	.0		6.7	
	11-21	.0	.0	.8	4.2	.3	.0	.0	.0	.0		5.3	
	22+	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	TOT %	.0	.6	2.7	7.5	1.3	.9	.0	.0	.0	.0	13.0	
10+	0-3	.0	.1	.4	1.0	.1	.0	.0	.0	.0	.8	2.4	
	4-10	.1	.4	12.5	29.0	9.4	.6	.0	.3	.0		52.4	
	11-21	.0	.0	4.4	21.5	4.1	.2	.0	.0	.0		30.2	
	22+	.0	.0	.0	.4	.0	.0	.0	.0	.0		.4	
	TOT %	.1	.5	17.3	51.9	13.6	.8	.0	.3	.0	.8	85.4	
	TOT OBS												506
	TOT PCT	.1	1.3	20.3	60.4	15.0	1.7	.1	.3	.0	.8	100.0	

AUGUST

PERIOD: (PRIMARY) 1911-1971
(OVERALL) 1858-1971

AREA 0009 KARIMATA STRAIT
1.8S 108.0E

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
00Z03	.0	.0	1.7	3.4	5.2	.0	1.7	.0	.0	.0	12.1	87.9	58
06Z09	.0	.0	.0	.0	10.4	6.3	.0	.0	.0	.0	16.7	83.3	48
12Z15	.0	.0	.0	2.2	2.2	8.7	.0	.0	2.2	.0	15.2	84.8	46
18Z21	.0	.0	.0	7.0	5.3	1.8	.0	.0	.0	1.8	15.8	84.2	57
TOT	0	0	1	7	12	8	1	0	1	1	31	178	209
PCT	.0	.0	.5	3.3	5.7	3.8	.5	.0	.5	.5	14.8	85.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00Z03	.0	.0	.0	1.8	7.1	91.2	113
06Z09	.0	.6	.0	1.3	12.8	85.3	156
12Z15	.0	.0	.0	1.0	13.6	85.4	103
18Z21	.0	.0	.0	1.5	17.8	80.7	135
TOT	0	1	0	7	56	433	507
PCT	.0	.2	.0	1.4	13.0	85.4	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 <5OVD	<600 <1	<1000 <3	1000+ AND5+	NM <5/8 AND 5+	TOTAL OBS
00Z03	.0	1.9	5.6	7.4	87.0	54
06Z09	.0	.0	2.2	15.2	82.6	46
12Z15	.0	.0	2.3	14.0	83.7	43
18Z21	.0	.0	7.7	9.6	82.7	52
TOT	0	1	9	22	164	195
PCT	.0	.5	4.6	11.3	84.1	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	3.7	.9	.0	11	5.1
80/84	.0	.0	.0	.0	1.9	40.2	37.9	6.1	184	86.0
75/79	.0	.0	.0	.0	.0	1.4	5.1	1.9	18	8.4
70/74	.0	.0	.0	.0	.0	.0	.0	.5	1	.5
TOTAL	0	0	0	0	5	97	94	18	214	100.0
PCT	.0	.0	.0	.0	2.3	45.3	43.9	8.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	1.3	2.9	.8	.1	.0	.0	.0	.0
	.0	.5	15.2	53.9	14.7	.8	.0	.0	.0	.9
	.0	.5	2.9	3.9	.2	.0	.0	.5	.0	.5
	.0	.0	.0	.0	.0	.1	.4	.0	.0	.0
	.0	.9	19.4	60.6	15.8	1.1	.4	.5	.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
00Z03	90	86	84	82	79	76	73	81.5	151
06Z09	93	90	87	83	79	76	75	82.9	316
12Z15	85	84	84	81	79	74	69	81.3	149
18Z21	87	85	83	81	79	75	75	80.9	227
TOT	93	88	86	82	79	74	69	81.8	843

TABLE 16

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	42.1	49.1	8.8	81	57
06Z09	.0	.0	6.1	55.1	26.5	12.2	79	49
12Z15	.0	.0	2.1	52.1	39.6	6.3	80	48
18Z21	.0	.0	1.6	30.1	55.7	6.6	82	61
TOT	0	0	5	98	94	18	81	215

AUGUST

PERIOD: PRIMARY) 1911-1971
(OVER-ALL) 1898-1971

TABLE 17

AREA 0009 KARIMATA STRAIT
1.85 108.0E

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	N FOG	WO FOG
6	.0	.0	.0	.8	.0	2	.0	.8
5	.0	.0	.0	2.0	.8	7	.0	2.8
4	.0	.0	.8	.8	.0	4	.0	1.6
3	.0	.0	1.2	1.2	.4	7	.0	2.8
2	.0	.0	6.4	.4	.0	17	.0	6.6
1	.0	.0	11.2	.8	.0	30	.0	12.0
0	.0	.8	26.8	.0	.0	69	.0	27.6
-1	.0	4.0	14.4	.0	.0	46	.0	18.4
-2	.0	4.0	5.6	.0	.0	24	.4	9.2
-3	.0	3.2	4.8	.0	.0	20	.0	8.0
-4	.0	1.6	2.4	.0	.0	10	.0	4.0
-5	.0	2.4	.0	.0	.0	6	.0	2.4
-6	1.2	.4	.0	.0	.0	4	.0	1.6
-7/-8	.4	.4	.0	.0	.0	2	.0	.8
-9/-10	.4	.4	.0	.0	.0	2	.0	.8
TOTAL	5	43	184	15	3	250	1	249
PCT	2.0	17.2	73.6	6.0	1.2	100.0	.4	99.6

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERS S & 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	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.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	.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6
1-2	.0	7.2	3.1	.0	.0	.0	10.2
3-4	.0	.8	2.9	.0	.0	.0	3.7
5-6	.0	.0	.8	.0	.0	.0	.8
7	.0	.0	.8	.0	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.6	7.6	.0	.0	.0	16.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.8	.0	.0	.0	1.8
1-2	.0	17.4	8.6	.0	.0	.0	26.0
3-4	.0	8.6	19.9	.0	.0	.0	28.5
5-6	.0	.4	6.8	.8	.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	27.5	36.1	.8	.0	.0	64.3

PERIOD: (OVER-ALL) 1963-1971 AUGUST AREA 0009 KARIMATA STRAIT

TABLE 18 (CONT) 1.85 108.0E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
1-2	.0	7.0	.6	.0	.0	.0	7.6	.0	.0	.2	.0	.0	.0	.2
3-4	.0	1.2	3.1	.0	.0	.0	4.3	.0	.0	.4	.0	.0	.0	.4
5-6	.0	1.2	2.3	.0	.0	.0	3.5	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	10.2	5.9	.0	.0	.0	16.2	.0	.0	.6	.0	.0	.0	.6

	W							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+	TOT PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.6	.0	.0	.0	.6	.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		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.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	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	98.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.4	2.4	.8	.0	.0	.0	5.7	
1-2	.0	31.7	13.0	.0	.0	.0	44.7	
3-6	.0	10.6	26.0	.0	.0	.0	38.6	
5-6	.0	1.6	9.8	.8	.0	.0	12.4	
7	.0	.0	.8	.0	.0	.0	.8	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.4	46.3	50.4	.8	.0	.0	100.0	123

PERIOD: (OVER-ALL) 1949-1971 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.3	21.3	31.6	10.3	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	119	3
6-7	.0	2.3	5.2	8.6	2.3	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	5
8-9	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	1.1	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	4
>13	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDET	4.6	.6	2.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	1
TOTAL	12	42	70	39	9	2	0	0	0	0	0	0	0	0	0	0	0	0	0	174	4
PCT	6.9	24.1	40.2	22.4	5.2	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1911-1971
(OVER-ALL) 1856-1971

AREA 0009 KARIMATA STRAIT
1.85 108.0E

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	44.4	.0	.0	.0	.0	.0	44.4	.0	.0	.0	.0	.0		.0	55.6
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	13.3	.0	.0	.0		.0	86.7
E	2.0	3.4	.0	.0	.0	.0	.0	5.4	2.0	1.5	.0	.0	2.0		.0	89.2
SE	2.6	.8	.6	.0	.0	.0	.0	4.1	1.3	1.1	5.2	.0	1.6		.0	86.7
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	.0	.0	4.2		.0	91.6
SW	11.6	.0	2.3	.0	.0	.0	.0	14.0	9.3	9.3	.0	.0	.0		.0	67.4
W	15.8	.0	15.8	.0	.0	.0	.0	31.6	21.1	.0	.0	.0	.0		.0	47.4
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	36.4	.0	.0	.0		.0	63.6
VAR	.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	.0	.0	.0	.0		.0	75.0
TOT PCT	2.6	1.8	.7	.0	.0	.0	.0	5.1	1.8	2.6	2.9	.0	1.8		.0	85.7
TOT OBS:	273															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.0	3.0	1.5	.0	.0	.0	.0	7.5	3.0	1.5	1.5	.0	1.5		.0	84.8
06&09	.0	.0	1.3	.0	.0	.0	.0	1.3	2.5	.0	5.1	.0	2.5		.0	88.6
12&15	.0	3.3	.0	.0	.0	.0	.0	3.3	1.6	3.3	1.6	.0	.0		.0	90.2
18&21	6.9	1.4	.0	.0	.0	.0	.0	8.3	.0	5.6	2.8	.0	2.8		.0	80.6
TOT PCT	2.5	1.8	.7	.0	.0	.0	.0	5.0	1.8	2.5	2.9	.0	1.8		.0	86.0
TOT OBS:	278															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.4	.3	.1	.0	.0	.0		.8	4.8	.9	.0	.7	1.1	1.5	.0	.4	.0
NE	1.0	2.7	.2	.0	.0	.0		4.0	5.8	2.4	.0	3.7	5.9	4.0	2.8	3.5	5.9
E	1.7	11.2	4.8	.1	.0	.0		17.8	9.2	19.7	40.0	17.5	20.7	13.9	25.0	16.4	17.8
SE	2.4	30.7	19.4	.5	.0	.0		52.5	9.8	55.6	35.0	54.2	45.7	52.7	44.4	51.8	54.5
S	1.1	10.5	3.9	.1	.0	.0		15.5	8.5	13.0	20.0	14.5	16.5	18.8	22.2	16.4	13.9
SW	.2	2.6	.3	.0	.0	.0		3.1	7.1	3.0	5.0	2.9	3.2	2.7	5.6	4.5	2.0
W	.4	1.1	.3	.0	.0	.0		1.8	7.8	.9	.0	3.1	.5	2.0	.0	2.7	.5
NW	.2	1.0	.1	.0	.0	.0		1.2	6.7	2.1	.0	.7	1.1	1.5	.0	.4	2.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.1							3.1	.0	2.3	.0	2.8	5.3	2.9	.0	3.9	3.0
TOT OBS	87	499	234	6	0	0	828		8.8	199	10	216	94	137	9	128	101
TOT PCT	10.5	60.3	28.9	.7	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00+ 03	06 09	12 15	18 21
N	.6	.2	.0	.0	.0		.8	4.8	.9	.8	1.4	.2
NE	2.6	1.4	.0	.0	.0		4.0	5.8	2.3	4.4	3.9	4.6
E	4.7	11.7	1.4	.0	.0		17.8	9.2	21.2	18.5	14.6	17.0
SE	12.5	36.5	3.5	.0	.0		52.5	9.8	54.2	51.6	52.2	52.9
S	5.7	9.2	.7	.0	.0		15.5	8.5	13.5	15.1	19.0	15.3
SW	1.6	1.1	.2	.0	.0		3.1	7.1	3.1	3.0	2.9	3.4
W	1.1	.5	.3	.0	.0		1.8	7.8	.9	2.3	1.9	1.7
NW	.7	.5	.1	.0	.0		1.2	6.7	1.9	.8	1.4	1.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.1						3.1	.0	2.1	3.5	2.7	3.5
TOT OBS	272	505	51	0	0	828		8.8	143	310	146	229
TOT PCT	32.9	61.0	6.2	.0	.0		100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1911-1971
(OVER-ALL) 1856-1971

AREA 0009 KARIMATA STRAIT
1.8S 108.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
				WIND SPEED (KNOTS)						
00&03	2.1	7.7	62.9	27.3	.0	.0	.0	8.7	100.0	143
06&09	3.5	7.4	58.1	30.0	1.0	.0	.0	8.9	100.0	310
12&15	2.7	6.2	58.2	30.8	2.1	.0	.0	9.2	100.0	146
18&21	3.5	7.9	62.9	25.8	.0	.0	.0	8.5	100.0	229
TOT	26	61	499	236	6	0	0	8.8		828
PCT	3.1	7.4	60.3	28.5	.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	.4	.0	.3	.6		5.7
NE	.3	.0	.7	2.5		7.2
E	4.1	3.5	5.3	6.1		5.7
SE	7.6	11.0	23.7	9.9		5.1
S	1.5	2.5	5.8	4.2		5.8
SW	.7	1.2	1.6	1.2		5.2
W	.0	.0	1.8	.6		6.6
NW	.0	.0	.4	.6		7.4
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	1.2	1.2		7.2
TOT OBS	25	31	69	46	171	5.4
TOT PCT	14.6	18.1	40.4	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	.0	.0	.6	.0	.0	.0	.0	.0	.0	.7	
NE	.0	.0	.0	.0	.6	.0	.6	.0	.0	.1	2.2	
E	.6	.0	.4	.0	4.4	.6	.0	.0	.0	1.0	12.0	
SE	.0	.0	.7	1.8	6.7	2.3	.0	.6	.0	.0	39.6	
S	.0	.0	.0	.6	1.2	1.2	.0	.0	.0	.0	11.1	
SW	.0	.0	.0	.6	.7	.6	.0	.0	.0	.0	2.8	
W	.0	.0	.0	.6	.4	.0	.0	.0	.0	.0	1.3	
NW	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	1.2	
TOT OBS	1	0	2	7	27	8	1	1	0	2	122	171
TOT PCT	.6	.0	1.2	4.1	15.8	4.7	.6	.6	.0	1.2	71.3	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	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
• OR >5000	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
• OR >3500	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
• OR >2000	6.3	7.4	7.4	7.4	7.4	7.4	7.4	7.4
• OR >1000	19.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4
• OR >600	21.7	27.4	27.4	27.4	27.4	27.4	27.4	27.4
• OR >300	22.4	28.6	28.6	28.6	28.6	28.6	28.6	28.6
• OR >150	22.9	28.6	28.6	28.6	28.6	28.6	28.6	28.6
• OR > 0	22.9	29.1	29.1	29.1	29.1	29.1	29.1	29.1
TOTAL	40	51	51	51	51	51	51	51

TOTAL NUMBER OF OBS: 175 * FREQ NH <5/8: 70.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
8.3	14.1	16.1	19.3	13.0	5.7	2.6	7.3	13.0	.5	192

SEPTEMBER

PERIOD: (PRIMARY) 1911-1971
(OVER-ALL) 1856-1971

AREA 0009 KARIMATA STRAIT
1.8S 108.0E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	2.6	
	TOT %	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	2.6	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.5	.5	.0	.0	.0	.0	.0	1.1	
	TOT %	.0	.0	.0	.5	.5	.0	.0	.0	.0	.0	1.1	
2<5	PCP	.0	.0	.0	.4	.0	.1	.3	.0	.0	.0	.7	
	NO PCP	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.7	
	TOT %	.0	.0	.4	.4	.4	.1	.3	.0	.0	.0	1.5	
5<10	PCP	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	.7	
	NO PCP	.0	.5	2.1	15.5	2.3	.2	.4	.4	.0	.0	21.2	
	TOT %	.0	.5	2.5	15.5	2.3	.2	.4	.4	.0	.4	22.0	
10+	PCP	.4	.0	.6	1.9	.0	.5	.3	.0	.0	.0	3.7	
	NO PCP	.5	2.3	15.2	35.6	9.9	3.2	.8	.6	.0	1.1	69.2	
	TOT %	.8	2.3	15.8	37.5	9.9	3.7	1.1	.6	.0	1.1	72.9	
	TOT OBS												273
	TOT PCT	.8	2.7	19.7	56.5	13.1	3.9	1.7	1.0	.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	1.4	.0	.0	.0	.0	.0		1.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	1.4	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.7	.3	.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 %	.0	.0	.0	.7	.3	.2	.0	.0	.0	.0	1.2	
2<5	0-3	.0	.0	.2	.0	.0	.0	.0	.2	.0	.0	.4	
	4-10	.0	.0	.2	.4	.0	*	.1	.0	.0		.8	
	11-21	.0	.0	.0	.0	.2	.0	.0	.0	.0		.2	
	22+	.0	.0	.2	.0	.0	.0	.0	.0	.0		.2	
	TOT %	.0	.0	.6	.4	.2	*	.1	.2	.0	.0	1.6	
5<10	0-3	.0	.0	.5	.2	.3	.0	.0	.0	.0	.2	1.2	
	4-10	.0	.2	.6	5.4	.6	.2	.4	.4	.0		7.9	
	11-21	.0	.0	.9	4.8	.8	.0	.0	.0	.0		6.5	
	22+	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	TOT %	.0	.2	2.0	10.6	1.7	.2	.4	.4	.0	.2	15.7	
10+	0-3	.3	.7	1.3	1.5	.7	.2	.5	*	.0	2.8	8.1	
	4-10	.3	1.5	11.1	26.4	6.8	1.8	.2	.6	.0		48.6	
	11-21	.0	.0	4.8	15.8	2.2	.2	.0	.0	.0		23.0	
	22+	.0	.0	.0	.3	.1	.0	.0	.0	.0		.4	
	TOT %	.6	2.2	17.2	44.0	9.7	2.2	.8	.6	.0	2.8	80.1	
	TOT OBS												908
	TOT PCT	.6	2.5	19.8	57.0	12.0	2.6	1.3	1.2	.0	3.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1911-1971
(OVER-ALL) 1856-1971

AREA 0009 KARIMATA STRAIT
1.8S 108.0E

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	2.0	.0	2.0	.0	26.5	2.0	.0	2.0	.0	2.0	36.7	63.3	49
06E09	.0	.0	.0	1.9	9.6	1.9	.0	.0	.0	.0	13.5	86.5	52
12E15	.0	.0	.0	7.0	9.3	4.7	2.3	.0	2.3	2.3	27.9	72.1	43
18E21	.0	.0	2.3	7.0	14.0	9.3	.0	.0	.0	.0	32.6	67.4	43
TOT	1	0	2	7	28	8	1	1	1	2	51	136	187
PCT	.5	.0	1.1	3.7	15.0	4.3	.5	.5	.5	1.1	27.3	72.7	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	.9	1.8	.9	10.0	86.4	110
06E09	.0	2.0	.7	3.3	13.1	81.0	153
12E15	.0	1.0	2.0	1.0	19.6	76.5	102
18E21	.0	1.4	.7	.7	19.6	77.7	148
TOT	0	7	6	8	80	412	513
PCT	.0	1.4	1.2	1.6	15.6	80.3	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	2.1	4.3	4.3	34.0	61.7	47
06E09	.0	.0	2.0	12.2	85.7	49
12E15	.0	.0	7.7	23.1	69.2	39
18E21	.0	2.5	10.0	25.0	65.0	40
TOT	1	3	10	41	124	175
PCT	.6	1.7	5.7	23.4	70.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.0	.5	.0	.0	1	.5
85/89	.0	.0	.0	.5	.0	4.0	1.4	.0	17	7.9
80/84	.0	.0	.0	.0	.9	34.4	37.2	10.9	79	33.3
75/79	.0	.0	.0	.0	.0	1.4	3.7	2.3	16	7.4
70/74	.0	.0	.0	.0	.0	.0	.9	.5	2	.9
TOTAL	0	0	0	1	2	91	93	28	215	100.0
PCT	.0	.0	.0	.5	.9	42.3	43.3	13.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0
	.0	.1	2.8	4.1	.5	.5	.0	.0	.0	.0
	.2	2.1	12.2	51.4	11.0	3.0	1.2	.7	.0	1.4
	.5	.5	1.0	3.3	.8	.7	.7	.0	.0	.0
	.0	.0	.0	.0	.8	.1	.0	.0	.0	.0
	.7	2.7	16.0	59.2	13.1	4.3	1.9	.7	.0	1.4

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	90	86	84	82	79	74	74	81.4	140
06E09	94	90	87	83	80	75	72	83.1	297
12E15	86	85	84	82	79	77	75	81.6	144
18E21	85	84	83	81	78	75	74	81.0	229
TOT	94	88	86	82	79	75	72	82.0	810

TABLE 16

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	31.9	55.3	12.8	83	47
06E09	.0	1.7	1.7	57.6	32.2	6.8	78	59
12E15	.0	.0	2.0	47.1	44.1	7.8	80	51
18E21	.0	.0	.0	30.6	46.8	22.6	84	62
TOT	0	1	2	92	96	28	81	219

SEPTEMBER

PERIOD: (PRIMARY) 1911-1971
(OVER-ALL) 1856-1971

TABLE 17

AREA 0009 KARIMATA STRAIT
1.8S 108.0E

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	% FOG	WD FOG
7/8	.0	.0	.5	.0	1.0	3	.0	1.4
5	.0	.0	1.0	.5	.0	3	.0	1.4
4	.0	.0	.5	2.4	.0	5	.0	2.9
3	.0	.0	.5	.5	.0	2	.0	1.0
2	.0	.0	6.2	1.9	.0	21	.0	10.1
1	.0	1.0	10.6	1.9	.0	28	.0	13.5
0	.0	3.8	21.6	.5	.0	54	.0	26.0
-1	.5	3.4	12.0	.5	.0	34	.0	16.3
-2	.5	1.9	9.6	.0	.0	25	.0	12.0
-3	.0	2.9	1.9	.0	.0	10	.0	4.8
-4	.0	1.4	2.4	.0	.0	8	.0	3.8
-5	.0	2.4	1.0	.0	.0	7	.0	3.4
-6	.0	1.0	.0	.0	.0	2	.0	1.0
-7/-8	.0	1.4	.0	.0	.0	3	.0	1.4
-9/-10	.5	.5	.0	.0	.0	2	.0	1.0
TOTAL	3	41	145	17	2	208	0	208
PCT	1.4	19.7	69.7	8.2	1.0	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	1.0	.0	.0	.0	.0	1.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.0	.0	.0	.0	.0	1.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.0	.0	.0	.0	.0	1.0
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	.0	1.2	.0	.0	.0	.0	1.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.0	.0	.0	.0	1.0
1-2	1.0	5.1	.7	.0	.5	.0	5.5
3-4	.0	3.4	2.2	.0	.0	.0	5.6
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	1.0	10.4	3.6	.0	.0	.0	15.0

SE

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	21.1	9.0	.0	.0	.0	30.1
3-4	.0	7.5	13.1	.0	.0	.0	20.6
5-6	.0	.2	2.2	.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	.0	30.8	24.3	.0	.0	.0	55.1

PERIOD: (OVER-ALL) 1963-1971

SEPTEMBER

TABLE 18 (CONT)

AREA 0009 KARIMATA STRAIT
1.8S 108.0E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	8.5	.0	.0	.0	.0	8.5	.0	4.4	.0	.0	.0	.0	4.4
3-4	.0	2.4	4.1	.0	.0	.0	6.6	.0	.2	.0	.0	.0	.0	.2
5-6	.0	.7	1.0	.0	.0	.0	1.7	.0	1.0	.0	.0	.0	.0	1.0
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	11.7	5.1	.0	.0	.0	16.7	.0	5.6	.0	.0	.0	.0	5.6

	W							W							
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	1.0	
1-2	.0	.7	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.7	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.5	.0	.0	.0	.0	1.5	.0	1.0	.0	.0	.0	.0	1.0	97.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.9	3.9	.0	.0	.0	.0	6.8	
1-2	1.0	41.7	9.7	.0	.0	.0	52.4	
3-4	.0	14.6	19.4	.0	.0	.0	34.0	
5-6	.0	2.9	3.9	.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	3.9	63.1	33.0	.0	.0	.0	100.0	103

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	32.5	39.1	7.3	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	107	3
6-7	.0	1.3	6.0	4.0	2.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	4
8-9	.0	.0	1.3	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	5
10-11	.0	1.3	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	3
12-13	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
>13	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDET	2.0	2.6	4.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	2
TOTAL	4	57	62	21	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	151	3
PCT	2.6	37.7	41.1	13.9	3.3	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1912-1972
(OVER-ALL) 1854-1972

AREA 0009 KARIMATA STRAIT
1.8S 108.0E

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	.0	9.3	18.6	.0	.0	.0	.0	27.9	.0	.0	.0	.0	.0		.0	72.1
NE	13.8	.0	6.9	.0	.0	.0	.0	20.7	20.7	6.9	.0	.0	.0		.0	51.7
E	1.8	1.8	1.3	.0	.0	.0	.0	4.9	5.3	9.8	1.8	.0	1.3		.0	76.9
SE	10.0	2.4	3.2	.0	.0	.0	.0	15.6	.0	6.8	3.5	.0	3.7		.0	72.8
S	5.3	1.8	1.8	.0	.0	.0	.0	8.8	.0	6.2	.0	.0	1.8		.0	83.2
SW	11.5	2.9	1.0	.0	.0	.0	.0	15.4	7.7	7.7	.0	.0	1.9		.0	71.2
W	12.5	9.7	6.9	.0	.0	.0	.0	29.2	.0	5.6	.0	.0	.0		.0	63.3
NW	23.9	.0	4.3	.0	.0	.0	.0	28.3	.0	8.7	.0	.0	.0		.0	63.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	4.5	.0	4.5	.0	.0	.0	.0	9.1	.0	31.8	.0	.0	.0		.0	59.1
TOT PCT	8.1	2.6	3.7	.0	.0	.0	.0	14.3	2.9	9.2	1.5	.0	1.5		.0	71.3
TOT OBS:	272															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER 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	10.7	4.0	5.3	.0	.0	.0	.0	20.0	8.0	1.3	2.7	.0	1.3		.0	66.7
06&09	4.9	4.9	3.7	.0	.0	.0	.0	13.6	2.5	.0	1.2	.0	1.2		.0	81.5
12&15	7.8	1.6	1.6	.0	.0	.0	.0	10.9	.0	7.8	1.6	.0	.0		.0	79.7
18&21	8.2	1.4	2.7	.0	.0	.0	.0	12.3	1.4	27.4	.0	.0	2.7		.0	58.9
TOT PCT	7.8	3.1	3.4	.0	.0	.0	.0	14.3	3.1	8.9	1.4	.0	1.4		.0	71.7
TOT OBS:	293															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.1	1.4	.1	.0	.0	.0		2.6	5.3	4.1	.0	3.8	.0	1.7	.0	3.2	.7
NE	.8	4.2	.7	.0	.0	.0		5.8	6.8	7.2	.0	7.9	1.8	5.2	.0	4.2	6.5
E	2.1	12.7	2.2	.0	.0	.0		16.9	7.2	19.9	35.0	16.5	11.8	17.0	16.7	16.9	15.8
SE	3.4	20.7	7.4	.0	.0	.0		31.5	8.2	31.4	15.0	27.5	34.9	33.3	44.4	33.8	32.2
S	2.3	10.7	2.3	.0	.0	.0		15.3	6.8	12.7	30.0	14.6	14.5	13.9	27.8	13.4	16.4
SW	1.7	5.4	1.8	.0	.0	.0		8.7	7.3	6.4	.0	8.3	16.5	12.6	11.1	3.9	7.2
W	1.4	2.6	.7	.1	.0	.0		4.9	6.8	4.3	15.0	5.5	3.5	5.2	.0	3.7	5.9
NW	.7	2.3	.2	.0	.0	.0		3.2	6.1	2.9	5.0	2.6	2.4	2.4	.0	5.1	4.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	11.2							11.2	.0	10.9	.0	11.3	11.8	8.7	.0	15.7	10.5
TOT OBS	183	445	114	1	0	0	743		6.5	120	10	212	85	115	9	108	76
TOT PCT	24.6	59.9	15.3	.1	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.7	.9	.0	.0	.0		2.6	5.3	3.8	2.7	1.6	2.2
NE	3.4	2.4	*	.0	.0		5.8	6.8	6.7	6.1	4.8	5.2
E	8.0	8.7	.2	.0	.0		16.9	7.2	21.0	15.2	16.9	16.4
SE	11.7	19.0	.7	.0	.0		31.5	8.2	30.3	29.9	34.1	33.2
S	8.7	6.5	.1	.0	.0		15.3	6.8	13.9	16.6	14.9	14.7
SW	4.2	4.3	.3	.0	.0		8.7	7.3	6.0	10.6	12.5	5.3
W	3.0	1.6	.3	.0	.0		4.9	6.8	5.1	5.0	4.8	4.6
NW	1.9	1.2	.0	.0	.0		3.2	6.1	3.1	2.5	2.2	4.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	11.2						11.2	.0	10.1	11.4	8.1	13.6
TOT OBS	400	331	12	0	0	743		6.5	138	297	124	184
TOT PCT	53.8	44.5	1.6	.0	.0		100.0		100.0	100.0	100.0	100.0

OCTOBER

PERIOD (PRIMARY) 1912-1972
(OVER-ALL) 1854-1972

AREA 0009 KARIMATA STRAIT
1.85 108.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
				WIND SPEED (KNOTS)						
00603	10.1	15.2	60.9	13.8	.0	.0	.0	6.3	100.0	138
06609	11.4	13.1	59.3	16.2	.0	.0	.0	6.5	100.0	297
12615	8.1	13.7	55.6	22.6	.0	.0	.0	7.3	100.0	124
18621	13.6	12.5	63.0	10.3	.5	.0	.0	6.1	100.0	184
TOT	83	100	445	114	1	0	0	6.5		743
PCT	11.2	13.5	59.9	15.3	.1	.0	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	1.1	1.5	3.3		6.9
NE	.0	.7	2.3	3.6		6.8
E	1.9	3.9	8.7	7.7		6.1
SE	1.5	7.2	8.8	10.9		6.0
S	1.0	1.0	4.3	2.5		5.8
SW	.0	.6	5.8	3.2		6.9
W	.6	.0	1.0	2.5		6.4
NW	.0	.6	1.2	2.2		6.8
VAR	.0	.0	.0	.0		.7
CALM	2.2	1.7	3.3	3.9		5.4
TOT OBS	13	30	67	71	181	6.2
TOT PCT	7.2	16.6	37.0	39.2	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 2999	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	1.7	1.9	.6	.0	.0	.0	.0	2.2	
NE	.0	.0	.6	1.1	.7	.6	.1	.0	.0	.0	3.6	
E	.0	.0	.0	1.0	4.0	.4	1.0	.0	.0	.0	15.9	
SE	.0	.0	.8	4.1	4.4	2.2	.0	.6	.0	.0	16.4	
S	.0	.0	.0	1.0	.8	.0	.0	.0	.0	.0	6.9	
SW	.0	.0	.0	1.2	.6	.6	1.1	.0	.0	.0	6.1	
W	.0	.0	.0	1.5	.6	.0	.0	.0	.0	.0	1.9	
NW	.0	.0	.0	.6	.1	2.2	.0	.0	.0	.0	1.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.6	1.7	.0	.6	.0	1.1	.0	6.8	
TOT OBS	0	0	2	23	26	12	5	1	2	0	110	181
TOT PCT	.0	.0	1.1	12.7	14.4	6.6	2.8	.6	1.1	.0	60.8	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) • OR >10	• OR >5	• OR >2	• OR >1	• OR >1/2	• OR >1/4	• OR >500YD	• OR >0
• OR >6500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
• OR >5000	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
• OR >3500	3.6	4.2	4.2	4.2	4.2	4.2	4.2	4.2
• OR >2000	7.8	9.4	9.4	9.4	9.4	9.9	9.9	9.9
• OR >1000	18.2	21.9	23.4	23.4	23.4	24.0	24.0	24.0
• OR >600	24.5	31.6	35.4	35.4	35.4	35.9	35.9	35.9
• OR >300	24.5	32.8	36.5	36.5	36.5	37.0	37.0	37.0
• OR >150	24.5	32.8	36.5	36.5	36.5	37.0	37.0	37.0
• OR > 0	24.5	32.8	36.5	36.5	36.5	37.0	37.0	37.0
TOTAL	47	63	70	70	70	71	71	71

TOTAL NUMBER OF OBS: 192 PCT FREQ NH <5/8: 63.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
9.8	11.4	18.4	18.9	11.3	8.5	8.5	5.7	13.2	.0	212

OCTOBER

PERIOD: (PRIMARY) 1912-1972
(OVER-ALL) 1854-1972

TABLE 8

AREA 0609 KARIMATA STRAIT
1.8S 108.0E

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	.0	.0	.0	.0	.0	.0	
	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	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.4	.0	.2	.2	.0	.0	.0	.0	.7	
	TOT %	.0	.0	.4	.0	.2	.2	.0	.0	.0	.0	.7	
1<2	PCP	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	
	NO PCP	.0	.0	.0	.7	.2	.2	.0	.0	.0	.0	1.1	
	TOT %	.0	.0	.0	.7	.2	.6	.0	.0	.0	.0	1.5	
2<5	PCP	.4	.0	.0	.7	.0	.0	.4	.0	.0	.0	1.5	
	NO PCP	.0	.0	1.7	.9	.0	.0	.0	.0	.0	.0	2.6	
	TOT %	.4	.0	1.7	1.7	.0	.0	.4	.0	.0	.0	4.1	
5<10	PCP	.4	.7	.6	2.4	.6	.9	.6	.7	.0	.0	7.4	
	NO PCP	.0	1.1	.7	4.1	2.6	3.0	3.0	.0	.0	.7	15.1	
	TOT %	.4	1.8	1.4	7.5	3.1	3.2	3.6	.7	.0	.7	22.5	
10+	PCP	.4	.4	.4	.7	.4	.8	.9	.5	.0	.7	5.2	
	NO PCP	2.9	3.1	17.0	20.3	6.5	4.8	1.8	2.7	.0	6.6	65.7	
	TOT %	3.2	3.5	17.3	21.0	6.9	5.4	2.7	3.1	.0	7.4	70.8	
	TOT OBS												271
	TOT PCT	4.0	5.4	20.8	31.3	10.4	9.6	6.6	5.9	.0	8.1	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	.2	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.7	
	4-10	.0	.0	.0	.0	.1	.1	.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	.7	.0	.1	.1	.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	.5	.1	.1	.0	.0	.0		.7	
	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	.5	.1	.4	.0	.0	.0	.0	1.0	
2<5	0-3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.0	.7	1.2	.2	.0	.5	.0	.0		2.6	
	11-21	.0	.0	.4	.6	.0	.0	.0	.0	.0		1.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.0	1.1	1.8	.2	.0	.5	.0	.0	.0	3.8	
5<10	0-3	.0	.2	.0	.7	.0	.2	.7	.0	.0	.5	2.4	
	4-10	.4	1.0	1.7	3.9	2.9	1.7	1.5	.1	.0		13.2	
	11-21	.0	.5	.2	1.9	.4	.4	.1	.4	.0		3.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.4	1.7	2.0	6.6	3.2	2.3	2.3	.5	.0	.5	19.5	
10+	0-3	.8	.4	2.0	2.0	.7	.5	.7	.5	.0	10.1	17.8	
	4-10	1.7	2.6	13.0	13.3	7.9	4.1	.4	1.9	.0		45.0	
	11-21	.2	.1	1.9	6.8	1.4	.7	.6	.1	.0		11.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	2.8	3.1	16.9	22.1	9.9	5.3	1.7	2.4	.0	10.1	74.5	
	TOT OBS												416
	TOT PCT	3.4	4.8	20.7	31.2	13.6	8.2	4.6	2.9	.0	10.6	100.0	

OCTOBER

PERIOD: (PRIMARY) 1912-1972
(OVERALL) 1954-1972

AREA 0009 KARIMATA STRAIT
1.85 108.0E

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
00603	[illegible]		1.8	14.3	16.1	14.3	3.6	.0	1.8	.0	51.8	48.2	56
06609	.0	.0	.0	12.1	15.5	1.7	1.7	.0	.0	.0	31.0	69.0	58
12615	.0	.0	2.3	4.7	7.0	2.3	2.3	.0	.0	.0	18.6	81.4	43
18621	.0	.0	.0	11.8	11.8	3.9	2.0	2.0	2.0	.0	33.3	66.7	51
TOT	0	0	2	23	27	12	5	1	2	0	72	136	208
PCT	.0	.0	1.0	11.1	14.0	5.8	2.4	.5	1.0	.0	34.6	65.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	1.0	1.0	.0	3.8	13.5	80.8	104
06609	.0	1.4	1.4	2.2	19.0	75.4	138
12615	.0	1.2	.0	6.0	26.2	66.7	84
18621	.0	.0	1.8	4.5	22.3	71.4	112
TOT	1	4	4	17	88	324	438
PCT	.2	.9	.9	3.9	20.1	74.0	100.0

TABLE 12

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

HOUR (GMT)	<150 <5DVD	<600 <1	<1000 <5	1000+ AND5+	NM <5/8 AND 5+	TOTAL OBS
00603	.0	3.8	13.9	34.0	47.2	53
06609	.0	.0	15.4	19.2	65.4	52
12615	.0	2.6	10.3	12.8	76.9	39
18621	.0	.0	16.8	18.8	62.5	48
TOT	0	3	31	42	119	192
PCT	.0	1.6	16.1	21.9	62.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.9	3.7	.5	1.4	14	6.5
80/84	.0	.0	.0	.0	2.8	27.0	44.5	5.1	175	81.4
75/79	.0	.0	.0	.0	.0	2.3	4.2	5.6	26	12.1
TOTAL	0	0	0	0	4	71	110	26	215	100.0
PCT	.0	.0	.0	.0	1.9	33.0	51.2	12.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.5	.6	2.2	2.4	.3	.0	.0	.0	.0	.5
	3.3	3.6	17.6	23.7	9.2	7.0	6.7	2.4	.0	7.9
	.5	1.4	1.4	2.9	.3	2.6	.7	1.9	.0	.5
	4.2	5.6	21.2	29.1	9.9	9.5	7.4	4.3	.0	8.9

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00603	88	86	84	82	77	75	74	81.3	142
06609	95	92	88	83	74	77	75	83.2	291
12615	86	85	84	82	79	78	77	81.9	129
18621	84	83	83	82	79	75	74	81.3	186
TOT	95	90	86	82	78	74	74	82.1	748

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	.0	1.8	28.8	55.4	16.1	83	56
06609	.0	.0	9.2	43.1	36.9	10.8	79	65
12615	.0	.0	1.9	28.8	55.8	13.5	82	52
18621	.0	.0	1.6	27.0	63.5	7.9	82	63
TOT	0	0	9	75	124	28	81	236

OCTOBER

PERIOD: (PRIMARY) 1912-1972
(L 50-ALL) 1854-1972

AREA 0009 KARIMATA STRAIT
1.85 108.0E

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
5	.0	.0	.0	.0	.4	1	.0	.4
4	.0	.0	.8	.0	.4	3	.0	1.3
3	.0	.0	.4	1.3	.0	4	.0	1.7
2	.0	.4	3.8	3.8	.0	19	.0	8.1
1	.0	.4	8.1	.8	.0	22	.4	8.9
0	.0	.8	17.4	1.7	.0	47	.4	19.5
-1	.0	1.3	17.8	.8	.0	47	.8	19.1
-2	.0	2.1	11.9	.0	.0	33	.0	14.0
-3	.0	3.4	4.2	.0	.0	18	.0	7.6
-4	.4	6.4	2.5	.0	.0	22	.0	9.3
-5	.4	2.1	1.3	.0	.0	9	.0	3.8
-6	.4	2.1	.0	.0	.0	6	.0	2.5
-7/-8	.4	1.7	.0	.0	.0	5	.0	2.1
TOTAL	4	49	161	20	2	236	4	232
PCT	1.7	20.8	68.2	8.5	.8	100.0	1.7	98.3

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF 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	1.8	.9	.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	.0	1.8	.9	.0	.0	.0	2.6

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	.9	.0	.0	.0	.0	2.0
1-2	.0	2.0	.2	.0	.0	.0	2.2
3-4	.0	1.8	.0	.0	.0	.0	1.8
5-6	.0	.0	.9	.0	.0	.0	.9
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	4.6	1.1	.0	.0	.0	6.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.5	.0	.0	.0	.0	.0	1.5
1-2	.0	15.1	3.7	.0	.0	.0	18.9
3-4	.0	1.5	2.6	.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	1.5	16.7	6.4	.0	.0	.0	24.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9
1-2	.0	7.5	2.2	.0	.0	.0	9.6
3-4	.0	5.5	7.5	.0	.0	.0	12.9
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	13.8	9.6	.0	.0	.0	23.5

PERIOD: (OVER-ALL) 1963-1972

OCTOBER

TABLE 18 (CONT)

AREA 0009 KARIMATA STRAIT
1.0S 108.0E

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	1.8	.0	.0	.0	.0	1.8
1-2	.0	6.1	.0	.0	.0	.0	6.1
3-4	.0	.0	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	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.9	3.7	.0	.0	.0	11.6

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	.9	.0	.0	.0	.0	1.8
1-2	.0	3.9	.2	.0	.0	.0	4.2
3-4	.0	1.8	.2	.0	.0	.0	2.0
5-6	.0	.0	.9	.0	.0	.0	.9
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	6.6	1.3	.0	.0	.0	8.8

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.9	3.1	1.3	.0	.0	.0	5.3
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	.9	3.1	1.3	.0	.0	.0	5.3

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.9	.9	.0	.0	.0	.0	1.8	
1-2	.0	.9	.2	.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	.9	1.8	.2	.0	.0	.0	2.9	86.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	19.8	5.2	.0	.0	.0	.0	25.0	
1-2	.9	39.7	8.6	.0	.0	.0	49.1	
3-4	.0	10.3	12.1	.0	.0	.0	22.4	
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	20.7	55.2	24.1	.0	.0	.0	100.0	116

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	8.0	34.4	23.9	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	110	2
6-7	.0	1.2	4.3	1.8	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	4
8-9	.0	.0	1.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	14.1	3.7	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	1
TOTAL	36	64	53	7	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	163	2
PCT	22.1	39.3	32.5	4.3	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1912-1971
(OVER-ALL) 1855-1971

AREA 0009 KARIMATA STRAIT
1.8S 107.9E

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	5.6	.0	4.2	.0	.0	.0	.0	9.7	4.2	8.3	.0	.0	.0	.0	.0	77.8
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.5	.0	.0	.0	.0	.0	87.5
E	.0	.0	.0	.0	.0	.0	.0	.0	12.5	.0	.0	.0	.0	.0	.0	87.5
SE	3.9	5.2	.0	.0	.0	.0	.0	9.1	.0	3.2	.0	.0	.0	.0	.0	87.7
S	3.0	3.0	.0	.0	.0	.0	.0	6.1	.0	5.3	.0	.0	.0	.0	.0	88.6
SW	3.9	1.3	.0	.0	.0	.0	2.6	7.7	.6	8.4	.0	.0	.0	.0	.0	85.6
W	6.3	4.2	.0	.0	.0	.0	.0	10.6	7.4	7.9	.0	.0	.0	.0	.0	74.1
NW	2.3	1.1	.6	.0	.0	.0	.0	4.0	5.7	1.1		.0	.0	.0	.0	89.1
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	12.5	.0	.0	.0	.0	.0	87.5
TOT PCT	3.5	2.3	.4	.0	.0	.0	.4	6.6	3.1	6.2	.0	.0	.0	.0	.0	84.6
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 BLWG	DUST SNOW	NO SIG WEA
00603	5.2	2.6	1.3	.0	.0	.0	.0	9.1	2.6	2.6	.0	.0	.0	.0	.0	85.7
06609	2.7	6.8	.0	.0	.0	.0	1.4	11.0	4.1	1.4	.0	.0	.0	.0	.0	84.9
12615	3.4	.0	.0	.0	.0	.0	.0	3.4	1.7	5.1	.0	.0	.0	.0	.0	89.8
18621	1.5	1.5	.0	.0	.0	.0	.0	3.0	3.0	16.7	.0	.0	.0	.0	.0	77.3
TOT PCT	3.3	2.9	.4	.0	.0	.0	.4	6.9	2.9	6.2	.0	.0	.0	.0	.0	84.4
TOT OBS:	275															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	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	5.0	.8	.0	.0	.0		7.5	6.2	8.3	4.2	7.7	6.8	6.3	.0	6.2	10.9
NE	2.1	3.8	.2	.0	.0	.0		6.0	4.8	6.7	4.2	6.8	5.3	3.9	.0	8.7	4.6
E	1.2	3.2	.3	.1	.0	.0		4.9	6.3	7.1	4.2	6.0	5.3	4.7	14.3	1.4	2.9
SE	3.3	7.6	1.3	.0	.0	.0		12.2	5.9	11.9	25.0	10.1	13.7	15.4	35.7	10.1	10.1
S	3.5	8.3	.7	.1	.0	.0		12.7	5.7	12.6	33.3	13.7	12.6	11.0	35.7	11.7	9.5
SW	2.4	11.3	1.0	.1	.0	.0		14.9	6.5	15.8	29.2	14.8	13.7	16.7	.0	11.7	15.2
W	2.3	9.8	3.1	.1	.0	.0		15.3	7.5	12.2	.0	16.0	14.7	17.7	.0	17.7	15.8
NW	1.4	11.5	1.2	.0	.0	.0		14.2	6.9	13.3	.0	13.5	17.4	14.0	14.3	17.0	12.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	12.3							12.3	.0	12.1	.0	11.4	10.5	10.2	.0	15.6	18.4
TOT OBS	231	462	66	3	0	0	762		5.6	141	12	184	95	127	7	109	87
TOT PCT	30.3	60.6	8.7	.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	5.0	2.4	.1	.0	.0		7.5	6.2	8.0	7.4	6.0	8.3
NE	4.9	1.2	.0	.0	.0		6.0	4.8	6.5	6.3	3.7	6.9
E	3.2	1.5	.2	.0	.0		4.9	6.3	6.9	5.7	5.2	2.0
SE	8.1	4.0	.1	.0	.0		12.2	5.9	12.9	11.3	16.4	10.1
S	8.8	3.7	.0	.1	.0		12.7	5.7	14.2	13.4	12.3	10.7
SW	8.8	5.7	.3	.0	.0		14.9	6.5	16.8	14.4	15.9	13.3
W	7.8	7.1	.3	.0	.0		15.3	7.5	11.3	15.6	16.8	16.8
NW	8.0	6.0	.1	.0	.0		14.2	6.9	12.3	14.8	14.0	15.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	12.3						12.3	.0	11.1	11.1	9.7	16.8
TOT OBS	510	242	9	1	0	762		5.6	153	279	134	196
TOT PCT	66.9	31.8	1.2	.1	.0		100.0		100.0	100.0	100.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1912-1971
(OVER-ALL) 1855-1971

AREA 0009 KARIMATA STRAIT
1.8S 107.9E

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	11.1	22.2	59.5	7.2	.0	.0	.0	5.5	100.0	153
06&09	11.1	14.3	65.2	8.6	.7	.0	.0	5.9	100.0	279
12&15	9.7	19.4	61.9	8.2	.7	.0	.0	5.6	100.0	134
18&21	16.8	18.9	54.1	10.2	.0	.0	.0	5.3	100.0	196
TOT	94	137	462	66	3	0	0	5.6		762
PCT	12.3	18.0	60.6	8.7	.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	.4	1.8	3.4	1.5		5.6
NE	.0	.6	3.9	.0		5.7
E	.0	.5	1.8	.6		6.0
SE	.0	.0	4.8	3.1		6.9
S	1.2	1.9	3.1	3.9		5.8
SW	.1	1.8	8.7	6.0		6.4
W	1.6	1.2	12.4	7.3		6.3
NW	1.3	1.2	9.1	4.5		5.8
VAR	.0	.0	.0	.0		.0
CALM	1.8	3.6	4.8	1.8		5.0
TOT OBS	11	21	87	48	167	6.0
TOT PCT	6.6	12.6	52.1	28.7	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	.4	.4	.0	.4	.0	.4	.0	5.4	
NE	.0	.0	.0	.0	.1	.0	.6	.0	.6	.0	3.1	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	
SE	.0	.0	.0	.6	3.0	1.2	.0	.0	.0	.0	3.1	
S	.6	.0	.0	1.2	.0	.0	.0	.0	.0	.0	8.2	
SW	.0	.0	.0	3.3	.1	2.8	.1	.0	.0	.0	10.2	
W	.0	.0	.0	3.1	3.9	2.4	1.0	.0	.0	.0	12.1	
NW	.0	.0	.0	.9	1.3	3.1	1.9	.0	.1	.0	9.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	1.8	1.2	1.2	.0	.0	.0	7.8	
TOT OBS	1	0	0	16	18	18	8	0	2	0	104	167
TOT PCT	.6	.0	.0	9.6	10.8	10.8	4.8	.0	1.2	.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 >500YD	* 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	4.0	5.8	5.8	5.8	5.8	5.8	5.8	5.8
* OR >2000	13.3	16.2	16.2	16.2	16.2	16.2	16.2	16.2
* OR >1000	21.4	26.6	27.2	27.2	27.2	27.2	27.2	27.2
* OR >600	28.3	35.8	37.0	37.0	37.0	37.0	37.0	37.0
* OR >300	28.3	35.8	37.0	37.0	37.0	37.0	37.0	37.0
* OR >150	28.3	35.8	37.0	37.0	37.0	37.0	37.0	37.0
* OR > 0	28.3	35.8	37.0	37.6	37.6	37.6	37.6	37.6
TOTAL	49	62	64	65	65	65	65	65

TOTAL NUMBER OF OBS: 173 PCT FREQ NH <5/8: 62.4

TABLE 74

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
2.1	8.9	17.4	18.9	15.3	10.5	7.9	11.1	7.9	.0	190

PERIOD: (PRIMARY) 1912-1971
(OVER-ALL) 1955-1971

AREA 0009 KARIMATA STRAIT
1.8S 107.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR 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	.4	.0	.0	.0	.0	.0	.4	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	
	TOT %	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.8	
	PCP	.4	.0	.0	.0	.0	.0	.4	.0	.0	.0	.8	
2<5	NO PCP	.0	.0	.0	.4	.2	1.0	.0	.4	.0	.0	1.9	
	TOT %	.4	.0	.0	.4	.2	1.0	.4	.4	.0	.0	2.7	
	PCP	.0	.0	.0	.2	.4	.6	1.2	.0	.0	.0	2.3	
5<10	NO PCP	.3	.0	1.0	5.2	3.3	1.6	4.3	4.5	.0	1.9	22.1	
	TOT %	.3	.0	1.0	5.4	3.7	2.2	5.4	4.5	.0	1.9	24.4	
	PCP	.3	.0	.0	1.2	.0	.6	.4	.7	.0	.0	3.1	
10+	NO PCP	6.0	3.1	2.1	7.9	8.2	11.1	11.7	11.3	.0	7.4	69.0	
	TOT %	6.3	3.1	2.1	9.1	8.2	11.7	12.1	12.0	.0	7.4	72.1	
	TOT OBS												258
	TOT PCT	7.0	3.1	3.1	14.9	12.5	14.5	16.3	16.5	.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	.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	.2	.0	.0	.0	.2	.0	.0	.0	.4	
1<2	4-10	.0	.0	.0	.0	.0	.0	.2	.0	.0		.2	
	11-21	.0	.0	.0	.0	.4	.0	.0	.0	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.2	.0	.4	.0	.4	.0	.0	.0	1.1	
	0-3	.0	.0	.0	.2	.0	.0	.1	.1	.0	.0	.4	
2<5	4-10	.2	.0	.0	.0	.0	.4	.2	.2	.0		1.1	
	11-21	.0	.0	.0	.0	.1	.1	.2	.2	.0		.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.0	.0	.2	.1	.6	.6	.6	.0	.0	2.2	
	0-3	.2	.0	.0	.2	.4	.2	1.2	.4	.0	2.0	4.7	
5<10	4-10	.1	.0	.0	2.1	1.7	1.6	1.5	2.6	.0		9.6	
	11-21	.0	.0	.3	1.0	.1	.4	1.3	.6	.0		3.8	
	22+	.0	.0	.2	.0	.0	.0	.0	.0	.0		.2	
	TOT %	.3	.0	.6	3.3	2.2	2.3	4.0	3.6	.0	2.0	18.2	
	0-3	2.0	2.1	.7	2.6	2.6	1.6	.3	.8	.0	10.7	23.3	
10+	4-10	4.3	2.6	2.9	7.1	5.8	8.3	8.7	9.4	.0		49.1	
	11-21	.5	.1	.0	.9	.2	1.2	1.9	1.1	.0		6.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	6.8	4.8	3.6	10.6	8.6	11.2	10.9	11.4	.0	10.7	78.4	
	TOT OBS												450
	TOT PCT	7.3	4.8	4.3	14.1	11.4	14.0	15.9	15.5	.0	12.7	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1912-1971
(OVER-ALL) 1855-1971

AREA 0009 KARIMATA STRAIT
1.8S 107.9E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	8.9	10.7	7.1	5.4	.0	1.8	.0	33.9	66.1	56
06&09	2.1	.0	.0	8.5	8.5	12.8	8.5	.0	.0	.0	40.4	59.6	47
12&15	.0	.0	.0	9.5	9.5	4.8	2.4	.0	2.4	.0	28.6	71.4	42
18&21	.0	.0	.0	10.3	12.8	15.4	.0	.0	.0	.0	38.5	61.5	39
TOT	1	0	0	17	19	18	8	0	2	0	65	119	184
PCT	.5	.0	.0	9.2	10.3	9.8	4.3	.0	1.1	.0	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
00&03	.0	.0	.9	1.8	14.7	82.6	109
06&09	.0	.0	1.4	2.8	21.4	74.5	145
12&15	.0	.0	2.2	2.2	18.9	76.7	90
18&21	.0	.0	.0	1.6	18.0	80.3	122
TOT	0	0	5	10	86	365	466
PCT	.0	.0	1.1	2.1	18.5	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 <500YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	9.4	26.4	64.2	53
06&09	2.3	2.3	11.6	32.6	55.8	43
12&15	.0	.0	10.3	20.5	69.2	39
18&21	.0	.0	13.2	26.3	60.5	38
TOT	1	1	19	46	108	173
PCT	.6	.6	11.0	26.6	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
85/89	.0	.0	.0	.0	2.2	2.2	.0	.0	8	4.5
80/84	.0	.0	.0	.0	1.[illegible]	33.7	41.6	10.7	155	87.1
75/79	.0	.0	.0	.0	.0	1.1	6.2	1.1	15	8.4
TOTAL	0	0	0	0	6	66	85	21	178	100.0
PCT	.0	.0	.0	.0	3.4	37.1	47.8	11.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	1.1	.0	.0	.6	1.1	.0	.6	.0	1.
	6.5	3.1	3.7	10.7	11.0	11.4	15.2	16.7	.0	9.0
	.6	.0	.0	1.4	1.4	2.1	1.5	.8	.0	.0
	7.0	4.2	3.7	12.1	12.9	14.6	16.7	18.1	.0	10.7

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	95	86	85	82	78	76	76	81.6	152
06&09	92	91	88	83	79	77	75	82.8	281
12&15	88	87	86	82	79	78	77	81.9	132
18&21	89	84	84	82	78	76	75	81.2	194
TOT	95	89	86	82	78	76	75	82.0	759

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	2.0	33.3	51.0	13.7	83	51
06&09	.0	.0	9.8	39.2	47.1	3.9	79	51
12&15	.0	.0	.0	39.5	41.9	18.6	82	43
18&21	.0	.0	.0	32.6	58.1	9.3	82	43
TOT	0	0	6	68	93	21	82	188

PERIOD: (PRIMARY) 1912-1971
(OVER-ALL) 1855-1971

AREA 0009 KARIMATA STRAIT
1.85 107.9E

TABLE 17

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

AIR-SEA TMP DIF	77 80	81 84	85 88	89 92	>92	TOT	# FOG	%G FOG
11/13	.0	.0	.0	.0	.5	1	.0	.5
6	.0	.0	.5	.0	.0	1	.0	.5
4	.0	.0	1.9	.0	.0	4	.0	1.9
3	.0	.0	.5	.5	.0	2	.0	1.0
2	.0	1.0	1.5	.0	.0	5	.0	2.4
1	.0	3.0	1.0	.0	.0	10	.0	4.9
0	.5	17.0	1.9	.0	.0	40	.0	19.4
-1	.0	16.0	1.0	.0	.0	35	.0	17.0
-2	4.9	18.4	.0	.0	.0	48	.0	23.3
-3	4.9	7.3	.0	.0	.0	25	.0	12.1
-4	4.4	2.9	.0	.0	.0	15	.0	7.3
-5	3.9	1.5	.0	.0	.0	11	.0	5.3
-6	1.9	.0	.0	.0	.0	4	.0	1.9
-7/-8	2.4	.0	.0	.0	.0	5	.0	2.4
TOTAL	47	140	17	1	1	206	0	206
PCT	22.8	68.0	8.3	.5	.5	100.0		100.0

PERIOD: (OVER-ALL) 1962-1971

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	.0	.0	.0	.0	.0	1.0
1-2	1.0	6.0	.0	.0	.0	.0	7.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-49	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.0	6.0	.0	.0	.0	.0	8.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	3.0	.0	.0	.0	.0	.0	3.0
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
41-49	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	3.0	.0	.0	.0	.0	6.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	4.0	.0	.0	.0	.0	5.3
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	1.3	.0	.0	1.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	4.0	.0	1.3	.0	.0	6.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	2.7	.0	.0	.0	.0	4.0
1-2	.0	4.0	1.3	.0	.0	.0	5.3
3-4	.0	.0	1.3	.0	.0	.0	1.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	6.7	2.7	.0	.0	.0	10.7

PERIOD: (OVER-ALL) 1963-1971

NOVEMBER

TABLE 18 (CONT)

AREA 0009 KARIMATA STRAIT
1.8S 107.9E

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	.0	.0	.0	.0	.0	.0
1-2	1.0	5.0	.0	.0	.0	.0	6.0
3-4	.0	1.3	1.3	.0	.0	.0	2.7
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	6.3	1.3	.0	.0	.0	8.7

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	2.7	.0	.0	.0	.0	4.0
1-2	.3	3.0	.0	.0	.0	.0	3.3
3-4	.0	1.3	1.3	.0	.0	.0	2.7
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	7.0	1.3	.0	.0	.0	10.0

A

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3
1-2	.0	6.3	.0	.0	.0	.0	6.3
3-4	1.3	2.0	1.0	.0	.0	.0	4.3
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	1.3	9.7	1.0	.0	.0	.0	12.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.3	.0	.0	.0	.0	1.3	
1-2	.3	8.7	.0	.0	.0	.0	9.0	
3-4	.0	6.0	.3	.0	.0	.0	6.3	
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	.3	16.0	1.7	.0	.0	.0	18.0	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	27.3	11.7	.0	.0	.0	.0	39.0	
1-2	5.2	35.1	1.3	.0	.0	.0	41.6	
3-4	1.3	10.4	5.2	1.3	.0	.0	18.2	
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	
								77
TOT PCT	33.8	57.1	7.8	1.3	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	9.1	3.8	17.4	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	83	2
6-7	.0	1.5	3.0	4.5	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	5
8-9	.0	.0	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	4
10-11	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	2
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
TOTAL	18.2	2.3	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	0
TOTAL	36	49	30	13	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	132	2
PCT	27.3	37.1	22.7	9.8	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1911-1971
(OVER-ALL) 1856-1971

AREA 0009 KARIMATA STRAIT
1.8S 107.9E

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	4.6	3.4	1.7	.0	.0	.0	.0	9.7	2.6	3.4	.0	.0	.0	.0	.0	85.1
NE	4.6	.0	2.4	.0	.0	.0	.0	7.1	.0	2.4	.0	.0	.0	.0	.0	92.9
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SW	7.4	.0	1.9	.0	.0	.0	.0	9.3	7.4	9.3	.0	.0	.0	.0	.0	74.1
W	10.7	8.1	2.0	.0	.0	.0	.0	20.8	5.4	8.7	.0	.0	.0	.0	.0	67.1
NW	6.6	3.7	.0	.0	.0	.0	.0	10.3	8.1	5.1	.0	.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	.0	.0	.0	.0	.0	.0	.0	.0	11.8	.0	.0	.0	.0	.0	88.2
TOT PCT	6.0	3.5	1.0	.0	.0	.0	.0	10.4	5.0	5.5	.0	.0	.0	.0	.0	79.6
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 WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	5.4	3.6	1.8	.0	.0	.0	.0	10.7	3.6	.0	.0	.0	.0	.0	.0	85.7
06609	10.2	5.1	1.7	.0	.0	.0	.0	16.9	8.5	1.7	.0	.0	.0	.0	.0	74.6
12615	6.1	4.1	.0	.0	.0	.0	.0	10.2	2.0	12.2	.0	.0	.0	.0	.0	75.5
18621	2.4	.0	.0	.0	.0	.0	.0	2.4	4.8	9.5	.0	.0	.0	.0	.0	83.3
TOT PCT	6.3	3.4	1.0	.0	.0	.0	.0	10.7	4.9	5.3	.0	.0	.0	.0	.0	79.6
TOT OBS:	296															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	9.7	4.9	.1	.0	.0		16.0	9.0	18.8	25.0	17.4	15.8	14.2	12.5	15.1	12.7
NE	1.0	2.2	.9	.0	.0	.0		3.6	6.5	5.5	.0	4.5	1.6	1.6	12.5	4.6	2.5
E	.3	.5	.1	.0	.0	.0		.9	5.6	.0	.0	1.2	1.1	.8	12.5	1.0	1.3
SE	.1	1.1	.1	.0	.0	.0		1.3	6.2	2.6	.0	.9	.0	.4	.0	2.0	1.9
S	.7	2.8	.2	.0	.0	.0		3.7	5.7	3.3	.0	5.8	.5	4.7	.0	4.1	1.9
SW	1.8	7.3	2.4	.0	.0	.0		11.5	7.8	9.2	.0	12.6	13.0	12.6	.0	9.7	12.7
W	1.9	13.3	4.9	.7	.1	.0		20.9	9.1	18.2	12.5	17.7	23.9	25.0	12.5	21.7	22.8
NW	2.5	22.5	9.5	.6	.2	.0		34.4	9.2	34.4	62.5	31.0	37.5	39.3	50.0	33.7	38.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.7							7.7	.0	8.1	.0	9.0	6.5	7.3	.0	8.2	6.3
TOT OBS	122	417	152	10	2	0	703		8.0	136	4	167	92	123	4	98	79
TOT PCT	17.4	59.3	21.6	1.4	.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	5.6	9.1	1.4	.0	.0		16.0	9.0	18.9	16.8	14.2	14.0
NE	1.8	1.8	.0	.0	.0		3.6	6.5	5.4	3.5	2.0	3.7
E	.6	.3	.0	.0	.0		.9	5.6	.0	1.2	1.2	1.1
SE	.5	.5	.0	.0	.0		1.3	6.2	2.5	.6	.4	2.0
S	2.8	.9	.1	.0	.0		3.7	5.7	3.2	4.0	4.5	3.1
SW	5.0	6.0	.4	.0	.0		11.5	7.8	8.9	12.7	12.2	11.0
W	8.1	10.6	1.9	.4	.0		20.9	9.1	18.0	19.9	24.6	22.2
NW	11.8	19.6	2.6	.2	.1		34.4	9.2	35.2	33.3	33.9	35.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	7.7						7.7	.0	7.9	8.1	7.1	7.3
TOT OBS	310	343	45	4	1	703		8.0	140	259	127	177
TOT PCT	44.1	48.8	6.4	.6	.1		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1911-1971
(OVER-ALL) 1856-1971

AREA 0009 KARIMATA STRAIT
1.8S 107.9E

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	7.9	12.1	60.7	18.6	.0	.7	.0	7.5	100.0	140
06&09	8.1	8.9	58.3	22.8	1.5	.4	.0	8.2	100.0	239
12&15	7.1	8.7	63.0	18.9	2.4	.0	.0	7.9	100.0	127
18&21	7.3	9.6	57.1	24.3	1.7	.0	.0	8.0	100.0	177
TOT	54	68	417	152	10	2	0	4.0		703
PCT	7.7	9.7	59.3	21.6	1.4	.3	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.0	1.3	14.9	4.7		6.2
NE	.2	.7	2.5	1.0		6.5
E	.0	.7	.0	.0		3.0
SE	.0	.0	.0	.7		8.0
S	.0	.0	3.7	1.3		7.0
SW	.3	.7	4.9	1.5		6.3
W	2.2	1.3	8.2	5.5		6.2
NW	.3	6.0	18.3	8.1		6.1
VAR	.0	.0	.0	.0		.0
CALM	.0	2.7	6.0	1.3		5.6
TOT OBS	6	20	87	36	149	6.1
TOT PCT	4.0	13.4	58.4	24.2	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	.7	.0	.5	3.0	1.8	.5	.0	.0	.0	15.3	
NE	.0	.0	.7	.2	1.3	.0	.0	.0	.0	.0	2.2	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	
SE	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	
S	.0	.0	.7	1.3	.7	.5	.0	.0	.0	.0	1.8	
SW	.0	.0	.0	.7	.7	.3	.0	.0	.0	.0	5.7	
W	.0	.0	.5	2.0	2.7	.5	.0	.0	.0	.0	11.6	
NW	.0	.0	.2	4.0	5.0	.2	.2	.0	.0	.7	22.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.7	2.0	.7	.0	.0	.0	.0	6.7	
TOT OBS	0	1	3	15	23	6	1	0	0	1	99	149
TOT PCT	.0	.7	2.0	10.1	15.4	4.0	.7	.0	.0	.7	66.4	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >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	.7	1.3	1.3	1.3	1.3	1.3	1.3	1.3
* OR >2000	5.3	6.6	6.6	6.6	6.6	6.6	6.6	6.6
* OR >1000	15.9	20.5	21.2	21.2	21.2	21.2	21.2	21.2
* OR >600	25.2	30.5	31.1	31.1	31.1	31.1	31.1	31.1
* OR >300	26.5	32.5	33.1	33.1	33.1	33.1	33.1	33.1
* OR >150	27.2	33.1	33.8	33.8	33.8	33.8	33.8	33.8
* OR > 0	27.2	33.1	33.8	33.8	33.8	33.8	33.8	33.8
TOTAL	41	50	51	51	51	51	51	51

TOTAL NUMBER OF OBS: 151 PCT FREQ NH <5/8: 66.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
1.2	5.5	22.0	20.1	15.2	12.2	10.4	8.5	4.9	.0	164

DECEMBER

PERIOD: (PRIMARY) 1911-1971
(OVER-ALL) 1856-1971

AREA 0009 KARIMATA STRAIT
1.8S 107.9E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.4	.0	.0	.0	.0	.0	.0	.6	.0	.0	1.0	
	TOT %	.4	.0	.0	.0	.0	.0	.0	.6	.0	.0	1.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.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	.5	.0	.5	.0	.0	1.0	
	TOT %	.0	.0	.0	.0	.0	.5	.0	.5	.0	.0	1.0	
5<10	PCP	1.1	.1	.0	.0	.0	.5	2.5	2.3	.0	.0	6.5	
	NO PCP	3.3	.8	.5	.0	.5	.3	2.5	2.8	.0	.5	11.0	
	TOT %	4.4	.9	.5	.0	.5	.8	5.0	5.0	.0	.5	17.5	
10+	PCP	1.0	.3	.0	.0	.0	.1	1.4	1.3	.0	.0	4.0	
	NO PCP	16.1	4.1	.8	.5	3.3	5.4	12.3	26.1	.0	8.0	76.5	
	TOT %	17.1	4.4	.8	.5	3.3	5.5	13.6	27.4	.0	8.0	80.5	
	TOT OBS												200
	TOT PCT	21.9	5.3	1.3	.5	3.8	6.8	18.6	33.5	.0	8.5	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	.2	.0	.0	.0	.0	.0	.0	.6	.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 %	.2	.0	.0	.0	.0	.0	.0	.6	.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	.3	.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	.0	.0	.0	.3	.0	.0	.0	.3	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
	4-10	.5	.0	.0	.3	.3	.3	.1	.1	.0		1.6	
	11-21	.1	.0	.0	.0	.0	.0	.0	.1	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.7	.0	.0	.3	.3	.3	.1	.5	.0	.0	2.1	
5<10	0-3	.3	.2	.3	.0	.0	.0	.0	.0	.0	.3	1.0	
	4-10	2.0	.5	.0	.0	.3	.3	2.0	2.9	.0		7.9	
	11-21	.7	.0	.0	.0	.0	.1	1.2	.7	.0		2.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	2.9	.7	.3	.0	.3	.4	3.1	3.5	.0	.3	11.5	
10+	0-3	1.0	1.2	.0	.0	.7	1.2	1.8	3.1	.0	8.1	17.0	
	4-10	10.3	2.1	.4	.4	2.4	5.4	11.4	20.5	.0		52.9	
	11-21	6.2	.9	.0	.0	.0	.5	2.0	5.7	.0		15.2	
	22+	.2	.0	.0	.0	.0	.0	.0	.1	.0		.3	
	TOT %	17.6	4.1	.4	.4	3.0	7.1	15.2	29.4	.0	8.1	85.3	
	TOT OBS												382
	TOT PCT	21.4	4.8	.7	.7	3.5	7.7	18.8	34.0	.0	8.4	100.0	

DECEMBER

PERIOD: (PRIMARY) 1911-1971
(OVER-ALL) 1856-1971

AREA 0009 KARIMATA STRAIT
1.8S 107.9E

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
00E03	.0	.0	4.3	8.5	17.0	4.3	.0	.0	.0	.0	34.0	66.0	47
06E09	.0	2.2	.0	8.7	13.0	4.3	.0	.0	.0	.0	28.3	71.7	46
12E15	.0	.0	.0	8.6	14.3	5.7	2.9	.0	.0	2.9	34.3	65.7	35
18E21	.0	.0	3.4	13.8	13.8	6.9	.0	.0	.0	.0	37.9	62.1	29
TOT	0	1	3	15	23	8	1	0	0	1	52	105	157
PCT	.0	.6	1.9	9.6	14.6	5.1	.6	.0	.0	.6	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	.0	.0	5.4	14.0	80.6	93
06E09	.0	.0	.7	.7	9.0	89.6	134
12E15	.0	2.7	.0	1.4	12.2	83.8	74
18E21	.0	1.2	.0	1.2	12.8	84.9	86
TOT	0	3	1	8	45	330	387
PCT	.0	.8	.3	2.1	11.6	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 <500YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	4.5	15.9	18.2	65.9	44
06E09	.0	2.3	11.4	18.2	70.5	44
12E15	.0	.0	8.8	26.5	64.7	34
18E21	.0	3.4	17.2	20.7	62.1	29
TOT	0	4	20	31	100	151
PCT	.0	2.6	13.2	20.5	66.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.0	.7	.0	.0	1	.7
85/89	.0	.0	.0	.0	2.0	2.7	2.7	.0	11	7.5
80/84	.0	.0	.0	.0	.0	27.9	40.8	10.9	117	79.6
75/79	.0	.0	.0	.0	.0	.0	6.1	6.1	18	12.2
TOTAL	0	0	0	0	3	46	73	25	147	100.0
PCT	.0	.0	.0	.0	2.0	31.3	49.7	17.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0
	3.4	.0	.0	.0	.5	.2	.7	.7	.0	2.0
	15.1	4.6	.7	.7	3.9	5.8	13.6	27.7	.0	7.5
	1.7	1.0	.0	.0	.7	.9	4.6	3.4	.0	.0
	20.9	5.6	.7	.7	5.1	6.8	18.9	31.8	.0	9.5

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	87	85	84	81	77	74	74	81.1	139
06E09	92	90	86	82	77	72	70	81.8	258
12E15	92	91	84	81	78	77	76	81.6	127
18E21	87	84	83	81	77	75	74	80.8	178
TOT	92	87	85	81	77	74	70	81.4	702

TABLE 16

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	29.5	54.5	15.9	83	44
06E09	.0	.0	4.8	31.0	42.9	21.4	82	42
12E15	.0	.0	3.0	33.3	51.5	12.1	81	33
18E21	.0	.0	.0	31.3	53.1	15.6	83	32
TOT	0	0	3	47	76	25	82	151

DECEMBER

PERIOD: (PRIMARY) 1911-1971
(OVER-ALL) 1856-1971

AREA 0009 KARIMATA STRAIT
1.8S 107.9E

TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	.6	1	.0	.6
7/8	.0	.0	1.3	.0	.0	2	.0	1.3
5	.0	.0	3.2	.0	1.3	7	.0	4.4
4	.0	.0	.0	1.3	.0	2	.0	1.3
3	.0	.0	.6	1.9	.0	4	.0	2.5
2	.0	.6	3.8	.6	.0	8	.0	5.1
1	.0	.6	7.0	9.8	.0	18	.0	11.4
0	.0	.0	13.3	.6	.0	22	.0	13.9
-1	.0	1.3	18.4	1.9	.0	34	.0	21.5
-2	.0	1.9	12.7	.0	.0	23	.0	14.6
-3	.0	4.4	6.3	.0	.0	17	.0	10.8
-4	.0	3.2	2.5	.0	.0	9	.0	5.7
-5	.0	4.4	.6	.0	.0	8	.0	5.1
-6	.0	.6	.6	.0	.0	2	.0	1.3
-9/-10	.6	.0	.0	.0	.0	1	.0	.6
TOTAL	1		111		3		0	158
		27		16		158		
PCT	.6	17.1	70.3	10.1	1.9	100.0		100.0

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	1.9	.0	.0	.0	.0	3.1
1-2	.0	10.6	1.7	.0	.0	.0	12.2
3-4	.0	1.9	3.3	.8	.0	.0	6.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	1.1	.0	.0	.0	1.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	14.4	6.1	.8	.0	.0	22.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	1.1	2.5	.0	.0	.0	.0	3.6
3-4	.0	.0	1.1	.0	.0	.0	1.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	2.8	1.1	.0	.0	.0	5.0

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) 1963-1971

DECEMBER

TABLE 18 (CONT)

AREA 0009 KARIMATA STRAIT
1.8S 107.9E

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	4.4	.0	.0	.0	.0	4.4	.3	3.3	.0	.0	.0	.0	3.6
3-4	.0	2.2	.0	.0	.0	.0	2.2	.0	2.2	1.1	.0	.0	.0	3.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.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	6.7	.0	.0	.0	.0	6.7	.3	5.8	1.4	.0	.0	.0	7.5

	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	1.1	1.1	.0	.0	.0	.0	2.2	.0	3.3	.0	.0	.0	.0	3.3	
1-2	.8	6.4	.0	.0	.0	.0	7.2	3.3	5.0	3.9	.0	.0	.0	12.2	
3-4	.0	1.1	.0	.0	.0	.0	1.1	.0	8.1	3.3	.3	.0	.0	11.7	
5-6	.0	.8	.8	.0	.0	.0	1.7	.0	.0	2.2	.0	.0	.0	2.2	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.9	9.4	.8	.0	.0	.0	12.2	3.3	16.4	9.4	.3	.0	.0	29.4	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	19.6	6.5	.0	.0	.0	.0	26.1	
1-2	6.5	31.5	5.4	.0	.0	.0	43.5	
3-4	.0	15.2	8.7	1.1	.0	.0	25.0	
5-6	.0	1.1	3.3	.0	.0	.0	4.3	
7	.0	.0	1.1	.0	.0	.0	1.1	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	26.1	54.3	18.5	1.1	.0	.0	100.0	92

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	6.6	28.1	24.4	5.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	81	2
6-7	.0	1.7	.8	6.6	.8	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	5
8-9	.0	.8	.8	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.8	.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	15.7	.8	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	0
TOTAL	27	38	37	14	2	2	0	0	1	0	0	0	0	0	0	0	0	0	0	121	2
PCT	22.3	31.4	30.6	11.6	1.7	1.7	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

ANNUAL

PERIOD: (PRIMARY) 1905-1973
(OVER-ALL) 1854-1973

AREA 0009 KARIMATA STRAIT
1.85 108.0E

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	6.4	5.2	2.0	.0	.0	.0	.0	13.6	1.3	2.5	.0	.0	.0	.0	74.5
NE	5.1	1.0	3.5	.0	.0	.0	.0	9.6	2.6	5.6	2.4	.0	.0	.0	80.2
E	1.9	2.0	2.7	.0	.0	.0	.0	6.4	2.5	4.4	.1	.0	.3	.0	86.9
SE	3.4	1.0	1.3	.0	.0	.0	.0	5.6	2.0	2.7	.8	.0	.9	.0	88.7
S	3.6	1.4	.5	.0	.0	.0	.0	5.5	1.1	3.9	.1	.0	.5	.0	89.5
SW	9.7	6.1	3.5	.0	.0	.0	.2	17.9	5.1	4.9	.0	.0	.2	.3	72.3
W	7.5	3.6	2.1	.0	.0	.0	.0	13.1	5.2	2.9	.0	.4	.0	.0	78.7
NW	8.9	4.0	.6	.0	.0	.0	.0	13.6	10.1	5.9	.5	.1	.8	.0	69.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.4	3.0	.8	.0	.0	.0	.0	10.1	.7	12.3	.0	.0	.0	.0	76.8
TOT PCT	4.0	2.1	1.0	.0	.0	.0	*	7.2	2.7	4.7	.6	*	.3	*	84.8
TOT OBS:	3277														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	4.5	2.9	1.6	.0	.0	.0	.0	8.9	4.0	1.3	.6	.0	.2	.0	85.1
06&09	4.6	3.2	1.0	.0	.0	.0	.1	8.9	3.1	.3	1.0	.1	.3	.0	86.6
12&15	2.4	1.2	.6	.0	.0	.0	.0	4.3	1.1	7.0	.4	.0	.1	.0	87.2
18&21	4.2	1.1	1.0	.0	.0	.0	.0	6.2	2.0	12.0	.4	.0	.6	.1	79.5
TOT PCT	4.0	2.2	1.1	.0	.0	.0	*	7.3	2.6	4.9	.6	*	.3	*	84.6
TOT OBS:	3399														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	5.6	1.8	.1	*	.0		8.8	6.7	8.9	10.4	10.0	9.1	8.8	7.6	6.8	8.0
NE	1.0	3.0	.5	*	.0	.0		4.5	6.5	4.5	3.2	5.5	4.6	3.7	4.7	4.4	3.5
E	1.4	7.4	2.5	.1	.0	.0		11.4	7.2	12.3	14.0	13.0	12.0	9.6	12.0	9.3	10.1
SE	1.8	15.6	8.2	.3	.0	.0		25.9	7.6	27.9	28.7	25.2	24.5	25.6	29.1	26.3	25.3
S	1.8	7.1	1.4	*	.0	.0		10.5	6.6	10.4	11.1	9.3	10.4	11.1	14.1	11.8	11.1
SW	1.1	5.0	.9	*	.0	.0		7.0	7.1	5.8	7.8	6.8	8.9	7.8	7.8	6.1	7.9
W	1.4	4.1	1.8	.1	*	.0		9.4	7.9	8.0	11.0	8.6	9.4	10.0	12.0	10.5	10.7
NW	1.5	9.8	3.2	.1	*	.0		14.7	7.6	15.1	13.3	14.3	15.5	14.9	11.8	14.9	14.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.8							7.8	.0	7.1	.5	7.3	5.5	8.6	.8	10.0	9.5
TOT OBS							8796		7.5	1521	134	2328	1007	1470	106	1277	953
TOT PCT	19.1	59.6	20.5	.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	4.5	.3	*	.0		8.8	6.7	9.0	9.7	8.7	7.3
NE	2.7	1.7	.1	.0	.0		4.5	6.5	4.4	5.2	3.8	4.0
E	4.8	6.1	.5	*	.0		11.4	7.2	12.5	12.7	9.7	9.7
SE	8.0	16.0	1.8	.1	.0		25.9	7.6	28.0	25.0	25.8	25.9
S	5.6	4.6	.3	*	.0		10.5	6.6	10.4	9.6	11.3	11.5
SW	3.9	3.0	.2	.0	.0		7.0	7.1	5.9	7.4	7.8	6.9
W	4.5	4.3	.5	*	*		9.4	7.9	8.3	8.9	10.1	10.6
NW	5.9	8.2	.6	*	*		14.7	7.6	14.9	14.7	14.7	14.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	7.8						7.8	.0	6.6	6.8	6.0	9.8
TOT OBS						8796		7.5	1655	3335	1576	2230
TOT PCT	47.0	48.4	4.3	.2	*		100.0		100.0	100.0	100.0	100.0

ANNUAL

PERIOD: (PRIMARY) 1905-1973
(OVER-ALL) 1854-1973

AREA 0009 KARIMATA STRAIT
1.8S 108.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
				WIND SPEED (KNOTS)						
00603	6.6	11.9	61.4	19.8	.3	.1	.0	7.5	100.0	1655
06609	6.8	11.4	59.2	21.5	1.0	.1	.0	7.7	100.0	3335
12615	8.0	11.4	58.8	21.1	.7	.0	.0	7.5	100.0	1576
18621	9.8	10.7	59.6	19.3	.7	.0	.0	7.2	100.0	2230
TOT								7.5		8796
PCT	7.8	11.3	59.6	20.5	.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 6 OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.1	1.6	5.2	2.0		5.0
NE	.4	.8	2.0	1.1		5.7
E	2.0	2.6	4.8	2.1		4.9
SE	4.6	8.0	10.3	3.8		5.6
S	1.4	2.1	3.5	2.3		5.5
S*	.3	.8	2.6	1.9		6.1
*	.7	1.3	4.4	3.2		5.7
N*	1.0	2.7	7.6	3.9		6.2
VAR	.0	.0	.0	.0		.0
CALM	1.4	.6	3.1	1.7		5.3
TOT OBS					2084	5.4
TOT PCT	12.9	21.5	43.5	22.1	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.1	*	.8	1.2	.5	.3	*	*	.0	7.0	
NE	.0	.0	.2	.3	.4	.2	.3	*	*	.1	2.9	
E	.1	.0	.2	.5	1.3	.7	.1	.0	.0	.1	8.4	
SE	.0	.0	.3	1.6	2.3	1.2	.1	.1	*	.1	21.0	
S	.1	.0	.2	.7	.7	.7	*	.0	.0	.0	6.8	
S*	.0	.0	.0	.5	.7	.6	.1	.0	.0	.0	3.6	
*	.0	*	.2	1.1	1.3	.8	.2	.0	*	.0	5.9	
N*	.0	*	.2	1.0	2.5	1.1	.3	.0	*	.2	10.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.1	.7	1.0	.3	.2	*	.1	*	5.3	
TOT OBS												2084
TOT PCT	.2	.1	1.5	7.1	11.5	6.0	1.8	.2	.5	.4	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	.7	.8	.8	.8	.8	.8	.8	.8
* OR >5000	.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0
* OR >3500	2.2	2.7	2.7	2.7	2.7	2.7	2.7	2.7
* OR >2000	7.2	8.5	8.7	8.7	8.7	8.8	8.8	8.8
* OR >1000	16.3	19.3	19.9	20.0	20.1	20.1	20.1	20.1
* OR >600	21.2	25.9	26.8	26.9	27.0	27.1	27.1	27.1
* OR >300	22.1	27.2	28.2	28.3	28.4	28.5	28.5	28.5
* OR >150	22.2	27.3	28.3	28.4	28.5	28.6	28.6	28.6
* OR > 0	22.2	27.5	28.5	28.6	28.7	28.8	28.8	28.8

TOTAL NUMBER OF OBS: 2143 PCT FREQ NH <5/8: 71.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
3.5	13.3	21.3	19.9	13.0	7.9	7.4	5.7	8.0	.1	2315

ANNUAL

PERIOD: (PRIMARY) 1905-1973
(OVER-ALL) 1854-1973

AREA 0009 KARIMATA STRAIT
1.85 108.0E

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	*	
	NO PCP	.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	*	*	*	.2	*	*	.0	.1	.0	.0	.5	
	TOT %	*	*	*	.2	*	*	*	.2	.0	*	.6	
1<2	PCP	*	.0	*	*	*	*	*	*	.0	.0	.2	
	NO PCP	.0	.1	.0	.1	.1	*	*	.0	.0	.0	.3	
	TOT %	*	.1	*	.1	.1	*	.1	*	.0	.0	.5	
2<5	PCP	.1	*	.0	.1	*	.1	.1	.1	.0	.0	.5	
	NO PCP	.2	*	.3	.3	.2	.2	.2	.2	.0	.1	1.6	
	TOT %	.2	.1	.3	.4	.2	.3	.4	.2	.0	.1	2.1	
5<10	PCP	.4	.2	.3	.5	.3	.3	.6	.6	.0	.1	3.4	
	NO PCP	1.2	.5	1.3	5.8	1.7	1.2	2.0	2.0	.0	.8	16.7	
	TOT %	1.6	.7	1.6	6.4	1.9	1.5	2.5	2.7	.0	1.0	20.0	
10+	PCP	.3	.2	.3	.5	.1	.4	.4	.6	.0	.1	3.0	
	NO PCP	7.4	3.3	8.6	20.9	7.2	3.9	6.3	11.0	.0	5.0	73.8	
	TOT %	7.7	3.5	8.9	21.5	7.3	4.3	6.8	11.6	.0	5.1	76.7	
	TOT OBS												3269
	TOT PCT	9.6	4.4	10.9	28.6	9.6	6.2	9.8	14.7	.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	.1	*	.0	*	*	.0		.1	
	11-21	.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	.2	
1/2<1	0-3	.0	.0	.1	.0	.0	.0	.0	*	.0	*	.1	
	4-10	*	.0	.0	*	*	*	.0	*	.0		.1	
	11-21	.0	*	.0	.1	.0	.0	*	.1	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	.1	.2	*	*	*	.1	.0	*	.5	
1<2	0-3	.0	*	*	*	*	.0	*	.0	.0	.0	.1	
	4-10	*	*	.0	.1	*	*	.1	.1	.0		.4	
	11-21	*	.0	*	*	*	*	*	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.1	*	.1	.1	*	.1	.1	.0	.0	.6	
2<5	0-3	*	*	.1	.1	*	*	*	.1	.0	.1	.4	
	4-10	.2	*	.1	.3	.1	.1	.2	.1	.0		1.3	
	11-21	*	*	.1	.2	*	*	.1	*	.0		.4	
	22+	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	TOT %	.3	.1	.3	.5	.2	.2	.3	.2	.0	.1	2.1	
5<10	0-3	.2	.2	.2	.2	.3	.1	.2	.2	.0	.8	2.4	
	4-10	.7	.3	.7	2.3	.9	.9	1.0	1.5	.0		8.4	
	11-21	.3	.1	.4	2.0	.3	.3	.5	.5	.0		4.4	
	22+	.0	.0	*	.1	.0	.0	*	.0	.0		.1	
	TOT %	1.3	.6	1.3	4.6	1.5	1.3	1.8	2.1	.0	.8	15.3	
10+	0-3	1.2	.8	1.1	1.4	1.1	.8	1.0	1.1	.0	6.7	15.1	
	4-10	5.2	2.4	6.5	13.5	5.6	3.4	4.6	8.5	.0		49.6	
	11-21	1.7	.3	2.1	7.3	1.2	.4	1.0	2.4	.0		16.3	
	22+	*	*	*	.1	*	*	*	.1	.0		.3	
	TOT %	8.0	3.5	9.7	22.3	8.0	4.6	6.5	12.0	.0	6.7	81.3	
	TOT OBS												5240
	TOT PCT	9.0	4.2	11.4	27.7	9.8	6.2	8.8	14.7	.0	7.6	100.0	

ANNUAL

PERIOD: (PRIMARY) 1905-1973
(OVER-ALL) 1854-1973

AREA 0000 MARIHATA STRAIT
1.8S 108.0E

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
00Z03	.4	.0	1.8	7.4	12.0	6.3	2.2	.3	.3	.5	31.3	68.7	614
06Z09	.2	.3	1.4	6.5	10.9	5.7	1.5	.0	.2	.1	26.8	73.2	617
12Z15	.0	.2	.4	5.0	[illegible]	4.0	1.6	.2	.6	.7	22.2	77.8	526
18Z21	.3	.0	1.7	7.3	10.4	7.4	1.2	.3	.3	.4	29.3	70.7	506
TOT													2263
PCT	.2	.1	1.3	6.6	10.8	5.8	1.6	.2	.3	.4	27.4	72.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00Z03	.5	.2	.5	2.3	13.6	83.0	1255
06Z09	.1	.6	.5	1.7	14.9	82.3	1664
12Z15	.1	.7	1.0	3.1	16.4	78.7	1080
18Z21	.1	.4	.4	1.6	17.5	80.1	1363
TOT							5362
PCT	.2	.5	.6	2.1	15.5	81.1	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND3+	NH <5/8 AND 3+	TOTAL OBS
00Z03	.4	2.6	10.7	21.6	67.7	586
06Z09	.2	2.5	10.2	16.6	71.2	378
12Z15	.0	.6	6.7	17.5	75.8	495
18Z21	.3	2.0	11.1	19.9	69.0	484
TOT						2143
PCT	.2	1.9	9.7	19.3	70.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	*	.1	.2	.0	.0		.4
85/89	.0	.0	.0	.1	1.5	5.7	1.7	.2		9.2
80/84	.0	.0	.0	.0	1.2	32.0	40.5	7.1		80.9
75/79	.0	.0	.0	.0	.0	1.0	5.4	3.0		9.4
70/74	.0	.0	.0	.0	.0	.0	.1	.1		.2
TOTAL									2394	100.0
PCT	.0	.0	.0	.1	2.8	38.9	47.8	10.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.1	.0	.1	.2	.0	.0	.0	*	.0	.0
85/89	.9	.4	1.8	2.9	.8	.4	.4	.9	.0	.7
80/84	7.4	3.4	8.2	24.3	8.1	4.5	7.1	11.8	.0	6.0
75/79	1.0	.7	[illegible]	1.5	.8	.7	1.8	2.0	.0	.4
70/74	.0	.0	[illegible]	.0	.4	*	*	*	.0	.0
PCT	9.5	4.5	10.8	28.8	9.8	5.7	9.3	14.7	.0	7.1

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	95	87	85	82	78	75	72	81.6	1652
06Z09	95	91	88	83	79	76	70	83.1	3296
12Z15	95	87	85	82	79	77	69	81.9	1581
18Z21	90	84	[illegible]	81	78	76	71	81.2	2233
TOT	95	89	85	82	78	76	69	82.1	8762

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
00Z03	.0	.0	1.5	32.0	55.0	11.3	82	617
06Z09	.0	.4	7.0	47.8	35.6	9.2	79	681
12Z15	.0	.0	1.6	42.4	46.9	9.1	81	571
18Z21	.0	.0	.6	30.8	56.9	11.6	82	614
TOT	0	3	71	963	1192	254	81	2483

PERIOD: (PRIMARY) 1905-1973
(OVER-ALL) 1854-1973

AREA 0009 KARIMATA STRAIT
1.65 [illegible]CE

TABLE 17

PCT 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	*	5	.0	.2
9/10	.0	.0	.0	.0	*	.2	.1	10	.0	.4
7/8	.0	.0	.0	.1	.2	.2	.1	17	.0	.6
6	.0	.0	.0	.1	.2	.2	.0	14	.0	.5
5	.0	.0	.0	.5	.4	.5	.0	35	.0	1.3
4	.0	.0	.0	.5	1.0	.2	.0	46	.0	1.7
3	.0	.0	.0	.8	1.2	.1	.0	60	.0	2.1
2	.0	.0	.2	4.0	1.8	*	.0	169	.1	5.9
1	.0	*	.4	6.5	2.1	*	.0	254	.1	9.1
0	.0	.0	1.7	17.6	1.6	.0	.0	591	.1	20.8
-1	.0	.1	2.3	15.2	1.4	.0	.0	536	.1	19.0
-2	.0	.1	2.8	12.7	.2	.0	.0	449	*	15.8
-3	.0	.0	3.2	3.6	.1	.0	.0	249	.0	8.9
-4	.0	.1	2.5	3.5	.1	.0	.0	175	*	6.2
-5	.0	.1	1.9	1.5	.1	.0	.0	98	.0	3.6
-6	.0	.2	1.1	.4	.0	.0	.0	49	.0	1.7
-7/-8	.0	.2	1.1	.2	.0	.0	.0	41	.0	1.4
-9/-10	*	.2	.2	*	.0	.0	.0	13	.0	.4
-11/-13	*	*	.0	.0	.0	.0	.0	2	.0	.1
TOTAL								2815		
PCT	.1	1.0	17.5	69.4	10.4	1.5	.2	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	.5	*	.0	.0	.0	.9
1-2	.4	4.6	.4	.0	.0	.0	5.7
3-4	.0	1.3	1.4	.1	.0	.0	2.8
5-6	.0	.0	.4	.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	.8	6.3	2.4	.1	.0	.0	9.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.3	*	.0	.0	.0	.8
1-2	.2	2.2	.1	.0	.0	.0	2.6
3-4	.0	.5	.4	*	.0	.0	.9
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	.7	3.1	.6	*	.0	.0	4.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.9	.1	.0	.0	.0	1.6
1-2	.4	4.5	1.1	.0	.0	.0	6.0
3-4	.0	1.3	1.7	.2	.0	.0	3.1
5-6	.0	.1	.6	.0	.0	.0	.7
7	.1	.0	.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	*
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.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	6.7	3.7	.2	.0	.0	11.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.4	.2	.0	.0	.0	1.7
1-2	.1	9.8	3.0	.0	.0	.0	12.9
3-4	.0	3.6	6.4	.0	.0	.0	10.0
5-6	.0	.2	2.5	.1	.0	.0	2.8
7	.0	.1	.4	.2	.0	.0	.7
8-9	.0	.0	.1	.0	.0	.0	.1
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	.3	15.1	12.5	.3	.0	.0	28.1

PERIOD: (OVER-ALL) 1963-1973

ANNUAL

TABLE 18 (CONT)

AREA 0009 KARIMATA STRAIT
1.8S 108.0E

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	.3	.6	.0	.0	.0	.0	.9	.2	.6	.0	.0	.0	.0	.8
1-2	.2	4.4	.1	.0	.0	.0	4.7	.1	2.3	.2	.0	.0	.0	2.5
3-4	.0	1.3	1.1	.0	.0	.0	2.3	.0	.8	.3	.0	.0	.0	1.1
5-6	.0	.3	.7	.0	.0	.0	1.0	.0	.1	.1	.0	.0	.0	.2
7	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	6.6	2.1	.0	.0	.0	9.2	.4	3.8	.6	.0	.0	.0	4.7

	W							NW							
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	.5	.0	.0	.0	.0	.9	.2	1.1	.0	.0	.0	.0	1.3	
1-2	.4	3.4	.5	.0	.0	.0	4.2	.7	5.6	1.5	.0	.0	.0	7.7	
3-4	.1	1.5	.6	.0	.0	.0	2.3	.0	2.4	2.1	.1	.0	.0	4.6	
5-6	.0	.1	.3	.0	.0	.0	.4	.0	.1	.8	.1	.0	.0	1.0	
7	.0	.0	.2	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.1	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.8	5.6	1.6	.0	.0	.0	8.0	.9	9.1	4.6	.1	.0	.0	14.8	90.6

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	5.7	.3	.0	.0	.0	18.9	
1-2	2.9	36.2	6.9	.0	.0	.0	46.1	
3-4	.2	12.5	13.8	.3	.0	.0	26.8	
5-6	.0	.8	5.5	.2	.0	.0	6.5	
7	.1	.1	1.3	.2	.0	.0	1.5	
8-9	.0	.1	.1	.0	.0	.0	.2	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.1	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	16.1	55.4	27.8	.7	.0	.0	100.0	1405

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	6.5	31.3	23.1	5.7	1.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1288	3
6-7	.1	2.4	4.4	4.9	1.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	254	4
8-9	.0	.3	.8	.7	.3	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	4
10-11	.0	.5	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	3
12-13	.0	.0	.4	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	4
>13	.0	.0	.0	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	6
INDET	10.6	1.5	7.0	.3	.2	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	271	1
TOTAL																				1883	3
PCT	17.1	35.9	30.9	11.9	3.4	.7	1	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1905-1973
(OVER-ALL) 185[illegible]-1973

AREA 0009 KARIMATA STRAIT
1.85 108.0E

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	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.7	.8	.7	.0	.1	.0	.3	.1	.0	19	.2
87/88	.2	.5	.5	8.1	7.9	5.0	1.3	.4	.8	1.6	.7	.8	185	2.3
85/86	3.3	4.1	8.1	27.6	36.9	23.8	9.4	3.8	4.4	13.7	14.8	8.3	1060	13.1
83/84	19.0	21.4	36.7	41.2	41.9	44.8	34.8	18.9	27.1	38.2	48.4	38.2	2774	34.1
81/82	49.1	48.8	40.4	19.6	11.0	23.9	47.2	62.8	52.6	39.6	29.7	42.9	3195	39.3
79/80	23.3	19.0	12.4	2.7	1.3	1.6	6.7	12.0	12.1	5.0	5.7	5.8	724	8.9
77/78	4.5	4.8	2.0	.4	.3	.3	.9	1.7	2.4	.6	.6	2.2	135	1.7
75/76	.6	1.2	.0	.0	.0	.0	.1	.3	.5	.0	.0	.2	20	.2
73/74	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	5	.1
71/72	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
69/70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
67/68	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
65/66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
63/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.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	627	588	663	695	610	707	692	782	745	681	690	636	8116	100.0
MEAN	81.3	81.4	82.2	83.8	84.2	83.6	82.5	81.8	81.9	82.8	83.0	82.3	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	1010	1009	1010	1011	1010	1010	1010	243
FEB	1010	1009	1010	1008	1009	1012	1009	1009	1010	278
MAR	1010	1010	1010	1008	1009	1010	1010	1009	1010	319
APR	1010	1008	1009	1008	1009	1010	1009	1008	1009	299
MAY	1010	1010	1009	1008	1009	1009	1009	1008	1009	282
JUN	1010	1010	1010	1008	1009	1009	1010	1009	1010	330
JUL	1010	1010	1010	1009	1009	1011	1010	1010	1010	318
AUG	1011	1010	1010	1008	1009	1010	1010	1009	1010	330
SEP	1011	1010	1010	1008	1010	1009	1010	1010	1010	277
OCT	1010	1011	1009	1010	1010	1012	1010	1010	1010	317
NOV	1010	1009	1009	1008	1009	1009	1009	1009	1009	289
DEC	1010	1010	1009	1008	1009	1010	1009	1009	1009	231
ANN	1010	1010	1010	1008	1009	1010	1010	1009	1010	3513
OBS	714	95	1005	164	640	92	617	186		

PERCENTILES

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

JANUARY

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1856-1973

AREA 0010 SOUTHWEST JAVA SEA
5.5S 108.8E

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	6.3	12.7	.0	.0	.0	.0	.0	19.0	4.8	12.7	.0	.0	.0		.0	63.5
NE	30.0	.0	.0	.0	.0	.0	.0	30.0	.0	.0	.0	.0	.0		.0	70.0
E	20.0	.0	.0	.0	.0	0	.0	20.0	.0	.0	.0	.0	.0		.0	80.0
SE	28.6	.0	.0	.0	.0		.0	28.6	.0	14.3	.0	.0	.0		.0	66.7
S	5.1	20.3	5.1	.0	.0		.0	30.4	.0	7.6	.0	.0	.0		.0	67.1
SW	21.8	3.6	3.6	.0	.0	.0	.0	29.1	3.6	5.5	3.6	.0	1.8		.0	61.8
W	11.5	16.9	.0	.0	.0	.0	.0	28.5	.0	5.2	2.8	.0	.5		.0	65.9
NW	7.7	10.3	1.1	.0	.0	.0	.0	19.1	.3	4.6	.0	.0	.0		.0	76.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	12.5	.0	.0	.0	.0	12.5	.0	.0	.0	.0	.0		.0	87.5
TOT PCT	11.3	12.0	1.4	.0	.0	.0	.0	24.7	.7	5.7	1.4	.0	.4		.0	69.6
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	10.0	11.7	.0	.0	.0	.0	.0	21.7	1.7	3.3	1.7	.0	1.7		.0	70.0
06&09	8.9	15.2	2.5	.0	.0	.0	.0	26.6	1.3	.0	.0	.0	.0		.0	72.2
12&15	11.6	7.2	1.4	.0	.0	.0	.0	20.3	.0	7.2	.0	.0	.0		.0	73.9
18&21	17.6	12.1	1.1	.0	.0	.0	.0	30.8	.0	12.1	3.3	.0	.0		.0	62.6
TOT PCT	12.4	11.7	1.3	.0	.0	.0	.0	25.4	.7	6.0	1.3	.0	.3		.0	69.2
TOT OBS:	299															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	3.2	.6	.4	.0	.0		5.4	7.6	3.5	.0	5.0	6.1	8.8	.0	6.7	2.7
NE	.7	1.5	.1	.0	.0	.0		2.2	6.5	1.0	.0	.9	3.0	4.3	.0	3.4	.5
E	.9	1.4	.1	.0	.0	.0		2.3	5.2	1.5	.0	1.4	3.0	3.1	.0	4.3	.9
SE	1.2	2.1	.0	.0	.0	.0		3.3	4.6	4.5	.0	.5	1.5	2.7	.0	5.6	5.5
S	1.2	4.9	.0	.0	.0	.0		6.1	5.7	7.4	.0	2.7	.5	4.3	12.5	8.8	12.3
SW	1.6	5.5	1.8	.0	.0	.0		8.9	7.2	13.4	8.3	5.7	3.0	5.5	20.8	10.1	15.0
W	3.9	18.2	12.5	1.5	.1	.0		36.3	10.2	37.6	50.0	42.0	40.4	28.5	37.5	29.7	40.5
NW	1.9	14.0	12.5	2.1	.4	.0		30.9	11.4	27.2	41.7	34.5	40.4	40.4	29.2	24.4	17.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.5							4.5	.0	4.0	.0	7.3	2.0	2.3	.0	6.9	5.5
TOT OBS	117	347	188	27	3	0	682		9.0	101	6	110	99	128	12	116	110
TOT PCT	17.2	50.9	27.6	4.0	.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	2.7	2.3	.4	.0	.0		5.4	7.6	3.3	5.5	8.0	4.8
NE	1.0	1.1	.1	.0	.0		2.2	6.5	.9	1.9	3.9	2.0
E	1.7	.6	.1	.0	.0		2.3	5.2	1.4	2.2	2.9	2.7
SE	2.7	.6	.0	.0	.0		3.3	4.6	4.2	1.0	2.5	5.5
S	4.1	2.0	.0	.0	.0		6.1	5.7	7.0	1.7	5.0	10.5
SW	5.1	3.6	.3	.0	.0		8.9	7.2	13.1	4.4	6.8	12.5
W	11.4	18.9	5.6	.4	.0		36.3	10.2	38.3	41.3	29.3	35.0
NW	8.2	16.5	5.5	.5	.1		30.9	11.4	28.0	37.3	39.5	20.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.5						4.5	.0	3.7	4.8	2.1	6.2
TOT OBS	283	310	82	6	1	682		9.0	107	209	140	226
TOT PCT	41.5	45.5	12.0	.9	.1		100.0		100.0	100.0	100.0	100.0

JANUARY

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1856-1973

AREA 0010 SOUTHWEST JAVA SEA
5.5S 108.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.7	15.9	43.9	32.7	1.9	1.9	.0	9.2	100.0	107
06&09	4.8	10.5	46.9	34.0	3.3	.5	.0	9.7	100.0	209
12&15	2.1	11.4	55.7	24.3	6.4	.0	.0	9.2	100.0	140
18&21	6.2	13.7	54.9	21.2	4.0	.0	.0	8.2	100.0	226
TOT	31	86	347	188	27	3	0	9.0		682
PCT	4.5	12.6	50.9	27.6	4.0	.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	1.5	1.5	2.6	1.1		5.0
NE	.0	.0	.0	.0		.0
E	.0	.0	.0	.0		.0
SE	.0	.0	.0	.0		.0
S	.0	.0	2.6	1.1		7.3
SW	.0	3.0	3.7	7.8		6.8
W	2.6	5.6	14.9	13.1		6.3
NW	1.9	4.9	23.9	8.2		6.2
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	4	10	32	21	67	6.3
TOT PCT	6.0	14.9	47.8	31.3	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	5.6	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
S	.0	.0	.0	.0	1.5	1.1	.0	.0	.0	.0	1.1	
SW	.0	.0	.0	3.0	4.5	.4	.0	.0	.0	.0	6.7	
W	.0	.0	3.0	6.0	4.5	4.1	.0	.0	.0	.0	18.7	
NW	.0	.0	1.5	.4	3.0	9.3	.0	.0	.0	.0	24.6	
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	7	9	10	0	0	0	0	38	67
TOT PCT	.0	.0	4.5	10.4	13.4	14.9	.0	.0	.0	.0	56.7	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) • OR >10	• OR >5	• OR >2	• OR >1	• OR >1/2	• OR >1/4	• OR >500YD	• OR >0
• OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
• OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
• OR >3500	.0	.0	.0	.0	.0	.0	.0	.0
• OR >2000	13.4	14.9	14.9	14.9	14.9	14.9	14.9	14.9
• OR >1000	20.9	28.4	28.4	28.4	28.4	28.4	28.4	28.4
• OR >600	28.4	37.3	38.8	38.8	38.8	38.8	38.8	38.8
• OR >300	29.9	40.3	41.8	41.8	41.8	43.3	43.3	43.3
• OR >150	29.9	40.3	41.8	41.8	41.8	43.3	43.3	43.3
• OR > 0	29.9	40.3	41.8	41.8	41.8	43.3	43.3	43.3
TOTAL	20	27	28	28	28	29	29	29

TOTAL NUMBER OF OBS: 67 PCT FREQ NH <5/8: 56.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
.0	8.3	15.5	14.3	19.0	8.3	3.6	17.9	13.1	.0	84

JANUARY

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1856-1973

AREA 0010 SOUTHWEST JAVA SEA
5.5S 108.8E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	
1/2<1	PCP	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	
	NO PCP	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.4	
	TOT %	.0	.0	.0	.0	.0	.6	.2	.0	.0	.0	.7	
1<2	PCP	.0	.0	.0	.0	.0	.2	.5	.0	.0	.0	.7	
	NO PCP	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.4	
	TOT %	.0	.0	.0	.0	.0	.4	.7	.0	.0	.0	1.1	
2<5	PCP	.4	.0	.0	.4	.0	.4	.0	.4	.0	.0	1.4	
	NO PCP	.0	.0	.0	.0	.2	.2	1.4	.0	.0	.0	1.8	
	TOT %	.4	.0	.0	.4	.2	.6	1.4	.4	.0	.0	3.2	
5<10	PCP	.5	.5	.2	.4	2.1	1.1	6.4	4.7	.0	.4	16.3	
	NO PCP	2.1	.5	.4	2.3	1.6	2.9	11.0	8.2	.0	1.8	30.4	
	TOT %	2.7	1.1	.5	2.7	3.7	3.9	17.5	12.9	.0	2.1	46.6	
10+	PCP	.2	.0	.0	.4	.0	.9	3.4	.9	.0	.0	5.7	
	NO PCP	2.4	.7	.4	.4	3.1	3.9	14.0	16.9	.0	.7	42.4	
	TOT %	2.6	.7	.4	.7	3.1	4.8	17.4	17.8	.0	.7	48.1	
	TOT OBS												283
	TOT PCT	5.6	1.8	.9	3.7	7.0	9.7	37.5	31.0	.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	.1	.1	.0		.3	
	11-21	.0	.0	.0	.0	.0	.0	.4	.1	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.6	.3	.0	.0	.8	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.3	.0	.0	.0		.3	
	11-21	.0	.0	.0	.0	.0	.1	.1	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.4	.1	.0	.0	.0	.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.	.0	.0	
	4-10	.2	.0	.0	.0	.0	.1	.1	.1	.		.6	
	11-21	.0	.0	.0	.0	.0	.1	.4	.3	.0		.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.0	.0	.0	.0	.3	.6	.3	.0	.0	1.4	
2<5	0-3	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.6	
	4-10	.0	.0	.0	.0	.1	.6	.4	.0	.0		1.1	
	11-21	.3	.0	.0	.0	.0	.1	.7	.3	.0		1.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.3	.0		.3	
	TOT %	.3	.0	.0	.3	.1	.7	1.4	.6	.0	0	3.3	
5<10	0-3	.7	.1	.0	.8	.6	.4	1.5	.8	.0	1.7	6.6	
	4-10	1.1	.8	.4	1.2	2.3	1.7	7.1	3.8	.0		18.5	
	11-21	.4	.0	.0	.0	.0	1.0	5.2	5.3	.0		11.8	
	22+	.0	.0	.0	.0	.0	.0	.6	.3	.0		.8	
	TOT %	2.2	1.0	.4	2.1	2.9	3.0	14.3	10.2	.0	1.7	37.7	
10+	0-3	.3	.0	.3	.3	.6	1.6	.7	1.2	.0	1.4	6.3	
	4-10	2.0	1.4	.8	.6	1.9	2.5	10.9	9.4	.0		29.5	
	11-21	.3	.0	.0	.0	.0	.6	7.6	9.4	.0		17.9	
	22+	.0	.0	.0	.0	.0	.0	.8	1.7	.0		2.5	
	TOT %	2.5	1.4	1.1	.8	2.5	4.7	20.0	21.7	.0	1.4	56.2	
	TOT OBS												969
	TOT PCT	5.2	2.3	1.5	3.2	5.6	9.1	37.0	33.1	.0	3.0	100.0	

JANUARY

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1856-1973

AREA 0010 SOUTHWEST JAVA SEA
5.5S 108.8E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00Z03	.0	.0	.0	4.5	13.6	9.1	.0	.0	.0	.0	27.3	72.7	22
06Z09	.0	.0	9.5	9.5	4.8	19.0	.0	.0	.0	.0	42.9	57.1	21
12Z15	.0	.0	5.3	5.3	26.3	10.5	.0	.0	.0	.0	47.4	52.6	19
18Z21	.0	.0	.0	20.0	.0	13.3	.0	.0	.0	.0	33.3	66.7	15
TOT	0	0	3	7	9	10	0	0	0	0	29	48	77
PCT	.0	.0	3.9	9.1	11.7	13.0	.0	.0	.0	.0	37.7	62.3	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	2.8	1.4	5.6	30.6	59.7	72
06Z09	2.8	.0	.0	1.9	35.8	59.4	106
12Z15	.0	.0	2.4	6.0	33.7	57.8	83
18Z21	.0	.0	1.7	1.7	48.3	48.3	118
TOT	3	2	5	13	145	211	379
PCT	.8	.5	1.3	3.4	38.3	55.7	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00Z03	.0	.0	10.5	26.3	63.2	19
06Z09	.0	11.1	22.2	27.8	50.0	18
12Z15	.0	5.6	11.1	38.9	50.0	18
18Z21	.0	.0	25.0	16.7	58.3	12
TOT	0	3	11	19	37	67
PCT	.0	4.5	16.4	28.4	55.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.0	1.0	.0	.0	2	1.0
85/89	.0	.0	.0	.0	1.0	1.5	1.0	1.5	10	5.0
80/84	.0	.0	.0	.0	.5	18.6	43.2	9.5	143	71.9
75/79	.0	.0	.0	.0	.0	.5	13.6	8.0	44	22.1
TOTAL	0	0	0	0	3	43	115	38	199	100.0
PCT	.0	.0	.0	.0	1.5	21.6	57.8	19.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	.0	.0	.5	.5	.0	.0
	.5	.0	.5	.0	.0	.5	1.3	1.8	.0	.5
	4.9	1.3	.5	3.0	5.4	3.5	23.2	27.5	.0	2.5
	.9	.0	.0	.5	1.5	5.3	9.5	3.9	.0	.5
	6.3	1.3	1.0	3.5	6.9	9.3	34.5	33.7	.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
00Z03	89	87	84	81	77	76	76	80.9	108
06Z09	91	90	86	82	79	76	74	82.3	202
12Z15	86	85	84	82	78	74	71	81.4	142
18Z21	87	85	83	81	77	74	72	80.3	234
TOT	91	87	85	81	77	75	71	81.2	686

TABLE 16

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	15.0	62.5	22.5	85	40
06Z09	.0	.0	3.5	35.1	49.1	12.3	82	57
12Z15	.0	.0	.0	23.9	58.7	17.4	84	46
18Z21	.0	.0	1.4	11.1	62.5	25.0	87	72
TOT	0	0	3	45	125	42	85	215

JANUARY

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1856-1973

AREA 0010 SOUTHWEST JAVA SEA
5.5S 108.8E

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
7/8	.0	.0	.0	.0	.9	2	.0	.9
5	.0	.0	.0	.0	.4	1	.0	.4
3	.0	.0	.9	.9	.0	4	.0	1.8
2	.0	.0	1.3	.9	.0	5	.0	2.2
1	.0	.0	8.5	1.8	.0	23	.0	10.3
0	.0	4.5	13.5	2.2	.0	45	.0	20.2
-1	.0	3.1	15.2	.4	.0	42	.0	18.8
-2	.9	9.9	9.9	.0	.0	46	.0	20.6
-3	.9	4.0	2.7	.0	.0	17	.4	7.2
-4	.0	6.3	3.1	.0	.0	21	.0	9.4
-5	.4	2.2	1.8	.0	.0	10	.0	4.5
-6	1.8	.9	.0	.0	.0	6	.0	2.7
-7/-8	.0	.4	.0	.0	.0	1	.0	.4
TOTAL	9		127		3		1	222
		70		14		223		
PCT	4.0	31.4	57.0	6.3	1.3	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	.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

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) 1963-1973

JANUARY

AREA 0010 SOUTHWEST JAVA SEA
5.5S 108.8E

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	2.3	.0	.0	.0	.0	.0	2.3
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	2.3	1.7	.0	.0	.0	.0	4.0

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.3	2.3	.0	.0	.0	.0	4.5
1-2	.0	2.8	2.3	.0	.0	.0	5.1
3-4	2.3	.0	2.8	.0	.0	.0	5.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	2.3	.0	.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	4.5	7.4	5.1	.0	.0	.0	17.0

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	2.3	6.3	4.5	.0	.0	.0	13.1
3-4	.0	.0	5.7	.0	.0	.0	5.7
5-6	.0	.0	3.4	4.5	.0	.0	8.0
7	.0	.0	4.5	.0	.0	.0	4.5
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.3	8.0	18.2	4.5	.0	.0	33.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	5.7	.0	.0	.0	.0	5.7	
1-2	2.3	5.1	4.5	.0	.0	.0	11.9	
3-4	.0	2.3	11.9	.0	.0	.0	14.2	
5-6	.0	.0	8.0	2.3	.0	.0	10.2	
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	13.1	24.4	2.3	.0	.0	42.0	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	6.8	11.4	.0	.0	.0	.0	18.2	
1-2	4.5	15.9	11.4	.0	.0	.0	31.8	
3-4	2.3	2.3	20.5	.0	.0	.0	25.0	
5-6	.0	.0	11.4	6.8	.0	.0	18.2	
7	.0	2.3	4.5	.0	.0	.0	6.8	
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	13.6	31.8	47.7	6.8	.0	.0	100.0	44

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	17.2	23.4	25.0	6.3	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	49	2
6-7	.0	1.6	.0	.0	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	6
8-9	.0	.0	6.3	.0	1.6	1.6	.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	4.7	.0	.0	3.1	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	3
TOTAL	14	16	20	6	5	3	0	0	0	0	0	0	0	0	0	0	0	0	0	64	3
PCT	21.9	25.0	31.3	9.4	7.8	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

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

AREA 0010 SOUTHWEST JAVA SEA
5.5S 108.8E

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	7.7	.0	.0	.0	.0	.0	.0	7.7	.0	2.9	.0	.0	.0	.0		89.4
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.3	30.8	.0	.0	.0		59.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15.4	.0	.0	.0		84.6
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	11.4	12.7	.0	.0	.0	.0	.0	24.1	.0	.0	.0	.0	.0	.0		75.9
W	11.3	5.7	.0	.0	.0	.0	.0	17.0	.7	6.1	.0	.0	.0	.0		80.4
NW	8.6	4.0	.0	.0	.0	.0	.0	12.6	1.1	4.2	3.5	.0	.0	.0		79.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
TOT PCT	8.6	4.3	.0	.0	.0	.0	.0	12.9	.7	4.3	2.6	.0	.0	.0		81.1
TOT OBS:	302															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER 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	12.7	5.6	.0	.0	.0	.0	.0	18.3	1.4	1.4	1.4	.0	.0	.0		78.9
06&09	9.1	3.4	.0	.0	.0	.0	.0	12.5	.0	1.1	3.4	.0	.0	.0		83.0
12&15	6.9	1.4	.0	.0	.0	.0	.0	8.3	1.4	4.2	2.8	.0	.0	.0		84.7
18&21	7.1	5.9	.0	.0	.0	.0	.0	12.9	.0	10.6	4.7	.0	.0	.0		76.5
TOT PCT	8.9	4.1	.0	.0	.0	.0	.0	13.0	.6	4.4	3.2	.0	.0	.0		80.7
TOT OBS:	316															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.2	3.2	.9	.2	.0	.0		6.4	6.7	4.3	13.2	3.6	13.6	8.4	9.3	4.8	2.4
NE	1.4	1.8	.0	.0	.0	.0		3.2	4.5	2.0	10.5	.8	3.7	6.9	.0	2.7	2.4
E	.5	1.1	.0	.0	.0	.0		1.7	4.5	1.9	.0	2.0	.5	1.9	.0	1.6	2.9
SE	.7	1.4	.0	.0	.0	.0		2.1	5.1	4.3	5.3	.4	1.9	1.9	.0	2.3	1.9
S	.8	2.2	.2	.0	.0	.0		3.2	6.1	5.2	5.3	1.6	.5	3.2	1.9	3.9	4.8
SW	1.5	6.2	1.2	.1	.0	.0		8.9	7.4	9.3	5.3	9.0	3.3	7.4	13.0	13.2	10.6
W	4.2	17.0	11.2	.7	.1	.0		33.2	9.6	38.9	26.3	35.0	22.0	27.5	44.4	32.6	43.3
NW	3.9	19.1	11.0	1.5	.0	.0		35.5	9.7	28.6	34.2	42.8	50.9	37.4	27.8	30.4	24.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.7							5.7	.0	5.5	.0	4.8	3.7	5.3	3.7	8.5	7.7
TOT OBS	158	390	184	19	1	0	752		8.2	110	19	125	107	131	27	129	104
TOT PCT	21.0	51.9	24.5	2.5	.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	3.9	2.1	.5	.0	.0		6.4	6.7	5.6	8.2	8.5	3.8
NE	2.6	.6	.0	.0	.0		3.2	4.5	3.3	2.2	5.7	2.6
E	1.4	.3	.0	.0	.0		1.7	4.5	1.6	1.3	1.6	2.1
SE	1.5	.6	.0	.0	.0		2.1	5.1	4.5	1.1	1.6	2.1
S	1.8	1.4	.0	.0	.0		3.2	6.1	5.2	1.1	3.0	4.3
SW	4.4	4.2	.4	.0	.0		8.9	7.4	8.7	6.4	8.4	12.0
W	10.8	18.1	4.1	.3	.0		33.2	9.6	37.0	29.0	30.4	37.3
NW	12.0	18.4	5.0	.1	.0		35.5	9.7	29.5	46.6	35.8	27.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.7						5.7	.0	4.7	4.3	5.1	8.2
TOT OBS	332	342	75	3	0	752		8.2	129	232	158	233
TOT PCT	44.1	45.5	10.0	.4	.0		100.0		100.0	100.0	100.0	100.0

FEBRUARY

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

AREA 0010 SOUTHWEST JAVA SEA
5.5S 108.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	4.7	16.3	51.2	24.0	3.9	.0	.0	8.6	100.0	129
06&09	4.3	15.1	48.3	30.2	2.2	.0	.0	8.8	100.0	232
12&15	5.1	10.8	56.2	23.4	1.9	.6	.0	8.2	100.0	158
18&21	8.2	18.0	51.5	19.7	2.6	.0	.0	7.6	100.0	233
TOT	43	115	390	184	19	1	0	8.2		752
PCT	5.7	15.3	51.9	24.5	2.5	.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	.9	.9	2.3	1.1		5.5
NE	1.4	.0	1.1	.0		3.6
E	.0	.0	1.1	.0		5.0
SE	.0	2.6	.0	.0		3.1
S	1.1	.9	.0	.9		4.4
SW	.0	1.1	2.3	2.9		6.5
W	2.3	2.0	10.9	17.0		6.5
NW	4.6	2.9	21.3	16.1		6.1
VAR	.0	.0	.0	.0		.0
CALM	1.1	.0	1.1	.0		3.5
TOT OBS	10	9	35	33	87	6.0
TOT PCT	11.5	10.3	40.2	37.9	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	4.0	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	
S	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	2.0	
SW	.0	.0	.0	1.1	1.7	.0	.0	.0	.0	.0	3.4	
W	.0	.0	.0	5.5	5.7	3.4	.0	.0	.0	.0	17.5	
NW	.0	.0	.0	.3	7.8	6.9	2.3	1.1	.0	.0	26.4	
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	6	15	9	3	1	0	0	53	87
TOT PCT	.0	.0	.0	6.9	17.2	10.3	3.4	1.1	.0	.0	60.9	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	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
* OR >3500	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
* OR >2000	9.1	12.5	15.9	15.9	15.9	15.9	15.9	15.9
* OR >1000	22.7	29.5	33.0	33.0	33.0	33.0	33.0	33.0
* OR >600	25.0	35.2	39.8	39.8	39.8	39.8	39.8	39.8
* OR >300	25.0	35.2	39.8	39.8	39.8	39.8	39.8	39.8
* OR >150	25.0	35.2	39.8	39.8	39.8	39.8	39.8	39.8
* OR > 0	25.0	35.2	39.8	39.8	39.8	39.8	39.8	39.8
TOTAL	22	31	35	35	35	35	35	35

TOTAL NUMBER OF OBS: 88 PCT FREQ NH <5/8: 60.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
1.0	20.2	13.5	16.3	7.7	9.6	8.7	4.8	18.3	.0	104

FEBRUARY

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

AREA 0010 SOUTHWEST JAVA SEA
5.5S 108.0E

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	.3	.0	.0	.0	.0	.0	.3	.7	.0	.0	1.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.0	.0	.0	.0	.0	.3	.7	.0	.0	1.3	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.7	
	TOT %	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.7	
1<2	PCP	.0	.0	.0	.0	.0	.1	1.2	.1	.0	.0	1.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.1	1.2	.1	.0	.0	1.3	
2<5	PCP	.0	.0	.0	.0	.0	.2	1.3	1.2	.0	.0	2.6	
	NO PCP	.2	.0	.0	.0	.0	.3	.5	1.3	.0	.0	2.3	
	TOT %	.2	.0	.0	.0	.0	.5	1.8	2.5	.0	.0	5.0	
5<10	PCP	.3	.0	.0	.0	.0	1.0	2.2	2.8	.0	.0	6.3	
	NO PCP	3.1	1.2	1.0	.5	.8	1.7	11.1	10.0	.0	1.0	30.5	
	TOT %	3.5	1.2	1.0	.5	.8	2.7	13.2	12.8	.0	1.0	36.8	
10+	PCP	.0	.0	.0	.0	.0	.3	1.0	.3	.0	.0	1.7	
	NO PCP	4.4	2.1	1.2	1.6	1.3	2.9	17.2	21.0	.0	1.7	53.3	
	TOT %	4.4	2.1	1.2	1.6	1.3	3.2	18.2	21.4	.0	1.7	55.0	
	TOT OBS												302
	TOT PCT	8.4	3.2	2.2	2.1	2.2	6.9	35.1	37.7	.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	.3	.0	.0	.0	.0	.0	.3	.5	.0		1.0	
	11-21	.1	.0	.0	.0	.0	.0	.0	.1	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.4	.0	.0	.0	.0	.0	.3	.6	.0	.0	1.3	
1/2<1	0-3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	4-10	.0	.0	.0	.0	.0	.0	.3	.0	.0		.3	
	11-21	.0	.0	.0	.0	.0	.0	.5	.5	.0		1.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.3	.0	.0	.0	.0	.8	.5	.0	.0	1.5	
1<2	0-3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	4-10	.0	.0	.0	.0	.0	.1	.4	.0	.0		.5	
	11-21	.0	.0	.0	.0	.0	.0	.9	.1	.0		1.0	
	22+	.0	.0	.0	.0	.0	.0	.2	.1	.0		.3	
	TOT %	.0	.3	.0	.0	.0	.1	1.5	.2	.0	.0	2.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.6	1.0	.9	.0		2.5	
	11-21	.1	.0	.0	.0	.0	.0	.6	.5	.0		1.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.8	.0		.8	
	TOT %	.1	.0	.0	.0	.0	.6	1.6	2.1	.0	.0	4.5	
5<10	0-3	1.1	.0	.3	.3	.3	.0	.9	2.0	.0	.8	5.5	
	4-10	.8	.9	.5	.1	.3	1.3	6.4	5.9	.0		16.1	
	11-21	.5	.0	.0	.0	.1	.5	2.8	1.9	.0		5.8	
	22+	.3	.0	.0	.0	.0	.3	.3	.8	.0		1.5	
	TOT %	2.6	.9	.8	.4	.6	2.1	10.3	10.5	.0	.8	29.0	
10+	0-3	2.0	1.6	.4	.4	.0	.5	2.0	2.0	.0	3.0	11.8	
	4-10	2.2	.3	.6	.9	1.6	4.0	10.5	14.1	.0		34.3	
	11-21	.5	.0	.0	.0	.0	.5	7.9	6.5	.0		15.4	
	22+	.0	.0	.0	.0	.0	.0	.3	.0	.0		.3	
	TOT %	4.7	2.0	1.0	1.3	1.6	5.0	20.5	22.5	.0	3.0	61.7	
	TOT OBS												397
	TOT PCT	7.9	3.3	1.8	1.7	2.3	7.7	35.0	36.5	.0	3.8	100.0	

FEBRUARY

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

AREA 0010 SOUTHWEST JAVA SEA
5.5S 108.8E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00Z03	.0	.0	.0	8.3	4.2	12.5	4.2	.0	.0	.0	29.2	70.8	24
06Z09	.0	.0	.0	8.7	17.4	13.0	8.7	4.3	.0	.0	52.2	47.8	23
12Z15	.0	.0	.0	.0	25.0	15.0	.0	.0	.0	.0	40.0	60.0	20
18Z21	.0	.0	.0	6.9	17.2	.0	3.4	.0	.0	.0	27.6	72.4	29
TOT	0	0	0	6	15	9	4	1	0	0	35	61	96
PCT	.0	.0	.0	6.3	15.6	9.4	4.2	1.0	.0	.0	36.5	63.5	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	4.7	.0	4.7	3.5	24.4	62.8	86
06Z09	.0	2.5	.8	3.3	30.3	63.1	122
12Z15	1.1	2.2	.0	6.7	27.8	62.2	90
18Z21	.0	.9	2.7	4.4	36.3	55.8	113
TOT	5	6	8	18	124	250	411
PCT	1.2	1.5	1.9	4.4	30.2	60.8	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
00Z03	.0	.0	16.7	12.5	70.8	24
06Z09	.0	.0	10.0	50.0	40.0	20
12Z15	.0	.0	5.6	38.9	55.6	18
18Z21	.0	.0	7.7	23.1	69.2	26
TOT	0	0	9	26	53	88
PCT	.0	.0	10.2	29.5	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	.0	.0	.0	.0	.5	1	.5
85/89	.0	.0	.0	.0	.0	4.6	4.1	.5	18	9.2
80/84	.0	.0	.0	.0	.5	23.1	45.6	7.7	150	76.9
75/79	.0	.0	.0	.0	.0	.0	7.7	4.1	23	11.8
70/74	.0	.0	.0	.0	.0	.0	.0	1.5	3	1.5
TOTAL	0	0	0	0	1	54	112	28	195	100.0
PCT	.0	.0	.0	.0	.5	27.7	57.4	14.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0
	.8	1.0	.5	.0	.3	.8	2.6	2.3	.0	1.0
	6.5	2.3	2.1	1.8	1.9	4.6	24.6	31.0	.0	2.1
	.0	.0	.0	.0	.0	.5	6.4	4.9	.0	.0
	.0	.0	.0	.0	.0	.5	.9	.1	.0	.0
	7.3	3.3	2.6	1.8	2.2	6.9	34.5	38.3	.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
00Z03	89	88	84	81	76	73	73	81.0	130
06Z09	91	89	87	82	78	75	75	82.4	226
12Z15	91	86	8[illegible]	82	79	76	75	81.7	154
18Z21	85	84	83	81	77	74	72	80.5	236
TOT	91	88	85	81	77	74	72	81.4	746

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00Z03	.0	.0	2.2	13.3	64.4	20.0	84	45
06Z09	.0	.0	.0	35.6	55.9	8.5	82	59
12Z15	.0	.0	.0	26.8	61.0	12.2	83	41
18Z21	.0	.0	1.6	32.3	48.4	17.7	84	62
TOT	0	0	2	58	117	30	83	207

FEBRUARY

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1957-1973

AREA 0010 SOUTHWEST JAVA SEA
5.5S 108.8E

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 THP 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
6	.0	.0	.0	.0	.4	1	.0	.4
5	.0	.0	.0	.0	.4	1	.0	.4
4	.0	.0	.8	.8	.0	4	.8	.8
3	.0	.0	.8	1.2	.0	5	.0	2.0
2	.0	.0	3.2	1.2	.0	11	.0	4.5
1	.0	.0	7.3	3.2	.0	26	.8	9.7
0	.0	1.2	25.1	2.8	.0	72	1.2	27.9
-1	.0	1.6	11.3	.4	.0	33	.0	13.4
-2	.0	5.3	15.0	.0	.0	50	.0	20.2
-3	.0	2.4	2.4	.0	.0	12	.0	4.9
-4	.0	2.8	2.8	.0	.0	14	.0	5.7
-5	.0	2.4	.4	.0	.0	7	.0	2.8
-6	.8	1.2	.0	.0	.0	5	.0	2.0
-7/-8	.8	.4	.0	.0	.0	3	.0	1.2
-9/-10	.8	.0	.0	.0	.0	2	.0	.8
TOTAL	6		171		3		7	240
		43		24		247		
PCT	2.4	17.4	69.2	9.7	1.2	100.0	2.8	97.2

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	.0	.0	.0	.0	.0	.0
1-2	.0	2.0	2.0	.0	.0	.0	3.9
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	2.0	.0	.0	2.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.0	3.9	2.0	.0	.0	7.8

NE

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	.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	.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	.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
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.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	2.0	.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	.0	3.9	.0	.0	.0	.0	3.9

PERIOD: (OVER-ALL) 1963-1973

FEBRUARY

TABLE 18 (CONT)

AREA 0010 SOUTHWEST JAVA SEA
5.55 108.8E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.4	.0	.0	.0	.0	3.4	.0	4.4	.0	.0	.0	.0	4.4
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.5
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	.0	.0	2.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.4	.0	.0	.0	.0	3.4	.0	4.9	.0	2.0	.0	.0	6.9

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	1.5	5.4	2.0	.0	.0	.0	8.8	.5	6.4	5.9	.0	.0	.0	12.7	
3-4	.0	3.4	2.0	.0	.0	.0	5.4	.0	5.9	7.8	.0	.0	.0	13.7	
5-6	.0	.0	3.4	.0	.0	.0	3.4	.0	2.0	4.4	2.0	.0	.0	8.3	
7	.0	.0	3.9	.0	.0	.0	3.9	.0	.0	2.0	2.0	.0	.0	3.9	
8-9	.0	.0	.0	1.5	.0	.0	1.5	.0	.0	3.9	6.4	.0	.0	10.3	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	.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	1.5	8.8	11.3	1.5	.0	.0	23.0	.5	14.2	24.0	12.3	.0	.0	51.0	98.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.8	1.9	.0	.0	.0	.0	7.7	
1-2	1.9	23.1	9.6	.0	.0	.0	34.6	
3-4	.0	9.6	11.5	.0	.0	.0	21.2	
5-6	.0	1.9	7.7	3.8	.0	.0	13.5	
7	.0	.0	5.8	1.9	.0	.0	7.7	
8-9	.0	.0	3.8	9.6	.0	.0	13.5	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	1.9	.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	7.7	36.5	38.5	17.3	.0	.0	100.0	52

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	5.9	27.1	15.3	9.4	3.5	8.2	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	60	4
6-7	.0	.0	10.6	7.1	1.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	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	4.7	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	1
TOTAL	9	47	22	14	6	8	0	1	0	0	0	0	0	0	0	0	0	0	0	85	3
PCT	10.6	31.8	25.9	16.5	4.7	9.4	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1860-1973

AREA 0010 SOUTHWEST JAVA SEA
5.5S 108.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	7.5	11.3	.0	.0	.0	.0	.0	18.9	.0	.0	3.8	.0	.0	.0	77.4
NE	2.9	5.9	.0	.0	.0	.0	.0	8.8	.0	2.9	.0	.0	.0	.0	91.2
E	2.1	20.8	4.2	.0	.0	.0	.0	27.1	.0	6.3	.0	.0	.0	.0	68.8
SE	2.2	17.4	.0	.0	.0	.0	.0	19.6	.0	8.7	.0	.0	.0	.0	71.7
S	3.3	.0	.0	.0	.0	.0	.0	3.3	.0	6.7	6.7	.0	.0	.0	83.3
SW	6.9	5.6	4.2	.0	.0	.0	.0	16.7	.0	1.4	5.6	.0	.0	.0	77.8
W	5.5	8.3	.6	.0	.0	.0	.0	14.4	1.9	5.5	.5	.0	1.1	.0	77.6
NW	2.9	5.2	.0	.0	.0	.0	.0	8.1	.3	4.0	4.0	.0	1.1	.0	83.0
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	6.3	.0	.0	.0	93.8
TOT PCT	4.2	8.1	.9	.0	.0	.0	.0	13.1	.6	4.2	2.7	.0	.6	.0	79.7
TOT OBS:	335														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	8.8	7.0	1.8	.0	.0	.0	.0	17.5	.0	7.0	.0	.0	.0	.0	80.7
06&09	2.2	2.2	2.2	.0	.0	.0	.0	7.5	.0	.0	4.3	.0	1.1	.0	87.1
12&15	2.2	4.4	1.1	.0	.0	.0	.0	7.7	2.2	2.2	2.2	.0	1.1	.0	84.6
18&21	8.7	16.5	.0	.0	.0	.0	.0	25.2	.0	9.4	3.9	.0	.0	.0	63.8
TOT PCT	5.4	8.7	1.1	.0	.0	.0	.0	15.2	.5	4.9	3.0	.0	.5	.0	77.4
TOT OBS:	368														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	4.3	.6	.1	.0	.0		7.7	5.7	3.7	13.3	7.6	16.8	7.1	2.9	7.8	3.3
NE	2.4	3.2	.5	.0	.0	.0		6.1	5.0	2.2	6.7	7.4	4.5	12.0	5.9	2.9	5.7
E	2.3	4.6	.7	.0	.0	.0		7.7	5.8	5.6	3.3	10.4	7.7	9.0	2.9	7.0	6.6
SE	2.7	4.5	.6	.0	.0	.0		7.8	5.2	9.6	3.3	7.8	5.9	2.6	2.9	10.7	12.3
S	2.4	2.9	.1	.0	.0	.0		5.4	4.6	9.0	10.0	3.7	3.2	3.4	5.9	6.1	7.4
SW	2.6	6.2	1.0	.0	.0	.0		9.7	6.2	12.9	20.0	3.7	6.4	7.3	29.4	8.4	16.8
W	2.5	14.3	5.8	.6	.0	.0		23.6	8.5	30.6	23.3	22.2	17.3	20.9	20.6	26.2	26.2
NW	3.5	14.3	4.9	.8	.0	.0		23.6	8.3	17.4	20.0	23.9	38.2	29.3	29.4	18.6	12.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.5							8.5	.0	9.0	.0	13.3	.0	8.3	.0	12.3	9.0
TOT OBS	222	404	106	11	0	0	743		6.4	89	15	135	110	133	17	122	122
TOT PCT	29.9	54.4	14.3	1.5	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	5.3	2.2	.3	.0	.0		7.7	5.7	5.0	11.7	6.7	5.5
NE	5.0	1.5	.1	.0	.0		6.1	5.0	2.9	6.1	11.3	4.3
E	5.0	2.6	.0	.0	.0		7.7	5.8	5.3	9.2	8.3	6.8
SE	6.3	1.1	.3	.0	.0		7.8	5.2	8.7	6.9	2.7	11.5
S	4.1	1.2	.1	.0	.0		5.4	4.6	9.1	3.5	3.7	6.8
SW	6.2	3.3	.3	.0	.0		9.7	6.2	13.9	4.9	9.8	12.6
W	10.4	11.3	1.6	.2	.0		23.6	8.5	29.6	20.0	20.8	26.2
NW	10.8	10.5	2.2	.1	.0		23.6	8.3	17.8	30.3	29.3	15.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	8.5						8.5	.0	7.7	7.3	7.3	10.7
TOT OBS	458	247	36	2	0	743		6.4	104	245	150	244
TOT PCT	61.6	33.2	4.8	.3	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1860-1973

AREA 0010 SOUTHWEST JAVA SEA
5.5S 108.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00603	7.7	14.4	59.6	18.3	.0	.0	.0	7.0	100.0	104
06609	7.3	24.9	49.0	17.1	1.6	.0	.0	6.5	100.0	245
12615	7.3	23.3	58.7	8.7	2.0	.0	.0	6.1	100.0	150
18621	10.7	19.7	54.9	13.1	1.6	.0	.0	6.3	100.0	244
TOT	63	159	404	106	11	0	0	6.4		743
PCT	8.5	21.4	54.4	14.3	1.5	.0	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.3	.0	.9	2.2		5.5
NE	.6	1.3	2.5	.0		4.0
E	.6	1.3	3.1	.		4.7
SE	.0	1.3	.6	.0		4.0
S	.9	.9	1.3	.0		3.9
SW	.6	3.1	.9	4.1		5.7
W	2.2	9.1	16.6	7.5		5.7
NW	2.5	6.9	15.3	6.3		5.3
VAR	.0	.0	.0	.0		.0
CALM	3.8	.0	6.3	1.3		4.7
TOT OBS	10	19	34	17	80	5.3
TOT PCT	12.5	23.8	42.5	21.3	100.0	

TABLE 6

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

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.9	.9	.0	.0	.0	.0	.0	2.5	
NE	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	3.1	
E	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	3.8	
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	
SW	.0	.0	1.3	1.3	1.6	.0	.0	.0	.0	.0	4.7	
W	.0	.0	.0	6.9	5.3	.0	1.3	.0	.0	1.3	20.6	
NW	.0	.0	.0	4.7	3.4	1.3	.0	.0	.0	.0	16.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	2.5	.0	.0	1.3	.0	.0	.0	7.5	
TOT OBS	0	0	1	14	9	2	2	0	0	1	51	80
TOT PCT	.0	.0	1.3	17.5	11.3	2.5	2.5	.0	.0	1.3	63.8	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >500YD	* OR >0
* OR >6500	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	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
* OR >2000	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
* OR >1000	13.6	16.0	17.3	17.3	17.3	17.3	17.3	17.3
* OR >600	29.6	33.3	34.6	34.6	34.6	34.6	34.6	34.6
* OR >300	30.9	34.6	35.8	35.8	35.8	35.8	35.8	35.8
* OR >150	30.9	34.6	35.8	35.8	35.8	35.8	35.8	35.8
* OR > 0	30.9	34.6	35.8	35.8	35.8	35.8	35.8	35.8
TOTAL	25	28	29	29	29	29	29	29

TOTAL NUMBER OF OBS: 81 PCT FREQ NH <5/8: 64.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
6.5	10.9	23.9	19.6	6.5	8.7	7.6	7.6	8.7 .0	92

MARCH

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1860-1973

AREA 0010 SOUTHWEST JAVA SEA
5.5S 108.8E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.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	.5	.7	.0	.0	1.2	
	TOT %	.0	.0	.0	.0	.0	.0	.5	.7	.0	.0	1.2	
2<5	PCP	.0	.0	.0	.0	.0	.1	.4	.0	.0	.0	.6	
	NO PCP	.0	.0	.1	.1	.0	.0	.3	.3	.0	.0	.9	
	TOT %	.0	.0	.1	.1	.0	.1	.7	.3	.0	.0	1.5	
5<10	PCP	1.5	.1	1.9	1.3	.1	1.2	2.2	1.7	.0	.0	10.1	
	NO PCP	3.4	1.6	2.4	3.1	2.5	3.7	7.1	8.7	.0	.9	33.4	
	TOT %	4.9	1.8	4.3	4.5	2.6	4.9	9.3	10.4	.0	.9	43.6	
10+	PCP	.0	.3	.0	.0	.0	.4	1.3	.4	.0	.0	2.4	
	NO PCP	3.0	3.0	2.7	2.2	1.9	5.3	15.2	14.2	.0	3.9	51.3	
	TOT %	3.0	3.3	2.7	2.2	1.9	5.7	16.5	14.6	.0	3.9	53.7	
	TOT OBS												335
	TOT PCT	7.9	5.1	7.2	6.9	4.5	10.7	27.0	26.0	.0	4.8	113.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS 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	.2	.0		.3	
	11-21	.0	.0	.0	.0	.0	.0	.2	.1	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.3	.3	.0		.5	
	TOT %	.0	.0	.0	.0	.0	.0	.4	.6	.0	.0	1.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	.1	.0	.1	.3	.9	.0		1.5	
	11-21	.0	.0	.0	.0	.0	.0	.5	.0	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.1	.1	.0	.1	.8	.9	.0	.0	2.0	
5<10	0-3	1.9	.6	.9	.6	.5	.6	.6	2.0	.0	.8	8.6	
	4-10	2.1	1.0	2.4	3.2	1.6	3.1	5.1	5.8	.0		24.2	
	11-21	1	.1	.4	.3	.1	.5	1.9	1.4	.0		4.8	
	22+	.0	.0	.0	.0	.0	.0	.3	.3	.0		.8	
	TOT %	4.2	1.8	3.7	4.0	2.2	4.2	8.1	9.5	.0	.8	38.4	
10+	0-3	1.0	1.4	.4	1.3	.3	1.6	1.5	2.8	.0	5.6	15.9	
	4-10	2.7	1.8	1.9	1.4	1.6	3.4	10.7	9.8	.0		33.3	
	11-21	.2	.4	.5	.4	.0	.6	4.3	3.0	.0		9.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	3.9	3.5	2.8	3.0	2.0	5.6	16.5	15.7	.0	5.6	58.6	
	TOT OBS												396
	TOT PCT	5.1	5.3	6.6	7.2	4.2	10.0	25.8	26.6	.0	6.3	100.0	

MARCH

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1860-1973

AREA 0010 SOUTHWEST JAVA SEA
5.5S 108.8E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00603	.0	.0	.0	29.4	11.8	.0	.0	.0	.0	.0	41.2	58.8	17
06609	.0	.0	4.2	16.7	12.5	4.2	.0	.0	.0	.0	37.5	62.5	24
12615	.0	.0	.0	13.8	10.3	3.4	6.9	.0	.0	.0	34.5	65.5	29
18621	.0	.0	.0	4.8	4.8	.0	.0	.0	.0	4.8	14.3	85.7	21
TOT	0	0	1	14	9	2	2	0	0	1	29	62	91
PCT	.0	.0	1.1	15.4	9.9	2.2	2.2	.0	.0	1.1	31.9	68.1	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
00603	.0	.0	1.6	4.8	33.3	60.3	63
06609	.0	.0	1.8	1.8	38.6	57.9	114
12615	.0	.0	1.0	1.0	32.7	65.4	104
18621	.0	.0	.0	2.7	52.7	44.6	146
TOT	0	0	4	10	177	238	429
PCT	.0	.0	.9	2.3	41.3	55.5	100.0

TABLE 12

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

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00603	.0	.0	35.7	14.3	50.0	14
06609	.0	5.0	35.0	15.0	50.0	20
12615	.0	.0	14.8	22.2	63.0	27
18621	.0	.0	5.0	10.0	85.0	20
TOT	0	1	17	13	51	81
PCT	.0	1.2	21.0	16.0	63.0	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	5.2	1.7	.0	17	7.3
80,34	.0	.0	.0	.0	1.3	14.6	47.6	17.6	189	81.1
75/79	.0	.0	.0	.0	.0	.9	4.3	6.4	27	11.6
TOTAL	0	0	0	0	4	48	125	56	233	100.0
PCT	.0	.0	.0	.0	1.7	20.6	53.6	24.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.4	.8	1.5	.0	.0	.4	1.8	2.0	.0	.4
	5.8	3.9	4.7	6.0	2.9	5.9	22.5	24.7	.0	4.7
	1.5	.4	.9	.4	.6	1.9	4.2	1.6	.0	.0
	7.7	4.9	7.1	6.4	3.5	8.3	28.5	28.3	.0	5.2

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	91	89	86	82	78	75	75	81.6	104
06609	91	90	88	83	79	75	75	83.3	231
12615	87	86	85	82	79	77	75	82.1	151
18621	89	87	84	81	77	75	73	80.9	249
TOT	91	89	86	82	78	75	73	82.0	735

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	.0	.0	10.8	56.8	32.4	86	37
06609	.0	.0	5.9	26.5	52.9	14.7	81	68
12615	.0	.0	1.6	27.9	47.5	23.0	83	61
18621	.0	.0	.0	13.3	53.1	33.7	87	98
TOT	0	0	5	52	138	69	85	264

MARCH

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1880-1973

AREA 0010 SOUTHWEST JAVA SEA
5.9S 108.8E

TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	1.1	3	.0	1.1
5	.0	.0	.0	1.1	.0	3	.0	1.1
4	.0	.0	2.2	.7	.0	8	.0	3.0
3	.0	.0	.4	1.5	.0	5	.0	1.9
2	.0	.4	3.4	2.2	.0	16	.4	5.6
1	.0	.7	6.7	.7	.0	22	.0	8.2
0	.0	1.9	11.6	2.6	.0	43	1.1	15.0
-1	.0	3.0	14.6	.4	.0	48	1.5	16.5
-2	.0	5.2	16.5	.0	.0	58	.4	21.3
-3	.0	3.4	3.7	.4	.0	20	.0	7.5
-4	.0	3.4	3.7	.0	.0	19	.7	6.4
-5	2.6	1.5	.7	.0	.0	13	.0	4.9
-6	.0	.7	.0	.0	.0	2	.0	.7
-7/-8	1.1	1.5	.0	.0	.0	7	.0	2.6
TOTAL	10	58	170	26	3	267	11	256
PCT	3.7	21.7	63.7	9.7	1.1	100.0	4.1	95.9

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	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	2.0	2.0	.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	2.0	2.0	.0	.0	.0	3.9

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	.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	2.6	.0	.0	.0	.0	2.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.6	.0	.0	.0	.0	2.6
1-2	.0	.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	2.6	.0	.0	.0	.0	2.6

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	.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 0010 SOUTHWEST JAVA SEA
5.5S 108.8E

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	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	2.6	.0	.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	2.6	.0	.0	.0	.0	2.6

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.6	.0	.0	.0	.0	.0	2.6
1-2	.7	3.9	.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	3.3	3.9	.0	.0	.0	.0	7.2

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	7.2	.0	.0	.0	.0	7.2
1-2	3.9	16.4	.0	.0	.0	.0	20.4
3-4	.0	3.9	4.6	.0	.0	.0	8.6
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	3.9	27.6	7.2	.0	.0	.0	38.8

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.7	.0	.0	.0	.0	.7	
1-2	.7	8.5	5.3	.0	.0	.0	14.5	
3-4	.0	7.2	6.6	.0	.0	.0	13.8	
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	.7	16.4	11.8	.0	.0	.0	28.9	86.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	15.8	13.2	.0	.0	.0	.0	28.9	
1-2	5.3	26.9	5.3	.0	.0	.0	39.5	
3-4	.0	15.8	13.2	.0	.0	.0	28.9	
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	21.1	57.9	21.1	.0	.0	.0	100.0	38

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	13.9	34.7	20.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	50	2
6-7	.0	1.4	4.8	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	4
8-9	.0	1.4	.0	.0	1.4	.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	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	18.1	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	0
TOTAL	23	28	18	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72	2
PCT	31.9	38.9	25.0	2.8	1.4	.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 0010 SOUTHWEST JAVA SEA
5.5S 108.7E

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	4.7	.0	.0	.0	.0		95.3
NE	4.3	.0	.0	.0	.0	.0	.0	4.3	.0	10.9	2.2	.0	.0	.0		82.6
E	1.7	5.2	.0	.0	.0	.0	.0	6.9	.0	11.6	7.7	.0	.0	.0		75.5
SE	4.6	6.9	2.3	.0	.0	.0	.0	13.8	2.3	7.5	.0	.0	.0	.0		76.4
S	10.0	3.3	.0	.0	.0	.0	.0	13.3	.0	16.7	6.7	.0	.0	.0		73.3
SW	2.4	2.4	.0	.0	.0	.0	.0	4.9	.0	12.2	.0	.0	4.9	.0		80.5
W	3.3	10.0	1.7	.0	.0	.0	.0	15.0	.0	5.0	3.3	.0	.0	.0		78.3
NW	3.7	3.7	1.9	.0	.0	.0	.0	9.3	.0	1.9	3.7	.0	.0	.0		87.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1	.0	.0	7.1	.0		85.7
TOT PCT	3.3	4.5	.8	.0	.0	.0	.0	8.7	.4	8.7	3.3	.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 WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00003	2.3	2.3	2.3	.0	.0	.0	.0	6.8	.0	.0	2.3	.0	.0	.0		90.9
06009	1.4	5.6	.0	.0	.0	.0	.0	7.0	.0	.0	2.8	.0	.0	.0		90.1
12015	1.6	4.9	.0	.0	.0	.0	.0	6.6	1.6	11.5	1.6	.0	1.6	.0		78.7
18021	7.1	3.5	1.2	.0	.0	.0	.0	11.8	.0	18.8	5.9	.0	1.2	.0		67.1
TOT PCT	3.4	4.2	.8	.0	.0	.0	.0	8.4	.4	8.8	3.4	.0	.8	.0		80.1
TOT OBS:	261															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.3	2.7	.3	.0	.0	.0		5.4	4.7	.0	.0	8.8	13.5	8.3	2.9	2.4	1.3
NE	2.7	5.[illegible]	.8	.0	.0	.0		9.1	5.5	4.7	9.1	11.1	17.4	9.6	14.7	9.3	2.6
E	4.4	16.0	1.9	.3	.0	.0		22.5	6.5	22.4	18.2	22.1	20.8	27.5	5.9	25.0	18.7
SE	5.6	12.1	.9	*	.0	.0		18.3	5.3	26.8	40.9	17.2	6.2	9.9	11.8	17.1	29.6
S	3.3	4.0	.4	.0	.0	.0		7.6	4.6	13.8	4.5	7.2	3.4	5.3	5.9	7.7	8.7
SW	2.9	4.2	.7	.0	.0	.0		7.7	5.4	6.3	.0	5.7	1.1	7.8	23.5	10.5	11.3
W	3.6	6.3	1.9	.1	.0	.0		11.9	6.4	11.2	4.5	12.1	5.6	9.2	23.5	14.1	16.1
NW	2.2	5.3	1.0	.1	.0	.0		8.6	6.1	4.4	22.7	4.3	19.7	15.1	.0	5.6	4.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.1							9.1	.0	10.4	.0	11.5	12.4	7.3	11.8	7.3	7.0
TOT OBS	246	383	91	3	0	0	683		5.2	96	11	122	89	109	17	12[illegible]	115
TOT PCT	36.0	56.1	7.9	.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	4.3	1.1	.0	.0	.0		5.4	4.7	.0	10.8	7.5	1.9
NE	6.6	2.5	.0	.0	.0		9.1	5.5	5.1	13.7	10.3	6.1
E	14.4	7.3	.6	.1	.0		22.5	6.5	22.0	21.6	24.6	22.5
SE	13.1	5.1	.1	.0	.0		18.3	5.3	28.3	12.6	10.1	23.1
S	6.3	1.2	.1	.0	.0		7.6	4.6	12.9	5.6	5.4	8.2
SW	5.6	1.9	.1	.0	.0		7.7	5.4	5.6	3.8	9.9	10.9
W	7.7	3.7	.5	.0	.0		11.9	6.4	10.5	9.4	11.1	15.1
NW	6.1	2.0	.4	.0	.0		8.6	6.1	6.3	10.8	13.1	5.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	9.1						9.1	.0	9.3	11.8	7.9	7.1
TOT OBS	500	169	13	1	0	683		5.2	107	211	126	239
TOT PCT	73.2	24.7	1.9	.1	.0		100.0		100.0	100.0	100.0	100.0

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

AREA 0010 SOUTHWEST JAVA SEA
5.5S 108.7E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	9.3	29.0	56.1	4.7	.9	.0	.0	5.1	100.0	107
06&09	11.8	28.4	48.8	10.0	.9	.0	.0	5.2	100.0	211
12&15	7.9	23.0	62.7	6.3	.0	.0	.0	5.3	100.0	126
18&21	7.1	26.8	59.0	7.1	.0	.0	.0	5.3	100.0	239
TOT	62	184	383	51	3	0	0	5.2		683
PCT	9.1	26.9	56 .	7.5	.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	1.0	.0	.0		4.0
NE	6.5	.3	.3	1.3		2.5
E	7.1	19.5	9.1	7.5		4.3
SE	4.5	8.1	7.5	1.9		4.4
S	1.3	2.3	.0	1.0		3.7
SW	1.3	.0	1.9	.0		3.0
W	1.3	2.6	2.9	1.0		4.9
NW	.0	1.3	1.6	.3		5.5
VAR	.0	.0	.0	.0		.0
CALM	1.3	2.6	2.6	.0		4.2
TOT OBS	18	29	20	10	77	4.2
TOT PCT	23.4	37.7	26.0	13.0	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
NE	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	7.1	
E	.0	.0	1.3	1.0	2.6	1.3	.0	.0	.0	.0	37.0	
SE	.0	.0	.0	1.6	2.6	1.3	.0	.0	.0	.0	16.6	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	
W	.0	.0	.0	1.0	.0	.0	.0	.0	.0	1.[illegible]	5.5	
NW	.0	.0	.0	.3	.0	.0	1.3	.0	.0	.0	1.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5	
TOT OBS	0	0	2	3	4	2	1	0	0	1	64	77
TOT PCT	.0	.0	2.6	3.9	5.2	2.6	1.3	.0	.0	1.3	83.1	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >500YD	* OR >0
* OR >6500	1.3	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	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
* OR >2000	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
* OR >1000	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
* OR >600	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
* OR >300	16.7	16.7	16.7	16.7	16.7	17.9	17.9	17.9
* OR >150	16.7	16.7	16.7	16.7	16.7	17.9	17.9	17.9
* OR > 0	16.7	16.7	16.7	16.7	16.7	17.9	17.9	17.9
TOTAL	13	13	13	13	13	14	14	14

TOTAL NUMBER OF OBS: 78 PCT FREQ NH <5/8: 82.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOT-L OBS
11.0	14.6	22.0	14.6	17.1	3.7	6.1	4.9	6.1	.0	82

APRIL

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

AREA 0010 SOUTHWEST ΔVA SEA
5.5S 108 .E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR 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	.0	.0	.0	.0	.0	.0	.0	.4	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.4	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.4	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.4	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	
	TOT %	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	1.2	.0	.2	.2	.0	.0	.0	.0	.8	2.5	
	TOT %	.0	1.2	.0	.2	.2	.0	.0	.0	.0	.8	2.5	
5<10	PCP	.0	.0	.8	2.5	.8	.4	1.7	.8	.0	.0	7.0	
	NO PCP	2.1	3.3	6.0	3.8	2.2	4.9	5.4	6.6	.0	2.1	36.0	
	TOT %	2.1	3.3	6.8	6.3	3.0	5.0	7.0	7.4	.0	2.1	43.0	
10+	PCP	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.8	
	NO PCP	2.4	4.5	16.4	11.5	3.0	3.1	5.2	3.5	.0	2.9	52.5	
	TOT %	2.4	5.0	16.8	11.5	3.0	3.1	5.2	3.5	.0	2.9	53.3	
	TOT OBS												242
	TOT PCT	4.4	9.5	24.1	18.0	6.2	8.5	12.4	11.2	.0	5.8	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	.3	.0	.0	.0	.0	.0	.0		.3	
	TOT %	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3	
1/2<1	0-3	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0	.3	
	4-10	.0	.0	.0	.0	.0	.0	.1	.1	.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	.2	.0	.1	.1	.0	.0	.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	
	4-10	.0	.0	.0	.0	.0	.3	.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	.0	.0	.3	.0	.0	.0	.3	.5	
2<5	0-3	.0	.3	.0	.5	.0	.3	.3	.0	.0	.5	1.9	
	4-10	.0	.8	.0	.7	.1	.0	.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	1.1	.0	1.2	.1	.3	.3	.0	.0	.5	3.5	
5<10	0-3	.3	.3	.3	1.1	.5	.4	1.0	.5	.0	1.9	6.3	
	4-10	1.1	1.4	4.1	3.2	1.4	2.6	2.5	3.4	.0		19.6	
	11-21	.0	.5	.5	.0	.3	.3	1.2	1.0	.0		3.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	1.4	2.2	4.9	4.3	2.2	3.3	4.6	4.9	.0	1.9	29.7	
10+	0-3	1.2	2.5	3.3	4.0	1.9	2.2	2.6	1.8	.0	6.5	25.9	
	4-10	1.6	3.3	11.6	7.6	2.8	1.6	3.7	3.5	.0		35.7	
	11-21	.0	.3	1.4	.5	.0	.1	1.1	.1	.0		3.5	
	22+	.0	.0	.2	.1	.0	.0	.0	.0	.0		.3	
	TOT %	2.8	6.1	16.4	12.1	4.7	4.0	7.4	5.4	.0	6.5	65.4	
	TOT OBS												367
	TOT PCT	4.2	9.4	21.6	17.6	7.3	7.8	12.4	10.5	.0	9.2	100.0	

APRIL

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

AREA 0010 SOUTHWEST JAVA SEA
5.5S 108.7E

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
00Z03	.0	.0	.0	12.5	6.3	.0	.0	.0	.0	.0	18.8	81.3	16
06Z09	.0	.0	9.5	4.8	.0	.0	.0	.0	.0	.0	14.3	85.7	21
12Z15	.0	.0	.0	.0	.0	9.1	4.5	.0	.0	.0	13.6	86.4	22
18Z21	.0	.0	.0	.0	15.0	.0	5.0	.0	.0	5.0	25.0	75.0	20
TOT	0	0	2	3	4	2	2	0	0	1	14	65	79
PCT	.0	.0	2.5	3.8	5.1	2.5	2.5	.0	.0	1.3	17.7	82.3	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	.0	.0	3.3	33.3	63.3	60
06Z09	.9	.0	.9	1.9	28.3	67.9	106
12Z15	.0	1.2	.0	4.7	28.2	65.9	85
18Z21	.0	.7	1.5	3.7	34.8	59.3	135
TOT	1	2	3	13	121	246	386
PCT	.3	.5	.8	3.4	31.3	63.7	100.0

TABLE 12

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

HOUR (GMT)	<150 <500YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00Z03	.0	.0	12.5	6.3	81.3	16
06Z09	.0	9.5	14.3	.0	85.7	21
12Z15	.0	.0	.0	14.3	85.7	21
18Z21	.0	.0	.0	25.0	75.0	20
TOT	0	2	5	9	64	78
PCT	.0	2.6	6.4	11.5	82.1	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	.6	.0	.0	.0	1	.6
90/94	.0	.0	.0	.0	.0	.6	.0	.0	1	.6
85/89	.0	.0	.0	.0	2.2	9.5	5.6	1.7	34	19.0
80/84	.0	.0	.0	.6	1.1	27.9	40.2	2.8	130	72.6
75/79	.0	.0	.0	.0	.0	.6	1.1	5.6	13	7.3
TOTAL	0	0	0	1	7	69	84	18	179	100.0
PCT	.0	.0	.0	.6	3.9	38.5	46.9	10.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.4	.1	.0	.0	.0	.0	.0	.0
.4	.1	.0	.0	.0	.0	.0	.0	.0	.0
2.0	1.3	7.0	2.4	.6	1.1	.8	1.7	.0	2.2
2.5	6.7	19.6	11.2	4.2	7.8	10.3	9.2	.0	1.1
.0	.6	.8	2.5	1.1	.0	2.2	.0	.0	.0
4.9	8.7	27.8	16.2	5.9	8.9	13.4	10.9	.0	3.4

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00Z03	94	90	87	83	80	78	78	83.0	106
06Z09	95	92	89	84	80	75	74	84.1	190
12Z15	90	87	86	83	80	78	76	82.7	125
18Z21	88	86	85	82	79	77	75	81.9	246
TOT	95	90	87	83	79	77	74	82.9	667

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00Z03	.0	3.3	.0	36.7	50.0	10.0	81	30
06Z09	.0	.0	11.3	49.1	28.3	11.3	79	53
12Z15	.0	.0	2.4	43.9	46.3	7.3	80	41
18Z21	.0	.0	.0	23.0	63.5	13.5	83	74
TOT	0	1	7	72	96	22	81	198

APRIL

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

AREA 0010 SOUTHWEST JAVA SEA
5.55 108.7E

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	77 80	81 84	85 88	89 92	>92	TOT	% FOG	NO FOG
7/8	.0	.5	.0	1.0	.5	4	.0	1.9
5	.0	.0	.0	.5	.0	1	.0	.5
4	.0	.5	1.5	.0	.0	4	.0	1.9
3	.0	.0	1.9	.5	.0	5	.0	2.4
2	.0	4.9	2.4	.5	.0	16	.5	7.3
1	.5	3.9	2.9	.0	.0	13	1.0	6.3
0	.5	16.5	2.9	.0	.0	41	1.0	18.9
-1	.5	9.2	2.9	.0	.0	26	.5	12.1
-2	.0	20.9	1.9	.0	.0	47	.5	22.3
-3	.5	8.7	.0	.0	.0	19	.5	8.7
-4	1.9	6.3	.0	.0	.0	17	.0	8.3
-5	1.5	1.0	.0	.0	.0	5	.5	1.9
-6	1.9	.5	.0	.0	.0	5	.0	2.4
-7/-8	.5	.0	.0	.0	.0	1	.0	.5
TOTAL	.6		34		1		9	197
		150		5		206		
PCT	7.8	72.8	16.5	2.4	.5	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	3.2	4.0	.0	.0	.0	7.3
3-4	.0	3.2	.0	.0	.0	.0	3.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.5	4.0	.0	.0	.0	10.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.2	.0	.0	.0	.0	3.2
1-2	3.2	12.1	4.8	.0	.0	.0	20.2
3-4	.0	10.5	3.2	2.4	.0	.0	16.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	3.2	.0	.0	3.2
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	3.2	25.8	8.1	5.6	.0	.0	42.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.2	.0	.0	.0	.0	3.2
1-2	3.2	11.3	.8	.0	.0	.0	15.3
3-4	.0	12.1	3.2	.8	.0	.0	16.1
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	3.2	26.6	4.0	.8	.0	.0	34.7

PERIOD: (OVER-ALL) 1963-1972

APRIL

AREA 0010 SOUTHWEST JAVA SEA
5.5S 108.7E

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	2.4	.0	.0	.0	.0	2.4
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.4	.0	.0	.0	.0	2.4

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	3.2	.0	.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	3.2	.0	.0	.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	5.6	.0	.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	.0	5.6	.0	.0	.0	.0	5.6

NW

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

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	6.5	.0	.0	.0	.0	6.5	
1-2	9.7	35.5	9.7	.0	.0	.0	54.8	
3-4	.0	25.8	6.5	3.2	.0	.0	35.5	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	3.2	.0	.0	3.2	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.7	67.7	16.1	6.5	.0	.0	100.0	31

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	19.0	30.2	22.2	4.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	48	2
6-7	.0	.0	4.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	3
8-9	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
10-11	.0	1.6	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
12-13	.0	.0	1.6	.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	1.6	7.9	1.6	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	2
TOTAL	13	25	19	5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	63	2
PCT	20.6	39.7	30.2	7.9	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1911-1971
(OVER-ALL) 1860-1971

AREA 0010 SOUTHWEST JAVA SEA
5.5S 108.7E

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	11.8	.0	.0	.0	.0	.0	11.8	.0	.0	.0	.0	.0	.0	.0	88.2
NE	.0	1.9	.0	.0	.0	.0	.0	1.9	3.8	7.5	.0	.0	.0	.0	.0	86.8
E	4.8	4.0	.0	.0	.0	.0	.0	8.8	1.6	6.4	.0	.0	.0	.0	.0	84.8
SE	3.7	5.2	.0	.0	.0	.0	.0	8.9	.0	3.7	.0	.0	.0	.0	.0	89.7
S	10.9	.0	.0	.0	.0	.0	.0	10.9	.0	2.2	.0	.0	.0	.0	.0	89.1
SW	15.1	.0	.0	.0	.0	.0	.0	15.1	.0	7.5	.0	.0	.0	.0	.0	77.4
W	6.7	.0	.0	.0	.0	.0	.0	6.7	.0	.0	.0	.0	.0	.0	.0	93.3
NW	3.6	.0	.0	.0	.0	.0	.0	3.6	.0	.0	.0	.0	.0	.0	.0	96.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1	.0	.0	.0	.0	.0	92.9
TOT PCT	4.6	3.3	.0	.0	.0	.0	.0	7.9	.8	4.6	.0	.0	.0	.0	.0	88.0
TOT OBS:	241															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	6.6	2.3	.0	.0	.0	.0	.0	9.1	.0	.0	.0	.0	.0	.0	.0	90.9
06&09	3.9	3.9	.0	.0	.0	.0	.0	7.9	.0	.0	.0	.0	.0	.0	.0	92.1
12&15	7.7	.0	.0	.0	.0	.0	.0	7.7	1.5	10.8	.0	.0	1.5	.0	.0	81.5
18&21	8.2	5.9	.0	.0	.0	.0	.0	14.1	1.2	9.4	1.2	.0	1.2	.0	.0	76.5
TOT PCT	6.7	3.3	.0	.0	.0	.0	.0	10.0	.7	5.6	.4	.0	.7	.0	.0	84.4
TOT OBS:	270															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	3.2	.1	.0	.0	.0		4.3	5.3	2.1	4.5	1.7	6.7	8.2	3.6	5.4	2.3
NE	1.8	6.5	.6	.0	.0	.0		8.9	6.1	3.6	8.2	4.5	19.4	3.9	10.7	9.5	2.8
E	4.3	18.5	5.5	.0	.0	.0		28.4	7.6	21.1	18.2	35.4	27.5	35.9	10.7	31.8	16.5
SE	3.9	19.4	3.7	.0	.0	.0		27.0	7.1	43.4	22.7	37.3	16.4	12.4	28.6	21.1	32.1
S	1.4	7.4	1.0	.0	.0	.0		9.8	6.8	16.3	27.3	6.4	3.9	5.7	14.3	7.4	19.3
SW	1.0	3.7	.4	.0	.0	.0		5.1	6.4	4.8	.0	2.4	1.7	4.4	10.7	6.2	11.0
W	.8	2.6	.4	.0	.0	.0		3.8	7.2	1.8	.0	2.8	3.9	4.2	7.1	3.7	6.0
NW	1.0	3.4	.8	.0	.0	.0		5.2	6.5	.9	9.1	2.4	16.1	5.3	14.3	5.0	1.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.5							7.5	.0	6.0	.0	6.9	4.4	10.1	.0	9.9	8.3
TOT OBS	158	447	86	0	0	0	691		6.4	83	11	144	90	119	14	121	109
TOT PCT	22.9	64.7	12.4	.0	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.3	1.0	.0	.0	.0		4.3	5.3	2.4	3.6	7.7	3.9
NE	5.4	3.5	.0	.0	.0		8.9	6.1	5.3	10.3	13.5	6.3
E	12.8	15.0	.6	.0	.0		28.4	7.6	20.7	32.4	33.3	24.6
SE	13.8	12.8	.3	.0	.0		27.0	7.[illegible]	41.0	29.3	14.1	26.3
S	[illegible]	3.5	.5	.0	.0		9.8	6.8	17.6	5.4	6.6	13.0
SW	3.1	1.7	.2	.0	.0		5.1	6.4	4.3	2.1	5.1	8.5
W	1.4	2.4	.0	.0	.0		3.8	7.2	1.6	3.2	4.5	4.8
NW	3.2	2.0	.0	.0	.0		5.2	6.5	1.9	7.7	6.2	3.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	7.5						7.5	.0	5.3	6.0	9.0	9.1
TOT OBS	390	290	11	0	0	691		6.4	94	234	133	230
TOT PCT	56.4	42.0	1.6	.0	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1911-1971
(OVER-ALL) 1860-1971

AREA 0010 SOUTHWEST AVA SEA
5.55 108.7E

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	5.3	10.6	69.1	14.9	.0	.0	.0	6.6	100.0	94
06&09	6.0	18.4	62.8	12.8	.0	.0	.0	6.5	100.0	234
12&15	9.0	13.5	66.2	11.3	.0	.0	.0	6.1	100.0	133
18&21	9.1	15.2	63.9	11.7	.0	.0	.0	6.4	100.0	230
TOT	52	106	447	86	0	0	0	6.4		691
PCT	7.5	15.3	64.7	12.4	.0	.0	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	1.9	1.4	.0		4.8
NE	1.9	.0	3.7	.0		4.3
E	11.1	11.6	11.1	1.9		3.9
SE	9.3	16.2	4.2	1.9		3.4
S	.0	1.4	3.2	.0		5.0
SW	.0	.5	.0	1.9		7.0
W	.0	.0	.0	.0		.0
NW	.0	.0	.5	.0		6.0
VAR	.0	.0	.0	.0		.0
CALM	3.7	3.7	7.4	1.9		4.8
TOT OBS	14	19	17	4	54	4.1
TOT PCT	25.9	35.2	31.5	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	.0	1.4	.0	.0	.0	.0	.0	1.9	
NE	.0	.0	.0	.0	1.9	1.9	.0	.0	.0	.0	1.9	
E	.0	.0	.0	.0	2.8	3.7	.0	.0	.0	.0	29.2	
SE	.0	.0	.0	1.9	2.8	.0	.0	.0	.0	.0	26.9	
S	.0	.0	.0	.0	.0	1.9	.0	.0	.0	.0	2.8	
SW	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.5	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	1.9	1.9	1.9	.0	.0	.0	.0	11.1	
TOT OBS	0	0	0	3	6	5	0	0	0	0	40	54
TOT PCT	.0	.0	.0	5.6	11.1	9.3	.0	.0	.0	.0	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 >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	7.3	9.1	9.1	9.1	9.1	9.1	9.1	9.1
* OR >1000	18.2	20.0	20.0	20.0	20.0	20.0	20.0	20.0
* OR >600	21.8	25.5	25.5	25.5	25.5	25.5	25.5	25.5
* OR >300	21.8	25.5	25.5	25.5	25.5	25.5	25.5	25.5
* OR >150	21.8	25.5	25.5	25.5	25.5	25.5	25.5	25.5
* OR > 0	21.8	25.5	25.5	25.5	25.5	25.5	25.5	25.5
TOTAL	12	14	14	14	14	14	14	14

TOTAL NUMBER OF OBS: 55 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
3.4	17.2	31.0	20.7	3.4	12.1	5.2	3.4	3.4	.0	58

MAY

PERIOD: (PRIMARY) 1911-1971
(OVER-ALL) 1860-1971

AREA 0010 SOUTHWEST JAVA SEA
5.5S 108.7E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.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	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4	
2<5	PCP	.0	.0	.8	.0	.4	.0	.2	.2	.0	.0	1.7	
	NO PCP	.0	.0	1.2	.8	.0	.0	.0	.0	.0	.0	2.1	
	TOT %	.0	.0	2.1	.8	.4	.0	.2	.2	.0	.0	3.7	
5<10	PCP	.0	.0	1.5	2.3	.4	.8	.0	.0	.0	.0	5.0	
	NO PCP	2.5	3.7	9.3	9.6	3.4	1.7	1.5	2.7	.0	1.7	36.1	
	TOT %	2.5	3.7	10.8	11.9	3.8	2.5	1.5	2.7	.0	1.7	41.1	
10+	PCP	.6	.2	.0	.2	.2	.0	.0	.0	.0	.0	1.2	
	NO PCP	2.2	6.6	13.1	15.1	5.1	3.0	1.5	2.8	.0	4.1	53.5	
	TOT %	2.8	6.8	13.1	15.4	5.3	3.0	1.5	2.8	.0	4.1	54.8	
	TOT OBS												241
	TOT PCT	5.3	11.0	25.9	28.1	9.5	5.5	3.1	5.7	.0	5.8	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	.2	.3	.0	.0	.0	.0	.0	.1	.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 %	.2	.3	.0	.0	.0	.0	.0	.1	.0	.0	.6	
2<5	0-3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
	4-10	.0	.0	1.5	.6	.3	.0	.1	.1	.0		2.6	
	11-21	.0	.0	.3	.0	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	1.7	.9	.3	.0	.1	.1	.0	.0	3.2	
5<10	0-3	.7	.4	.3	.7	.1	.3	.0	.0	.0	1.2	3.8	
	4-10	1.0	1.9	5.0	6.6	2.2	1.2	1.0	1.6	.0		20.4	
	11-21	.0	.6	2.3	1.4	.4	.3	.1	.4	.0		5.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	1.7	2.9	7.6	8.7	2.7	1.7	1.2	2.0	.0	1.2	29.7	
10+	0-3	.6	1.5	1.9	1.6	.3	1.0	.1	.3	.0	5.2	12.5	
	4-10	2.1	3.9	14.1	13.7	4.7	2.3	2.0	1.4	.0		44.3	
	11-21	.3	.1	4.4	3.9	.3	.0	.0	.6	.0		9.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	3.0	5.5	20.4	19.2	5.3	3.3	2.2	2.3	.0	5.2	66.5	
	TOT OBS												943
	TOT PCT	5.0	8.7	29.7	28.8	8.3	5.0	3.5	4.5	.0	6.4	100.0	

MAY

PERIOD: (PRIMARY) 1911-1971
(OVER-ALL) 1860-1971

AREA 0010 SOUTHWEST JAVA SEA
5.5S 108.7E

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 A'IV HGT	TOTAL OBS
00Z03	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	20.0	80.0	10
06Z09	.0	.0	.0	7.1	21.4	14.3	.0	.0	.0	.0	42.9	57.1	14
12Z15	.0	.0	.0	10.5	.0	15.8	.0	.0	.0	.0	26.3	73.7	19
18Z21	.0	.0	.0	.0	6.7	.0	.0	.0	.0	.0	6.7	93.3	15
TOT	0	0	0	3	6	5	0	0	0	0	14	44	58
PCT	.0	.0	.0	5.2	10.3	8.6	.0	.0	.0	.0	24.1	75.9	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
00Z03	.0	.0	.0	3.4	30.5	66.1	59
06Z09	.0	.0	.0	3.8	32.4	63.8	105
12Z15	.0	.0	2.4	4.7	29.4	63.5	85
18Z21	.8	.0	1.6	3.3	31.7	62.6	123
TOT	1	0	4	14	116	237	372
PCT	.3	.0	1.1	3.8	31.2	63.7	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
00Z03	.0	.0	.0	20.0	80.0	10
06Z09	.0	.0	8.3	41.7	50.0	12
12Z15	.0	.0	11.1	16.7	72.2	18
18Z21	.0	.0	.0	6.7	93.3	15
TOT	0	0	3	11	41	55
PCT	.0	.0	5.5	20.0	74.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.6	7.5	6.9	.0	24	15.0
80/84	.0	.0	.0	.0	3.8	23.8	35.0	15.6	125	78.1
75/79	.0	.0	.0	.0	.0	.6	3.8	2.5	11	6.9
TOTAL	0	0	0	0	7	51	73	29	160	100.0
PCT	.0	.0	.0	.0	4.4	31.9	45.6	18.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	1.6	2.2	4.7	3.4	.0	.0	.3	1.6	.0	1.3
	5.2	5.3	25.5	20.9	3.9	5.0	3.1	3.6	.0	5.6
	.0	.6	.9	2.8	.6	1.3	.0	.0	.0	.6
	6.7	8.1	31.1	27.2	4.5	6.3	3.4	5.2	.0	7.5

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00Z03	87	86	86	83	79	77	77	82.4	91
06Z09	90	89	88	84	80	77	75	84.1	216
12Z15	90	89	86	83	79	77	77	82.9	138
18Z21	86	85	84	82	79	77	76	81.8	240
TOT	90	88	87	83	79	77	75	82.8	685

TABLE 16

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	24.0	52.0	20.0	83	25
06Z09	.0	.0	5.9	31.4	51.0	11.8	81	51
12Z15	.0	.0	2.3	32.6	44.2	20.9	83	43
18Z21	.0	.0	6.0	29.9	41.8	22.4	83	67
TOT	0	0	9	56	86	35	82	186

MAY

PERIOD: (PRIMARY) 1911-1971
(OVER-ALL) 1860-1971

AREA 0010 SOUTHWEST JAVA SEA
5.5S 108.7E

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 THP DIF	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
5	.0	.0	.0	.5	1	.0	.5
4	.0	.0	.5	.5	2	.0	.9
3	.0	.9	3.7	.0	10	.0	4.7
2	.0	2.3	3.3	.0	12	.5	5.1
1	1.4	7.9	3.7	.5	29	.0	13.6
0	.5	16.4	3.3	1.4	46	.0	21.5
-1	.9	10.7	1.9	.0	29	.0	13.6
-2	1.4	14.5	.5	.0	35	.0	16.4
-3	.9	6.5	.0	.0	16	.0	7.5
-4	3.7	7.0	.0	.0	23	.0	10.7
-5	3.7	.9	.0	.0	10	.0	4.7
-6	.5	.0	.0	.0	1	.0	.5
TOTAL	28	144	36	6	214	1	213
PCT	13.1	67.3	16.8	2.8	100.0	.5	99.5

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

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

N

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

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	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

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.7	.0	.0	.0	.0	.0	2.7
1-2	.0	6.3	3.6	.0	.0	.0	9.8
3-4	.0	.0	5.4	.0	.0	.0	5.4
5-6	.0	3.6	3.6	.0	.0	.0	7.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.7	9.8	12.5	.0	.0	.0	25.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	.0	.0	.0	.0	.0	.9
1-2	.0	11.6	3.6	.0	.0	.0	15.2
3-4	.0	7.1	8.9	.0	.0	.0	16.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	4.5	.0	.0	.0	4.5
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	.9	18.8	17.0	.0	.0	.0	36.6

PERIOD: (OVER-ALL) 1963-1971

AREA 0010 SOUTHWEST JAVA SEA
5.55 108.7E

TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.6	.0	.0	.0	.0	3.6	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.7	.0	.0	.0	.0	2.7	.0	.9	.0	.0	.0	.0	.9
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	2.7	.0	.0	.0	2.7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.3	2.7	.0	.0	.0	8.9	.0	.9	0	.0	.0	.0	.9

	W							NW							
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.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	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.9	78.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	25.0	3.6	.0	.0	.0	.0	28.6	
1-2	.0	25.0	7.1	.0	.0	.0	32.1	
3-4	.0	10.7	14.3	.0	.0	.0	25.0	
5-6	.0	3.6	3.6	.0	.0	.0	7.1	
7	.0	.0	7.1	.0	.0	.0	7.1	
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	25.0	42.9	32.1	.0	.0	.0	100.0	28

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	8.9	31.1	13.3	4.4	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	2
6-7	.0	8.7	2.2	4.4	2.2	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	4
8-9	.0	.0	2.2	.0	2.2	.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	15.6	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	1
TOTAL	11	17	8	4	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	45	3
PCT	24.4	37.8	17.8	8.9	8.9	2.2	.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 0010 SOUTHWEST JAVA SEA
5.45 108.8E

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	7.5	.0	.0	.0	.0	.0	.0	7.5	.0	.0	.0	.0	15.1		.0	77.4
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	5.5	.0	.0		.0	91.8
E	4.5	3.0	.0	.0	.0	.0	.0	7.5	.0	5.0	12.4	.0	.0		.0	75.1
SE	5.7	2.5	.0	.0	.0	.0	.0	8.2	2.5	5.7	.6	.0	.0		.0	84.3
S	8.6	4.3	.0	.0	.0	.0	.0	12.9	.0	.0	.0	.0	.0		.0	87.1
SW	.0	.0	.0	.0	.0	.0	.0	.0	11.1	2.8	.0	.0	.0		.0	86.1
W	30.8	.0	.0	.0	.0	.0	.0	30.8	.0	53.8	.0	.0	.0		.0	46.2
NW	22.2	.0	11.1	.0	.0	.0	.0	22.2	.0	44.4	.0	.0	.0		.0	44.4
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	5.7	2.3	.4	.0	.0	.0	.0	8.0	1.1	6.1	5.3	.0	.8		.0	79.3
TOT OBS:	263															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER 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	9.3	3.7	.0	.0	.0	.0	.0	13.0	3.7	1.9	3.7	.0	.0		.0	77.8
06E09	4.6	3.1	1.5	.0	.0	.0	.0	7.7	.0	.0	6.2	.0	1.5		.0	84.6
12E15	1.5	.0	.0	.0	.0	.0	.0	1.5	1.5	9.0	3.0	.0	1.5		.0	83.6
18E21	7.9	2.2	.0	.0	.0	.0	.0	10.1	.0	11.2	9.0	.0	.0		.0	74.2
TOT PCT	5.8	2.2	.4	.0	.0	.0	.0	8.0	1.1	6.2	5.8	.0	.7		.0	79.6
TOT OBS:	275															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.3	1.9	.2	.0	.0	.0		3.4	4.8	2.3	4.2	2.1	5.6	6.9	.0	3.4	1.3
NE	1.1	7.3	1.4	.0	.0	.0		9.8	7.3	5.8	4.2	4.2	14.8	17.0	18.9	10.7	7.8
E	2.5	22.4	10.6	.2	.0	.0		35.7	9.1	26.0	29.2	35.0	51.4	39.2	46.9	39.3	27.4
SE	3.3	19.6	7.5	.2	.0	.0		30.5	8.7	36.8	50.0	37.3	17.6	21.8	21.9	28.2	36.1
S	1.2	5.3	1.2	.0	.0	.0		7.7	7.0	16.8	.0	7.0	.7	2.8	6.3	6.4	12.0
SW	1.1	2.7	.3	.0	.0	.0		4.1	6.2	8.0	4.2	5.9	.0	1.8	.0	1.9	6.3
W	.4	1.2	.6	.0	.0	.0		2.2	8.2	2.5	4.2	2.5	2.1	.9	.0	1.5	3.5
NW	1.3	2.1	.0	.0	.0	.0		3.3	4.7	.0	4.2	2.5	3.5	6.0	6.3	3.4	3.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.2							3.2	.0	2.0	.0	3.4	4.2	3.7	.0	5.1	1.7
TOT OBS	101	411	144	2	0	0	658		7.9	100	12	118	71	109	16	117	115
TOT PCT	15.3	62.5	21.9	.3	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	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	.7	.0	.0	.0		3.4	4.8	2.5	3.4	6.0	2.4
NE	4.5	5.4	.0	.0	.0		9.8	7.3	5.6	8.2	17.2	9.3
E	12.0	21.2	2.5	.0	.0		35.7	9.1	26.3	41.1	40.2	33.4
SE	10.3	18.4	1.9	.0	.0		30.5	8.7	38.2	29.9	21.8	32.1
S	4.3	3.3	.2	.0	.0		7.7	7.0	15.0	4.6	3.2	9.2
SW	2.4	1.7	.0	.0	.0		4.1	6.2	7.6	3.7	1.6	4.1
W	.8	1.2	.2	.0	.0		2.2	8.2	2.7	2.4	.8	2.5
NW	2.6	.8	.0	.0	.0		3.3	4.7	.4	2.9	6.0	3.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.2						3.2	.0	1.8	3.7	3.2	3.4
TOT OBS	281	348	31	0	0	658		7.9	112	189	125	232
TOT PCT	42.7	52.6	4.7	.0	.0		100.0		100.0	100.0	100.0	100.0

JUNE

PERIOD: (PRIMARY) 1912-1972
(OVER-ALL) 1862-1972

AREA 0010 SOUTHWEST JAVA SEA
5.4S 108.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.8	10.7	63.4	24.1	.0	.0	.0	8.2	100.0	112
06&09	3.7	9.5	62.4	23.8	.5	.0	.0	8.[illegible]	100.0	189
12&15	3.2	12.8	64.0	19.2	.8	.0	.0	7.6	100.0	125
18&21	3.4	14.7	61.2	20.7	.0	.0	.0	7.6	100.0	232
TOT	21	80	411	144	2	0	0	7.9		658
PCT	3.2	12.2	62.5	21.9	.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	9 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	1.1	.0		6.0
NE	.0	1.4	1.1	.0		5.0
E	15.6	9.8	10.5	2.2		3.6
SE	6.2	20.7	9.1	2.2		4.2
S	.7	1.4	2.5	1.4		5.7
SW	3.6	.0	1.8	.0		2.8
W	.0	.0	.0	1.4		8.0
NW	.0	.0	.0	1.4		8.0
VAR	.0	.0	.0	.0		.0
CALM	1.4	1.4	2.9	.0		4.2
TOT OBS	19	24	20	6	69	4.1
TOT PCT	27.5	34.8	29.0	8.7	100.0	

TABLE 6

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

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	
NE	.0	.0	.0	.4	.4	.0	.0	.0	.0	.0	1.8	
E	.0	.0	.0	1.1	5.1	1.4	1.4	.0	.0	.0	29.0	
SE	.0	.0	1.4	1.8	.4	.0	.0	.0	.0	.0	34.4	
S	.0	.0	.0	.0	4.0	.0	.0	.0	.0	.0	2.2	
SW	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	5.1	
W	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	
NW	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	4.3	
TOT OBS	0	0	1	4	8	2	1	0	0	0	53	69
TOT PCT	.0	.0	1.4	5.8	11.6	2.9	1.4	.0	.0	.0	76.8	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4
* OR >2000	2.8	4.2	4.2	4.2	4.2	4.2	4.2	4.2
* OR >1000	11.3	14.1	15.5	15.5	15.5	15.5	15.5	15.5
* OR >600	15.5	19.7	21.1	21.1	21.1	21.1	21.1	21.1
* OR >300	15.5	19.7	22.5	22.5	22.5	22.5	22.5	22.5
* OR >150	15.5	19.7	22.5	22.5	22.5	22.5	22.5	22.5
* OR > 0	15.5	19.7	22.5	22.5	22.5	22.5	22.5	22.5
TOTAL	11	14	16	16	16	16	16	16

TOTAL NUMBER OF OBS: 71 PCT FREQ NH <5/8: 77.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
10.4	15.6	15.6	18.2	15.6	9.1	3.9	5.2	6.5	.0	77

JUNE

PERIOD: (PRIMARY) 1912-1972
(OVER-ALL) 1862-1972

AREA 0010 SOUTHWEST JAVA SEA
5.4S 108.8E

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	.2	.0	.0	.0	.0	.0	.0	.2	.0	.0	.4	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.0	.0	.0	.0	.0	.0	.2	.0	.0	.4	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	1.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	1.1	
2<5	PCP	.4	.0	.4	.0	.4	.0	.4	.4	.0	.0	1.9	
	NO PCP	.0	.4	1.1	.8	.0	.4	.0	.0	.0	.0	2.7	
	TOT %	.4	.4	1.5	.8	.4	.4	.4	.4	.0	.0	4.5	
5<10	PCP	.0	.0	.9	1.3	.4	.0	.0	.4	.0	.0	3.0	
	NO PCP	3.2	3.0	15.0	9.9	4.0	1.2	.0	.4	.0	1.1	37.9	
	TOT %	3.2	3.0	15.9	11.3	4.4	1.2	.0	.8	.0	1.1	40.9	
10+	PCP	.0	.0	.4	1.1	.4	.0	.0	.0	.0	.0	1.9	
	NO PCP	1.4	3.5	19.1	17.0	3.7	1.8	.9	2.3	.0	1.5	51.1	
	TOT %	1.4	3.5	19.5	18.1	4.1	1.8	.9	2.3	.0	1.5	53.0	
	TOT OBS												264
	TOT PCT	5.2	6.9	38.1	30.1	8.8	3.4	1.2	3.6	.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	.1	.0	.4	1.0	.0	.0	.0	.1	.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 %	.1	.0	.4	1.0	.0	.0	.0	.1	.0	.0	1.7	
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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.8	.0	.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	.8	.0	.0	.0	.0	.0	.0	.0	.8	
2<5	0-3	.3	.0	.3	.3	.0	.0	.0	.3	.0	.0	1.1	
	4-10	.0	.3	.8	.3	.0	.3	.3	.0	.0		1.9	
	11-21	.0	.0	.3	.0	.3	.0	.0	.0	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.3	1.4	.6	.3	.3	.3	.3	.0	.0	3.6	
5<10	0-3	.8	.0	.1	1.0	.5	.0	.0	.0	.0	1.1	3.6	
	4-10	1.5	2.2	6.9	5.1	1.9	1.0	.1	.6	.0		19.3	
	11-21	.0	.0	5.4	2.3	.8	.0	.0	.0	.0		8.5	
	22+	.0	.0	.3	.0	.0	.0	.0	.0	.0		.3	
	TOT %	2.3	2.2	12.7	8.5	3.2	1.0	.1	.6	.0	1.1	31.7	
10+	0-3	.8	.3	1.8	2.5	1.3	.4	.0	1.1	.0	2.2	10.5	
	4-10	1.0	4.3	13.9	13.8	2.1	1.2	.9	1.9	.0		39.1	
	11-21	.0	.1	6.1	4.7	.7	.3	.3	.0	.0		12.1	
	22+	.0	.0	.0	.3	.0	.0	.0	.0	.0		.3	
	TOT %	1.9	4.8	21.8	21.3	4.1	1.9	1.2	3.0	.0	2.2	62.0	
	TOT OBS												363
	TOT PCT	4.6	7.2	37.2	31.4	7.5	3.2	1.6	4.0	.0	3.3	100.0	

JUNE

PERIOD: (PRIMARY) 1912-1972
(OVER-ALL) 1862-1972

AREA 0010 SOUTHWEST JAVA SEA
5.4S 108.8E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00Z03	.0	.0	4.5	13.6	13.6	4.5	.0	.0	.0	.0	36.4	63.6	22
06Z09	.0	.0	.0	4.8	9.5	.0	.0	.0	.0	.0	14.3	85.7	21
12Z15	.0	.0	.0	.0	.0	5.6	5.6	.0	.0	.0	11.1	88.9	18
18Z21	.0	.0	.0	.0	23.1	.0	.0	.0	.0	.0	23.1	76.9	13
TOT	0	0	1	4	8	2	1	0	0	0	16	58	74
PCT	.0	.0	1.4	5.4	10.8	2.7	1.4	.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
00Z03	5.7	.0	1.4	4.3	27.1	61.4	70
06Z09	1.1	1.1	1.1	3.4	30.3	62.9	89
12Z15	1.2	.0	.0	4.8	26.2	67.9	84
18Z21	.0	.0	.8	2.3	42.4	54.5	132
TOT	6	1	3	13	124	228	375
PCT	1.6	.3	.8	3.5	33.1	60.8	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
00Z03	.0	4.5	22.7	13.6	63.6	22
06Z09	.0	.0	4.8	9.5	85.7	21
12Z15	.0	.0	.0	13.3	86.7	15
18Z21	.0	.0	.0	23.1	76.9	13
TOT	0	1	6	10	55	71
PCT	.0	1.4	8.5	14.1	77.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	4.4	7.1	1.1	.0	23	12.6
80/84	.0	.0	.0	.0	6.6	29.1	31.9	8.2	138	75.8
75/79	.0	.0	.0	.0	.0	3.3	4.4	3.3	20	11.0
70/74	.0	.0	.0	.0	.0	.5	.0	.0	1	.5
TOTAL	0	0	0	0	20	73	68	21	182	100.0
PCT	.0	.0	.0	.0	11.0	40.1	37.4	11.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.5	1.4	6.0	2.5	.0	.5	.0	1.6	.0	.0
5.4	5.1	29.9	22.8	5.9	1.8	.0	1.6	.0	3.3
.5	.0	1.8	2.3	2.5	1.2	1.5	1.1	.0	.0
.0	.0	.0	.0	.5	.0	.0	.0	.0	.0
6.5	6.5	37.8	27.6	8.9	3.6	1.5	4.4	.0	3.3

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00Z03	93	90	85	82	78	74	74	81.9	108
06Z09	94	90	88	83	80	76	75	83.5	187
12Z15	90	87	86	83	80	77	77	82.7	126
18Z21	85	84	84	82	79	78	77	81.5	236
TOT	94	89	86	82	79	77	74	82.4	657

TABLE 16

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	2.7	45.9	37.8	13.5	81	37
06Z09	.0	.0	27.1	41.7	25.0	6.3	76	48
12Z15	.0	.0	10.5	44.7	36.8	7.9	79	38
18Z21	.0	.0	4.3	33.3	46.4	15.9	82	69
TOT	0	0	21	77	72	22	80	192

JUNE

PERIOD: (PRIMARY) 1912-1972
(OVER-ALL) 1862-1972

AREA 0010 SOUTHWEST JAVA SEA
5.4S 108.8E

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
7/8	.0	.0	.9	.0	.0	2	.0	.9
5	.0	.5	.5	.9	.9	6	.0	2.7
4	.0	.5	1.8	.9	.0	7	.5	2.7
3	.0	.0	.5	2.3	.0	6	.0	2.7
2	.0	.5	5.0	4.5	.0	22	.9	9.0
1	.0	1.4	5.9	1.8	.0	20	3.2	5.9
0	.0	2.3	13.6	2.3	.0	40	1.4	16.7
-1	.0	1.8	13.6	.0	.0	34	.9	14.5
-2	.0	3.2	13.1	.0	.0	36	.5	15.6
-3	.0	1.4	4.5	.5	.0	14	.0	6.3
-4	.0	2.7	4.5	.0	.0	16	.0	7.2
-5	.0	1.8	2.7	.0	.0	10	.0	4.5
-6	.5	.5	.9	.0	.0	4	.0	1.8
-7/-8	.5	.5	.5	.0	.0	3	.0	1.4
-11/-13	.0	.5	.0	.0	.0	1	.0	.5
TOTAL	2	38	150	29	2	221	16	205
PCT	.9	17.2	67.9	13.1	.9	100.0	7.2	92.8

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	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.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	15.2	.0	.0	.0	.0	15.2
3-4	.0	2.3	11.4	.0	.0	.0	13.6
5-6	.0	.0	6.1	.0	.0	.0	6.1
7	.0	.0	2.3	3.0	.0	.0	5.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	17.4	19.7	3.0	.0	.0	40.2

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	15.2	9.1	.0	.0	.0	24.2
3-4	.0	.8	9.8	3.0	.0	.0	13.6
5-6	.0	3.0	3.0	.0	.0	.0	6.1
7	.0	.0	.8	.0	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	18.9	22.7	3.0	.0	.0	44.7

PERIOD: (OVER-ALL) 1963-1972

JUNE

AREA 0010 SOUTHWEST JAVA SEA
5.4S 108.8E

TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.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	2.3	.0	.0	.0	.0	2.3	.0	4.5	.0	.0	.0	.0	4.5
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	.0	2.3	.0	.0	.0	.0	2.3	.0	4.5	.0	.0	.0	.0	4.5

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	2.3	.0	.0	.0	.0	2.3	.0	6.1	.0	.0	.0	.0	6.1	
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	2.3	.0	.0	.0	.0	2.3	.0	6.1	.0	.0	.0	.0	6.1	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	30.3	9.1	.0	.0	.0	39.4	
3-4	.0	18.2	21.2	3.0	.0	.0	42.4	
5-6	.0	3.0	9.1	.0	.0	.0	12.1	
7	.0	.0	3.0	3.0	.0	.0	6.1	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	51.5	42.4	6.1	.0	.0	100.0	33

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	6.5	32.3	11.3	11.3	4.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	3
6-7	.0	1.6	8.1	1.6	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	4
8-9	.0	.0	3.2	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	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	3.2	.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	3.2	3.2	3.2	1.6	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	3
TOTAL	6	23	18	7	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62	3
PCT	9.7	37.1	29.0	14.5	9.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1858-1972

AREA 0010 SOUTHWEST JAVA SEA
5.5S 108.8E

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	11.8	.0	.0	88.2
NE	.0	.0	7.1	.0	.0	.0	.0	7.1	.0	3.5	10.6	.0	.0	.0	.0	79.8
E	.0	2.5	.0	.0	.0	.0	.0	2.5	.0	2.5	4.3	.0	1.2	.0	.0	89.5
SE	.6	.0	.0	.0	.0	.0	.0	.6	1.1	1.1	2.8	.0	.0	.0	.0	94.4
S	2.2	.0	.0	.0	.0	.0	.0	2.2	.0	8.8	4.4	.0	.0	.0	.0	84.6
SW	.0	10.0	.0	.0	.0	.0	.0	10.0	10.0	.0	10.0	.0	.0	.0	.0	70.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23.1	.0	.0	76.9
NW	30.8	.0	.0	.0	.0	.0	.0	30.8	.0	.0	.0	.0	23.1	.0	.0	47.2
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	1.2	1.2	.8	.0	.0	.0	.0	3.1	.8	2.4	4.3	.0	2.0	.0	.0	87.4
TOT OBS:	254															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER 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	2.0	.0	2.0	.0	.0	.0	.0	4.1	.0	.0	2.0	.0	.0	.0	93.9
06&09	.0	.0	1.5	.0	.0	.0	.0	1.5	.0	.0	8.8	.0	5.9	.0	83.8
12&15	1.7	1.7	.0	.0	.0	.0	.0	3.3	.0	1.7	3.3	.0	1.7	.0	90.0
18&21	1.0	2.1	.0	.0	.0	.0	.0	3.1	2.1	5.2	4.1	.0	1.0	.0	84.5
TOT PCT	1.1	1.1	.7	.0	.0	.0	.0	2.9	.7	2.2	4.7	.0	2.2	.0	87.2
TOT OBS:	274														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.6	2.2	.1	.0	.0	.0		2.9	5.4	.9	.0	1.8	8.5	4.1	6.3	2.3	.7
NE	1.1	8.2	2.0	.0	.0	.0		11.4	7.5	3.9	4.5	3.3	20.5	27.0	6.3	11.9	5.8
E	1.4	19.6	8.5	.1	.0	.0		29.6	9.0	19.3	27.3	30.7	35.0	29.9	59.4	35.9	22.8
SE	3.1	20.9	9.8	*	.0	.0		33.9	9.0	54.1	68.2	43.2	22.0	19.1	12.5	23.7	40.2
S	1.7	7.2	2.7	.0	.0	.0		11.7	7.8	15.7	.0	10.3	6.0	5.9	2.1	12.4	19.9
SW	.6	2.8	.4	.0	.0	.0		3.9	6.6	3.9	.0	5.1	1.5	2.9	6.3	4.7	4.3
W	1.2	1.1	.1	.0	.0	.0		2.4	4.0	2.2	.0	1.5	3.0	5.3	.0	.7	2.5
NW	.3	1.3	.1	.0	.0	.0		1.7	6.5	.0	.0	.7	2.5	4.1	.0	3.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.7							2.7	.0	.0	.0	2.9	1.0	1.6	6.3	5.0	3.6
TOT OBS	101	498	187	1	0	0	787		8.1	115	11	136	100	122	16	149	138
TOT PCT	12.8	63.3	23.8	.1	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	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	.7	.0	.0	.0		2.9	5.4	.8	4.7	4.3	1.6
NE	5.7	5.4	.3	.0	.0		11.4	7.5	4.0	10.6	24.6	9.0
E	9.2	18.7	1.7	.0	.0		29.6	9.0	20.0	32.5	33.3	29.6
SE	11.2	20.2	2.5	.0	.0		33.9	9.0	55.4	34.2	18.3	31.6
S	5.1	6.1	.4	.0	.0		11.7	7.8	14.3	8.5	5.6	16.0
SW	2.7	1.0	.3	.0	.0		3.9	6.6	3.6	3.6	3.3	4.5
W	2.2	.2	.0	.0	.0		2.4	4.0	2.0	2.3	4.7	1.6
NW	.8	.8	.0	.0	.0		1.7	6.5	.0	1.5	3.6	1.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.7						2.7	.0	.0	2.1	2.2	4.5
TOT OBS	329	417	41	0	0	787		8.1	126	236	138	287
TOT PCT	41.8	53.0	5.2	.0	.0		100.0		100.0	100.0	100.0	100.0

JULY

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1858-1972

AREA 0010 SOUTHWEST JAVA SEA
5.5S 108.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	10.3	57.1	32.5	.0	.0	.0	9.2	100.0	126
06&09	2.1	10.2	62.7	25.0	.0	.0	.0	8.2	100.0	236
12&15	2.2	10.9	70.3	16.7	.0	.0	.0	7.3	100.0	138
18&21	4.5	9.8	63.1	22.3	.3	.0	.0	7.8	100.0	287
TOT	21	80	498	187	1	0	0	8.1		787
PCT	2.7	10.2	63.3	23.8	.1	.0	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.0		.0
NE	1.8	2.9	1.5	2.9		4.6
E	17.6	10.3	10.7	.0		3.0
SE	14.7	11.0	11.4	.7		3.3
S	2.6	3.7	.0	.7		2.9
SW	1.5	.0	2.9	.0		4.6
W	.0	.0	.0	.0		.0
NW	.0	.0	1.5	.0		7.0
VAR	.0	.0	.0	.0		.0
CALM	.0	1.5	.0	.0		3.0
TOT OBS	26	20	19	3	68	3.4
TOT PCT	38.2	29.4	27.9	4.4	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NE	.0	.0	.0	1.5	.0	.0	1.5	.0	.0	.0	6.3	
E	.0	.0	.0	.0	2.9	.0	.7	.0	.0	1.5	33.5	
SE	.0	.0	.0	.0	2.2	1.5	.7	.0	.0	.0	33.5	
S	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	6.3	
SW	.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0	2.9	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
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	1.5	
TOT OBS	0	0	0	1	4	2	2	0	0	1	58	68
TOT PCT	.0	.0	.0	1.5	5.9	2.9	2.9	.0	.0	1.5	85.3	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.4	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	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
* OR >2000	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
* OR >1000	10.0	12.9	12.9	12.9	12.9	12.9	12.9	12.9
* OR >600	11.4	14.3	14.3	14.3	14.3	14.3	14.3	14.3
* OR >300	11.4	14.3	14.3	14.3	14.3	14.3	14.3	14.3
* OR >150	11.4	14.3	14.3	14.3	14.3	14.3	14.3	14.3
* OR > 0	11.4	14.3	14.3	14.3	14.3	14.3	14.3	14.3
TOTAL	8	10	10	10	10	10	10	10

TOTAL NUMBER OF OBS: 70 PCT FREQ NH <5/8: 85.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
13.3	25.3	21.3	14.7	10.7	1.3	1.3	8.0	4.0	.0	75

JULY

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1856-1972

AREA 0010 SOUTHWEST JAVA SEA
5.5S 108.8E

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	.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	.4	1.0	.6	.4	.0	.0	.0	.0	.0	2.4	
	TOT %	.0	.4	1.0	.6	.4	.0	.0	.0	.0	.0	2.4	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	NO PCP	.0	.0	.4	.0	.0	.0	.6	.6	.0	.0	1.6	
	TOT %	.0	.0	.4	.0	.0	.0	.6	.6	.0	.0	1.6	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	NO PCP	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.8	
	TOT %	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.8	
	PCP	.0	.0	.4	.2	.2	.4	.0	.8	.0	.0	2.0	
5<10	NO PCP	2.0	5.7	11.1	14.9	4.3	2.0	2.0	.6	.0	.8	43.3	
	TOT %	2.0	5.7	11.5	15.1	4.5	2.4	2.0	1.4	.0	.8	45.3	
	PCP	.0	.8	.4	.0	.0	.0	.0	.0	.0	.0	1.2	
10+	NO PCP	1.4	4.2	18.6	18.4	4.0	1.6	.0	.6	.0	.0	48.8	
	TOT %	1.4	5.0	19.0	18.4	4.0	1.6	.0	.6	.0	.0	50.0	
	TOT OBS												254
	TOT PCT	3.3	11.1	31.9	34.8	9.0	3.9	2.6	2.6	.0	.8	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.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	.3	.6	.3	.0	.0	.0	.0	.0		1.1	
	11-21	.0	.0	.1	.1	.3	.0	.0	.0	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.3	.7	.4	.3	.0	.0	.0	.0	.0	1.7	
	0-3	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
1<2	4-10	.0	.0	.3	.0	.0	.0	.0	.3	.0		.6	
	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	^	.3	.0	.0	.0	.4	.4	.0	.0	1.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	4-10	.0	.0	.8	.8	.0	.0	.0	.0	.0		1.7	
	11-21	.0	.0	.0	.1	.1	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.8	1.0	.1	.0	.0	.0	.0	.0	2.0	
	0-3	.1	.0	.3	.8	.8	.3	.3	.1	.0	.6	3.4	
5<10	4-10	1.1	3.8	4.8	7.6	2.0	1.1	1.4	.8	.0		22.6	
	11-21	.1	.3	3.1	2.8	.7	.3	.0	.0	.0		7.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	1.4	4.1	8.2	11.2	3.5	1.7	1.7	1.0	.0	.6	33.2	
	0-3	.4	1.5	.8	.8	.3	.0	.0	.0	.0	1.1	5.0	
10+	4-10	1.0	5.9	15.2	12.3	4.3	.8	.0	.4	.0		39.9	
	11-21	.0	1.3	6.1	7.5	1.6	.3	.0	.0	.0		16.8	
	22+	.0	.0	.2	.1	.0	.0	.0	.0	.0		.3	
	TOT %	1.4	8.7	22.3	20.7	6.2	1.1	.0	.4	.0	1.1	62.0	
	TOT OBS												358
	TOT PCT	2.8	13.1	32.3	33.4	10.1	2.8	2.1	1.8	.0	1.7	100.0	

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1858-1972

AREA 0010 SOUTHWEST JAVA SEA
5.5S 108.8E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00Z03	.0	.0	.0	5.3	15.8	5.3	.0	.0	.0	.0	26.3	73.7	19
06Z09	.0	.0	.0	.0	.0	6.7	6.7	.0	.0	.0	13.3	86.7	15
12Z15	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	4.8	95.2	21
18Z21	.0	.0	.0	.0	5.3	.0	5.3	.0	.0	.0	10.5	89.5	19
TOT	0	0	0	1	4	2	2	0	0	1	10	64	74
PCT	.0	.0	.0	1.4	5.4	2.7	2.7	.0	.0	1.4	13.5	86.5	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	.0	1.5	.0	.0	32.8	65.7	67
06Z09	.0	5.2	3.1	1.0	30.2	60.4	96
12Z15	.0	.0	1.2	6.2	28.4	64.2	81
18Z21	.0	.0	.7	.7	43.3	55.2	134
TOT	0	6	5	7	132	228	378
PCT	.0	1.6	1.3	1.9	34.9	60.3	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	5.6	22.2	72.2	18
06Z09	.0	.0	.0	13.3	86.7	15
12Z15	.0	.0	.0	5.3	94.7	19
18Z21	.0	.0	.0	11.1	88.9	18
TOT	0	0	1	9	60	70
PCT	.0	.0	1.4	12.9	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	2.2	1.7	.0	.0	7	3.9
80/84	.0	.0	.0	2.8	9.4	38.7	23.2	5.0	143	79.0
75/79	.0	.0	.0	.6	.0	6.1	8.3	2.2	31	17.1
TOTAL	0	0	0	6	21	84	57	13	181	100.0
PCT	.0	.0	.0	3.3	11.6	46.4	31.5	7.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.3	.3	1.9	.3	.8	.3	.0	.0	.0	.0
3.0	11.5	22.0	26.9	7.0	3.6	1.4	3.0	.0	.6
.3	.8	3.5	6.5	2.8	.6	2.2	.6	.0	.0
3.6	12.6	27.3	33.7	10.6	4.4	3.6	3.6	.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	86	85	84	81	79	77	75	81.1	124
06Z09	89	88	86	83	80	77	76	82.8	227
12Z15	86	85	84	82	78	75	73	81.7	140
18Z21	87	84	83	81	78	75	75	80.5	294
TOT	89	86	85	82	78	75	73	81.5	785

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
00Z03	.0	.0	.0	50.0	43.8	6.3	80	32
06Z09	.0	6.3	35.4	33.3	16.7	8.3	74	48
12Z15	.0	2.4	7.1	64.3	23.8	2.4	77	42
18Z21	.0	2.7	2.7	45.3	38.7	10.7	80	75
TOT	0	6	22	93	61	15	78	197

JULY

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1858-1972

AREA 0010 SOUTHWEST JAVA SEA
5.5S 108.8E

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
7/8	.0	.0	.0	.5	.0	1	.0	.5
4	.0	.0	.5	1.4	.0	4	.0	1.9
3	.0	.0	2.3	.0	.0	5	.0	2.3
2	.0	.0	5.1	.9	.5	14	.0	6.5
1	.0	.9	4.7	1.4	.0	15	1.4	5.6
0	.0	2.8	20.6	1.4	.0	66	2.8	28.0
-1	.0	3.7	11.2	.0	.0	32	.5	14.5
-2	.0	4.7	15.0	.0	.0	42	.5	19.2
-3	.0	4.2	3.3	.0	.0	16	.5	7.0
-4	.9	3.7	1.4	.0	.0	13	.0	6.1
-5	.5	1.9	.5	.0	.0	6	.0	2.8
TOTAL	3	47	151	12	1	214	12	202
PCT	1.4	22.0	70.6	5.6	.5	100.0	5.6	94.4

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.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	3.2	.0	.0	.0	.0	3.2
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	.0	9.7	.0	.0	.0	.0	9.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	3.2	8.1	6.5	.0	.0	.0	17.7
3-4	.0	.0	16.9	.0	.0	.0	16.9
5-6	.0	.0	2.4	.0	.0	.0	2.4
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	3.2	8.1	28.2	.0	.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	3.2	8.1	.0	.0	.0	.0	11.3
3-4	.0	.0	15.3	.0	.0	.0	15.3
5-6	.0	.0	4.8	.0	.0	.0	4.8
7	.0	.0	.8	.0	.0	.0	.8
8-9	.0	.0	3.2	.0	.0	.0	3.2
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	3.2	8.1	24.2	.0	.0	.0	35.5

PERIOD: (OVER-ALL) 1963-1972

JULY

AREA 0010 SOUTHWEST JAVA SEA
5.5S 108.8E

TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	3.2	.0	.0	.0	3.2	.0	3.2	.0	.0	.0	.0	3.2
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	2.4	.0	.0	.0	2.4	.0	.0	3.2	.0	.0	.0	3.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	5.6	.0	.0	.0	5.6	.0	3.2	3.2	.0	.0	.0	6.5

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	3.2	.0	.0	.0	.0	3.2	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	3.2	.0	.0	.0	.0	3.2	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	3.2	.0	.0	.0	.0	3.2	
1-2	6.5	29.0	9.7	.0	.0	.0	45.2	
3-4	.0	.0	32.3	.0	.0	.0	32.3	
5-6	.0	.0	12.9	.0	.0	.0	12.9	
7	.0	.0	3.2	.0	.0	.0	3.2	
8-9	.0	.0	3.2	.0	.0	.0	3.2	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.5	32.3	61.3	.0	.0	.0	100.0	31

PERIOD: (OVER-ALL) 1950-1972

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.0	29.4	15.7	5.9	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	3
6-7	.0	3.9	9.8	13.7	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	4
8-9	.0	.0	2.0	.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	2.0	3.9	3.9	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	3
TOTAL	2	19	16	11	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	51	3
PCT	3.9	37.3	31.4	21.6	3.9	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1911-1972
(OVER-ALL) 1860-1972

AREA 0010 SOUTHWEST JAVA SEA
5.4S 108.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1	.0	92.9
NE	.0	.0	3.1	.0	.0	.0	.0	3.1	.0	2.3	.0	.0	9.2	.0	85.5
E	.0	1.2	.0	.0	.0	.0	.0	1.2	.6	2.7	.0	.0	5.2	.0	90.3
SE	1.0	1.0	.0	.0	.0	.0	.0	2.1	.5	1.0	.0	.0	2.9	.0	93.5
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	.0	96.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15.4	.0	84.6
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	.4	.7	.4	.0	.0	.0	.0	1.5	.4	1.5	.0	.0	5.2	.0	91.5
TOT OBS:	271														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00C03	.0	.0	.0	.0	.0	.0	.0	.0	1.9	1.9	.0	.0	5.6	.0	90.7
06C09	.0	1.3	1.3	.0	.0	.0	.0	2.6	.0	.0	.0	.0	7.7	.0	89.7
12C15	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	.0	.0	6.3	.0	92.2
18C21	1.2	1.2	.0	.0	.0	.0	.0	2.3	.0	2.3	.0	.0	5.8	.0	89.5
TOT PCT	.4	.7	.4	.0	.0	.0	.0	1.4	.4	1.4	.0	.0	6.4	.0	90.4
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	.7	2.0	.7	.0	.0	.0		3.4	7.1	.4	.0	.0	7.5	9.1	5.3	4.1	1.1
NE	1.3	7.8	1.9	.0	.0	.0		11.0	7.9	2.9	11.1	3.6	20.5	28.3	10.5	11.9	3.3
E	2.9	22.2	9.0	.7	.0	.0		34.8	9.1	23.2	22.2	32.8	42.5	39.3	42.1	39.3	33.1
SE	1.5	18.5	11.4	1.0	.0	.0		32.4	10.1	50.2	30.6	45.9	19.0	15.9	15.8	23.9	36.8
S	.6	6.9	2.4	.1	.0	.0		9.9	8.5	15.2	30.6	10.4	1.5	.8	26.3	8.3	16.9
SW	.6	1.9	.8	.0	.0	.0		3.2	7.6	4.9	5.6	1.3	2.0	.0	.0	5.2	5.9
W	.2	.9	.1	.0	.0	.0		1.2	6.6	.8	.0	1.7	.0	1.7	.0	2.6	.4
NW	.1	.8	.0	.0	.0	.0		.8	6.1	.0	.0	.3	2.0	1.7	.0	1.1	.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.3							3.3	.0	2.5	.0	4.0	5.0	3.3	.0	3.7	2.2
TOT OBS	88	483	208	14	0	0	793		8.8	122	9	151	100	121	19	135	136
TOT PCT	11.1	60.9	26.2	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	1.8	1.6	.0	.0	.0		3.4	7.1	.4	3.0	8.6	2.6
NE	3.2	6.5	.3	.0	.0		11.0	7.9	3.4	10.4	25.9	7.6
E	10.4	22.3	2.0	.1	.0		34.8	9.1	23.1	36.7	39.6	36.2
SE	8.1	20.6	3.5	.1	.0		32.4	10.1	48.9	35.2	15.9	30.4
S	3.8	5.7	.4	.0	.0		9.9	8.5	10.2	6.9	4.3	12.6
SW	1.5	1.6	.1	.0	.0		3.2	7.6	5.0	1.6	.0	5.5
W	.7	.5	.0	.0	.0		1.2	6.6	.8	1.0	1.4	1.5
NW	.6	.3	.0	.0	.0		.8	6.1	.0	1.0	1.4	.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.3						3.3	.0	2.3	4.4	2.9	3.0
TOT OBS	272	469	51	1	0	793		8.8	131	251	140	271
TOT PCT	34.3	59.1	6.4	.1	.0		100.0		100.0	100.0	100.0	100.0

AUGUST

PERIOD: (PRIMARY) 1911-1972
(OVER-ALL) 1880-1972

AREA 0010 SOUTHWEST JAVA SEA
5.45 108.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.3	7.6	59.8	29.8	1.5	.0	.0	9.1	100.0	131
06&09	4.4	7.6	58.6	27.5	2.0	.0	.0	9.0	100.0	251
12&15	2.9	9.3	65.7	20.7	1.4	.0	.0	8.4	100.0	140
18&21	3.0	7.4	61.6	26.2	1.8	.0	.0	8.6	100.0	271
TOT	26	62	483	208	14	0	0	8.8		793
PCT	3.3	7.8	60.9	26.2	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	2.3	.0	1.1	.0		2.3
NE	.0	4.0	.0	1.1		4.3
E	11.2	11.2	5.7	.9		3.0
SE	16.4	14.7	14.4	2.6		3.4
S	.0	2.6	1.7	.0		4.5
SW	.0	1.1	.0	.0		3.0
W	.0	1.1	.0	1.1		6.0
NW	.0	.0	1.1	.0		5.0
VAR	.0	.0	.0	.0		.0
CALM	1.1	.0	2.3	.0		4.3
TOT OBS	27	32	23	5	87	3.5
TOT PCT	31.0	36.8	26.4	5.7	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	3.4	
NE	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	6.0	
E	.0	.0	.9	2.0	.0	1.1	.0	.0	.0	.0	25.0	
SE	.0	.0	.3	.3	1.1	2.3	.0	.0	.0	.0	44.0	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	
TOT OBS	0	0	1	3	1	3	0	0	0	0	79	87
TOT PCT	.0	.0	1.1	3.4	1.1	3.4	.0	.0	.0	.0	90.8	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >500YD	* OR >0
* OR >6500	.0	.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	3.4	3.4	3.4	3.4	3.4	3.4	3.4
* OR >1000	2.3	4.6	4.6	4.6	4.6	4.6	4.6	4.6
* OR >600	3.4	6.9	8.0	8.0	8.0	8.0	8.0	8.0
* OR >300	4.6	8.0	9.2	9.2	9.2	9.2	9.2	9.2
* OR >150	4.6	8.0	9.2	9.2	9.2	9.2	9.2	9.2
* OR > 0	4.6	8.0	9.2	9.2	9.2	9.2	9.2	9.2
TOTAL	4	7	8	8	8	8	8	8

TOTAL NUMBER OF OBS: 87 PCT FREQ NH <5/8: 90.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
16.1	16.1	24.7	18.3	15.1	3.2	7.2	3.2	1.1 .0	93

AUGUST

PERIOD: (PRIMARY) 1911-1972
(OVER-ALL) 1880-1972

AREA 0010 SOUTHWEST JAVA SEA
5.4S 108.8E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.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	.4	.7	.6	.6	.4	.7	.0	.0	.0	.0	3.3	
	TOT %	.4	.7	.6	.6	.4	.7	.0	.0	.0	.0	3.3	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.3	.2	.3	.0	.0	.0	.0	.0	.7	
	TOT %	.0	.0	.3	.2	.3	.0	.0	.0	.0	.0	.7	
5<10	PCP	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0	.7	
	NO PCP	2.0	3.7	7.8	13.7	3.5	3.1	.2	.6	.0	.0	34.7	
	TOT %	2.0	3.7	8.2	14.1	3.5	3.1	.2	.6	.0	.0	35.4	
10+	PCP	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.7	
	NO PCP	2.8	7.3	21.3	20.2	5.1	.9	.7	.4	.0	1.1	59.8	
	TOT %	2.8	7.7	21.3	20.6	5.1	.9	.7	.4	.0	1.1	60.5	
	TOT OBS												271
	TOT PCT	5.2	12.1	30.4	35.4	9.2	4.8	.9	.9	.0	1.1	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.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	.3	.0	.0	.0	.0	.3	
	4-10	.3	.5	.4	.4	.3	.3	.0	.0	.0		2.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.5	.4	.4	.3	.5	.0	.0	.0	.0	2.3	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.2	.1	.2	.0	.0	.0	.0		.5	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.2	.1	.2	.0	.0	.0	.0	.0	.5	
5<10	0-3	.3	.4	.6	.1	.4	.8	.0	.0	.0	.3	2.9	
	4-10	1.2	1.6	4.0	7.6	2.6	1.3	.1	.4	.0		18.7	
	11-21	.1	.9	1.4	3.5	.0	.3	.0	.0	.0		6.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	1.6	2.9	6.0	11.2	3.0	2.3	.1	.4	.0	.3	27.8	
10+	0-3	.5	1.4	1.1	.3	.4	.1	.3	.0	.0	2.3	6.5	
	4-10	1.0	6.6	19.5	13.6	2.8	.6	.3	.5	.0		44.9	
	11-21	.6	1.7	6.8	6.7	1.4	.4	.0	.0	.0		17.7	
	22+	.0	.0	.0	.3	.0	.0	.0	.0	.0		.3	
	TOT %	2.2	9.7	27.4	20.9	4.6	1.2	.5	.5	.0	2.3	69.4	
	TOT OBS												385
	TOT PCT	4.0	13.1	34.0	32.7	8.1	4.0	.6	.9	.0	2.6	100.0	

AUGUST

PERIOD: (PRIMARY) 1911-1972
(OVER-ALL) 1860-1972

AREA 0010 SOUTHWEST JAVA SEA
5.45 108.8E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00Z03	.0	.0	.0	4.0	.0	8.0	.0	.0	.0	.0	12.0	88.0	25
06Z09	.0	.0	4.2	4.2	.0	.0	.0	.0	.0	.0	8.3	91.7	24
12Z15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	26
18Z21	.0	.0	.0	5.9	5.9	5.9	.0	.0	.0	.0	17.6	82.4	17
TOT	0	0	1	3	1	3	0	0	0	0	8	84	92
PCT	.0	.0	1.1	3.3	1.1	3.3	.0	.0	.0	.0	8.7	91.3	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	.0	1.4	1.4	37.0	60.3	73
06Z09	.0	.0	3.6	.9	22.5	73.0	111
12Z15	.0	.0	3.6	.0	15.5	81.0	84
18Z21	.0	.0	3.1	.0	36.7	60.2	128
TOT	0	0	12	2	112	270	396
PCT	.0	.0	3.0	.5	28.3	68.2	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
00Z03	.0	.0	4.2	8.3	87.5	24
06Z09	.0	4.8	14.3	.0	85.7	21
12Z15	.0	.0	.0	.0	100.0	26
18Z21	.0	.0	6.3	12.5	81.3	16
TOT	0	1	5	4	78	87
PCT	.0	1.1	5.7	4.6	89.7	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	1.5	4.6	.5	.0	13	6.6
80/84	.0	.0	.0	.5	6.6	36.7	38.3	2.0	165	84.2
75/79	.0	.0	.0	.0	.0	3.1	5.1	1.0	18	9.2
TOTAL	0	0	0	1	16	87	86	6	196	100.0
PCT	.0	.0	.0	.5	8.2	44.4	43.9	3.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.5	1.3	2.3	1.4	.6	.0	.0	.0	.0	.5
80/84	4.1	9.8	25.[illegible]	32.3	6.0	3.6	1.3	1.3	.0	.5
75/79	.5	.3	1.7	4.0	1.0	1.3	.0	.0	.0	.5
PCT	5.1	11.4	29.3	37.6	7.7	4.8	1.3	1.3	.0	1.5

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00Z03	89	84	83	81	78	77	76	80.6	128
06Z09	92	89	87	82	80	78	76	82.9	242
12Z15	85	84	84	82	79	78	75	81.6	135
18Z21	86	85	83	81	77	75	74	80.5	273
TOT	92	88	85	81	78	76	74	81.4	778

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00Z03	.0	.0	5.0	42.5	45.0	7.5	81	40
06Z09	.0	.0	19.3	49.1	28.1	3.5	75	57
12Z15	.0	.0	14.3	35.7	47.6	2.4	78	42
18Z21	.0	1.5	1.5	43.6	50.0	1.5	80	68
TOT	0	1	20	91	88	7	78	207

PERIOD: (PRIMARY) 1911-1972
(OVER-ALL) 1860-1972

AREA 0010 SOUTHWEST JAVA SEA
5.4S 108.8E

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	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.4	1	.0	.4
4	.4	1.3	.9	.4	7	.0	3.1
3	.4	1.3	.4	.0	5	.0	2.2
2	..	8.4	1.8	.0	24	.0	10.7
1	1.3	12.0	.9	.0	32	.0	14.2
0	4.9	21.8	1.3	.0	63	.0	28.0
-1	6.2	8.4	.0	.0	33	.0	14.7
-2	8.0	9.3	.0	.0	39	.0	17.3
-3	2.7	.0	.0	.0	6	.0	2.7
-4	3.6	1.3	.0	.0	11	.0	4.9
-5	.9	.0	.0	.0	2	.0	.9
-6	.9	.0	.0	.0	2	.0	.9
TOTAL	67	144	12	2	225	0	225
PCT	29.8	64.0	5.3	.9	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	2.6	.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	.0	2.6	.0	.0	.0	2.6

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	2.6	.0	.0	.0	2.6
3-4	.0	2.6	.0	.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	2.6	2.6	.0	.0	.0	5.1

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	14.1	1.9	.0	.0	.0	16.0
3-4	.0	5.1	5.1	.0	.0	.0	10.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	2.6	.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	19.2	9.6	.0	.0	.0	28.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.2	.0	.0	.0	.0	3.2
1-2	.0	19.2	.6	.0	.0	.0	19.9
3-4	.0	2.6	15.4	.0	.0	.0	17.9
5-6	.0	.6	10.3	.0	.0	.0	12.8
7	.0	.0	.0	2.6	.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	27.6	26.3	2.6	.0	.0	56.4

PERIOD: (OVER-ALL) 1963-1972

AUGUST

AREA 0010 SOUTHWEST JAVA SEA
5.45 108.8E

TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.9	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	.0	.0	.0	2.6
3-4	.0	2.6	.0	.0	.0	.0	2.6	.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	4.5	.0	.0	.0	.0	4.5	.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	.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	22-39	34-47	48+	PCT	TOT OBS
<1	.0	5.1	.0	.0	.0	.0	5.1	
1-2	.0	33.3	7.7	.0	.0	.0	41.0	
3-4	.0	12.8	20.5	.0	.0	.0	33.3	
5-6	.0	2.6	10.3	.0	.0	.0	12.8	
7	.0	.0	5.1	2.6	.0	.0	7.7	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	53.8	43.6	2.6	.0	.0	100.0	39

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	6.7	25.3	22.7	8.0	5.3	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	53	3
6-7	.0	1.3	8.0	2.7	1.3	2.7	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	5
8-9	.0	.0	.0	1.3	.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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	8.0	1.3	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	1
TOTAL	11	21	23	9	5	5	1	0	0	0	0	0	0	0	0	0	0	0	0	75	3
PCT	14.7	28.0	30.7	12.0	6.7	6.7	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1905-1971
(OVER-ALL) 1857-1971

AREA 0010 SOUTHWEST JAVA SEA
5.4S 108.6E

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	8.0	.0	4.0		.0	88.0
NE	.9	.0	1.8	.0	.0	.0	.0	2.7	.0	3.5	3.5	.0	7.1		.0	83.2
E	1.2	.0	.8	.0	.0	.0	.0	2.0	1.6	1.6	.0	.0	12.1		.0	82.7
SE	2.4	1.6	.0	.0	.0	.0	.0	4.0	.0	4.8	1.6	.0	2.4		.0	88.8
S	2.2	6.5	.0	.0	.0	.0	.0	8.7	.0	.0	4.3	.0	6.5		.0	80.4
SW	9.3	14.0	.0	.0	.0	.0	.0	23.3	.0	11.6	18.6	.0	9.3		.0	46.5
W	24.2	.0	12.1	.0	.0	.0	.0	36.4	.0	45.5	6.1	.0	.0		.0	36.4
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	16.7	8.3	.0	.0		.0	75.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	16.7	.0	.0	.0	.0	16.7	.0	16.7	.0	.0	.0		.0	66.7
TOT PCT	2.7	1.8	1.4	.0	.0	.0	.0	5.9	.5	5.5	3.2	.0	6.4		.0	80.4
TOT OBS:	219															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER 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	.0	2.4	2.4	.0	.0	.0	.0	4.9	.0	.0	.0	.0	4.9		.0	90.2
06Z09	1.8	1.8	.0	.0	.0	.0	.0	3.6	.0	.0	1.8	.0	9.1		.0	85.5
12Z15	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.4	4.3	.0	4.3		.0	85.1
18Z21	6.3	2.5	2.5	.0	.0	.0	.0	11.3	1.3	11.3	5.0	.0	6.3		.0	70.0
TOT PCT	2.7	1.8	1.3	.0	.0	.0	.0	5.8	.4	5.4	3.1	.0	6.3		.0	80.7
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	.8	2.8	.4	.0	.0	.0		4.0	6.3	1.9	.0	.9	10.8	9.4	7.1	2.1	1.1
NE	1.1	8.9	2.7	.0	.0	.0		12.7	7.9	5.6	14.3	3.0	27.8	26.7	17.9	13.6	4.2
E	2.0	18.8	7.0	.1	.0	.0		27.9	8.6	22.5	28.6	30.2	34.9	32.3	35.7	25.5	21.6
SE	2.4	21.2	8.5	.2	.0	.0		32.3	8.7	44.7	42.9	49.1	14.6	15.8	10.7	28.2	37.1
S	1.0	7.2	2.1	.0	.0	.0		10.3	7.8	19.0	14.3	7.3	1.4	4.3	14.3	10.6	18.6
SW	.3	2.8	.7	.1	.0	.0		3.9	8.1	1.9	.0	4.7	.9	1.7	.0	5.1	8.0
W	.3	1.6	.3	.1	.0	.0		2.3	7.3	.9	.0	.9	1.9	1.3	7.1	4.8	3.4
NW	.6	1.3	.0	.0	.0	.0		2.0	5.0	.0	.0	.6	4.7	4.3	.0	1.1	2.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.6							4.6	.0	3.7	.0	3.2	2.8	4.3	7.1	9.2	3.8
TOT OBS	104	507	169	4	0	0	784		7.9	108	7	158	106	117	14	142	132
TOT PCT	13.3	64.7	21.6	.5	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.4	1.6	.0	.0	.0		4.0	6.3	1.7	4.9	9.2	1.6
NE	5.7	6.7	.3	.0	.0		12.7	7.9	6.1	13.0	25.8	9.0
E	9.2	17.8	.9	.0	.0		27.9	8.6	22.8	32.1	32.6	23.6
SE	10.8	20.2	1.3	.0	.0		32.3	8.7	44.6	35.2	15.3	32.5
S	5.1	4.[illegible]	.5	.0	.0		10.3	7.8	18.7	4.9	5.3	14.4
SW	1.7	2.0	.1	.0	.0		3.9	8.1	1.7	3.2	1.5	6.5
W	1.4	.8	.1	.0	.0		2.3	7.3	.9	1.3	1.9	4.1
NW	1.5	.5	.0	.0	.0		2.0	5.0	.0	2.3	3.8	1.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.6						4.6	.0	3.5	3.0	4.6	6.6
TOT OBS	333	425	26	0	0	784		7.9	115	264	131	274
TOT PCT	42.5	54.2	3.3	.0	.0		100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1905-1971
(OVER-ALL) 1857-1971

AREA 0010 SOUTHWEST JAVA SEA
5.4S 108.6E

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	3.5	5.2	59.1	32.2	.0	.0	.0	8.7	100.0	115
06&09	3.0	10.2	65.5	20.5	.8	.0	.0	8.0	100.0	264
12&15	4.6	8.4	63.4	23.7	.0	.0	.0	7.8	100.0	131
18&21	6.6	8.8	66.8	17.2	.7	.0	.0	7.4	100.0	274
TOT	36	68	507	169	4	0	0	7.9		784
PCT	4.6	8.7	64.7	21.6	.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	.0	1.7	.0	.0		4.0
NE	3.4	.0	3.4	.4		3.7
E	5.9	11.4	9.7	3.0		4.1
SE	11.4	8.9	16.1	3.4		4.2
S	4.7	1.7	1.3	.0		2.4
SW	3.4	.0	.4	.0		1.2
W	.0	.0	1.3	.0		7.0
NW	1.7	.0	.0	.0		1.0
VAR	.0	.0	.0	.0		.0
CALM	3.4	.0	3.4	.0		2.7
TOT OBS	20	14	21	4	59	3.7
TOT PCT	33.9	23.7	35.6	6.8	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	1.7	
NE	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	6.8	
E	.0	.0	.0	.0	5.5	.0	1.3	.0	.0	.0	23.3	
SE	.0	.0	.0	1.7	2.5	.0	.4	.0	.0	1.7	33.5	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.6	
SW	.0	.0	.0	.0	.4	.0	.0	.0		.0	3.4	
W	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	5.1	
TOT OBS	0	0	0	2	6	0	1	0	0	1	49	59
TOT PCT	.0	.0	.0	3.4	10.2	.0	1.7	.0	.0	1.7	83.1	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	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
= OR >5000	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
= OR >3500	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
= OR >2000	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
= OR >1000	13.1	13.1	14.8	14.8	14.8	14.8	14.8	14.8
= OR >600	16.4	16.4	18.0	18.0	18.0	18.0	18.0	18.0
= OR >300	16.4	16.4	18.0	18.0	18.0	18.0	18.0	18.0
= OR >150	16.4	16.4	18.0	18.0	18.0	18.0	18.0	18.0
= OR > 0	16.4	16.4	18.0	18.0	18.0	18.0	18.0	18.0
TOTAL	10	10	11	11	11	11	11	11

TOTAL NUMBER OF OBS: 61 PCT FREQ NH <5/8: 82.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
22.2	14.7	26.4	9.7	8.3	6.9	2.8	4.2	2.8	.0	72

SEPTEMBER

PERIOD: (PRIMARY) 1905-1971
(OVER-ALL) 1857-1971

AREA 0010 SOUTHWEST JAVA SEA
5.4S 108.6E

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	.1	.3	.5	.0	.0	.2	.2	.0	.0	1.4	
	TOT %	.0	.1	.3	.5	.0	.0	.2	.2	.0	.0	1.4	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	NO PCP	.2	.9	1.6	.2	.7	.0	.0	.0	.0	.0	3.7	
	TOT %	.2	.9	1.6	.2	.7	.0	.0	.0	.0	.0	3.7	
	PCP	.0	.1	.3	.0	.0	.0	.5	.0	.0	.0	.9	
2<5	NO PCP	.0	.0	.0	.0	.9	.0	.0	.5	.0	.0	1.4	
	TOT %	.0	.1	.3	.0	.9	.0	.5	.5	.0	.0	2.3	
	PCP	.0	.2	.2	1.1	.9	1.1	.9	.0	.0	.5	5.0	
5<10	NO PCP	2.5	4.1	6.6	7.4	2.9	2.7	.9	1.6	.0	.9	29.7	
	TOT %	2.5	4.3	6.8	8.6	3.8	3.9	1.8	1.6	.0	1.4	34.7	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10+	NO PCP	3.0	7.4	19.2	19.2	5.1	1.0	1.3	.5	.0	1.4	58.0	
	TOT %	3.0	7.4	19.2	19.2	5.1	1.0	1.3	.5	.0	1.4	58.0	
	TOT OBS												219
	TOT PCT	5.7	12.9	28.3	26.4	10.5	4.9	3.8	2.7	.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
	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	.1	.2	.0	.0	.0	.2	.2	.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 %	.0	.1	.2	.3	.0	.0	.2	.2	.0	.0	.9	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.2	.6	.5	.2	.5	.0	.0	.0	.0		1.8	
	11-21	.0	.0	.6	.0	.0	.0	.0	.0	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.6	1.1	.2	.5	.0	.0	.0	.0	.0	2.4	
	0-3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3	
2<5	4-10	.0	.0	.0	.0	.0	.0	.3	.3	.0		.6	
	11-21	.0	.1	.2	.0	.3	.0	.0	.0	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.2	.0	.6	.0	.3	.3	.0	.0	1.5	
	0-3	.0	.0	.2	.2	.2	.2	.3	.6	.0	.9	2.4	
5<10	4-10	1.8	2.7	2.6	3.8	1.4	1.7	.9	.5	.0		15.4	
	11-21	.2	.2	2.1	2.1	1.1	.8	.0	.0	.0		6.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	2.0	2.9	4.8	6.1	2.6	2.6	1.2	1.1	.0	.9	24.1	
	0-3	1.4	1.1	1.8	1.2	.9	.3	.0	.6	.0	3.6	10.8	
10+	4-10	1.1	4.9	15.4	15.8	6.0	1.0	.7	.6	.0		45.5	
	11-21	.3	2.9	3.7	6.6	.7	.3	.0	.0	.0		14.5	
	22+	.0	.0	.0	.0	.0	.0	.3	.0	.0		.3	
	TOT %	2.7	8.8	20.9	23.6	7.6	1.6	1.0	1.2	.0	3.6	71.1	
	TOT OBS												332
	TOT PCT	4.8	12.4	27.3	30.2	11.3	4.1	2.6	2.7	.0	4.5	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1905-1971
(OVER-ALL) 1857-1971

AREA 0010 SOUTHWEST JAVA SEA
5.4S 108.6E

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
00Z03	.0	.0	.0	4.8	14.3	.0	.0	.0	.0	.0	19.0	81.0	21
06Z09	.0	.0	.0	.0	5.9	.0	5.9	.0	.0	.0	11.8	88.2	17
12Z15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	15
18Z21	.0	.0	.0	5.6	11.1	.0	.0	.0	.0	11.1	27.8	72.2	18
TOT	0	0	0	2	6	0	1	0	0	2	11	60	71
PCT	.0	.0	.0	2.8	8.5	.0	1.4	.0	.0	2.8	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	.0	.0	3.7	.0	20.4	75.9	54
06Z09	.0	.0	2.2	2.2	18.9	76.7	90
12Z15	.0	3.0	3.0	.0	14.9	79.1	67
18Z21	.0	.8	1.6	2.4	34.4	60.8	125
TOT	0	3	8	5	81	239	336
PCT	.0	.9	2.4	1.5	24.1	71.1	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	5.6	16.7	77.8	18
06Z09	.0	.0	6.7	6.7	86.7	15
12Z15	.0	.0	.0	.0	100.0	13
18Z21	.0	.0	6.7	26.7	66.7	15
TOT	0	0	3	8	50	61
PCT	.0	.0	4.9	13.1	82.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.7	1.4	.0	.0	.0	3	2.0
85/89	.0	.0	.0	.7	2.7	.7	.7	.0	7	4.8
80/84	.0	.0	.0	.0	5.4	31.3	31.3	7.5	111	75.5
75/79	.0	.0	.0	.0	.7	6.1	6.8	3.4	25	17.0
70/74	.0	.0	.0	.0	.0	.0	.0	.7	1	.7
TOTAL	0	0	0	2	15	56	57	17	147	100.0
PCT	.0	.0	.0	1.4	10.2	38.1	38.8	11.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	1.9	.2	.0	.0	.0	.0	.0	.0
1.0	.3	.7	2.0	.0	.0	.0	.7	.0	.0
4.1	12.6	18.9	21.8	6.6	3.9	1.9	3.1	.0	2.7
.0	.2	3.1	5.6	3.4	2.0	1.7	.3	.0	.7
.0	.0	.0	.0	.7	.0	.0	.0	.0	.0
5.1	13.1	24.5	29.6	10.7	6.0	3.6	4.1	.0	3.4

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00Z03	90	86	84	81	78	73	73	81.2	111
06Z09	90	89	87	83	80	78	77	83.5	247
12Z15	86	85	84	82	80	79	79	81.9	128
18Z21	85	84	83	81	77	76	74	80.6	270
TOT	90	88	86	82	78	76	73	81.9	756

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00Z03	.0	3.6	3.6	42.9	39.3	10.7	79	28
06Z09	.0	.0	31.4	45.7	20.0	2.9	74	35
12Z15	.0	.0	10.0	50.0	30.0	10.0	79	30
18Z21	.0	1.7	1.7	25.9	53.4	17.2	83	58
TOT	0	2	16	58	58	17	79	151

SEPTEMBER

PERIOD: (PRIMARY) 1905-1971
(OVER-ALL) 1857-1971

AREA 0010 SOUTHWEST JAVA SEA
5.4S 108.6E

TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.6	1.1	3	.0	1.7
6	.0	.0	.0	.0	.6	1	.0	.6
5	.0	.0	.6	2.3	.0	5	.0	2.9
4	.0	.0	1.1	.6	.6	4	.0	2.3
3	.0	.0	.6	.0	.0	1	.0	.6
2	.0	.0	9.7	1.7	.0	20	.0	11.4
1	.0	.0	7.4	1.1	.0	15	.6	8.0
0	.0	2.3	26.3	.0	.0	50	.0	28.6
-1	.0	3.4	10.3	.0	.0	24	.0	13.7
-2	.0	5.1	10.3	.0	.0	27	.0	15.4
-3	.0	4.6	2.9	.0	.0	13	.6	6.9
-4	.0	2.9	1.1	.0	.0	7	.6	3.4
-5	.6	1.1	.0	.0	.0	3	.0	1.7
-6	.0	.0	.6	.0	.0	1	.0	.6
-9/-10	.6	.0	.0	.0	.0	1	.0	.6
TOTAL	2		124		4		3	172
		34		11		175		
PCT	1.1	19.4	70.9	6.3	2.3	100.0	1.7	98.3

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	.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	.0	3.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.8	.0	.0	.0	.8
5-6	.0	.0	3.0	.0	.0	.0	3.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	0	3.0	3.8	.0	.0	.0	6.8

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	13.6	2.3	.0	.0	.0	15.9
3-4	.0	.0	5.3	.0	.0	.0	5.3
5-6	.0	2.3	2.3	.0	.0	.0	4.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	18.2	9.8	.0	.0	.0	28.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	3.0	3.8	.0	.0	.0	.0	6.8
1-2	.0	10.6	7.6	.0	.0	.0	18.2
3-4	.0	3.0	9.1	.0	.0	.0	12.1
5-6	.0	.8	6.8	.0	.0	.0	7.6
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	3.0	18.2	23.5	.0	.0	.0	44.7

PERIOD: (OVER-ALL) 1963-1971

SEPTEMBER

TABLE 18 (CONT)

AREA 0010 SOUTHWEST JAVA SEA
5.4S 108.6E

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	3.0	.0	.0	.0	.0	.0	3.0	3.0	.0	.0	.0	.0	.0	3.0
1-2	.0	3.0	2.3	.0	.0	.0	5.3	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.0	3.0	2.3	.0	.0	.0	8.3	3.0	.0	.0	.0	.0	.0	3.0

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.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	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	20.0	11.4	.0	.0	.0	.0	31.4	
1-2	.0	25.7	11.4	.0	.0	.0	37.1	
3-4	.0	2.9	14.3	.0	.0	.0	17.1	
5-6	.0	2.9	11.4	.0	.0	.0	14.3	
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	20.0	42.9	37.1	.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	6.8	39.0	18.6	3.4	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42	2
6-7	.0	3.4	5.1	3.4	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	4
8-9	.0	.0	.0	1.7	.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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	10.2	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	1
TOTAL	10	25	16	5	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	59	2
PCT	16.9	42.4	27.1	8.5	3.4	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1912-1972
(OVER-ALL) 1857-1972

AREA 0010 SOUTHWEST JAVA SEA
5.5S 108.7E

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	5.3	.0	.0	.0	.0	.0	.0	5.3	.0	16.0	.0	.0	16.0		.0	68.0
NE	.0	.0	3.8	.0	.0	.0	.0	3.8	.0	7.5	1.9	.0	9.4		.0	77.4
E	.0	.0	.0	.0	.0	.0	.0	.0	1.7	4.6	.8	.0	6.8		.0	86.1
SE	7.7	1.9	.0	.0	.0	.0	.0	9.6	.0	8.1	5.7	.0	1.0		.0	79.4
S	.0	7.0	.0	.0	.0	.0	.0	7.0	.0	.0	3.5	.0	3.5		.0	86.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	.0	16.7		.0	80.6
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	.0	8.1		.0	89.2
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5		.0	96.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	11.1	11.1	.0	.0	.0	.0	.0	22.2	.0	.0	.0	.0	11.1		.0	66.7
TOT PCT	2.4	1.6	.4	.0	.0	.0	.0	4.5	.4	4.9	2.4	.0	6.9		.0	82.0
TOT OBS:	245															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER 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	.0	2.0	.0	.0	.0	.0	.0	2.0	.0	.0	3.9	.0	11.8		.0	82.4
06Z09	3.6	2.4	1.2	.0	.0	.0	.0	7.1	.0	1.2	.0	.0	11.9		.0	81.0
12Z15	3.5	.0	.0	.0	.0	.0	.0	3.5	.0	3.5	3.5	.0	5.3		.0	84.2
18Z21	4.4	3.3	.0	.0	.0	.0	.0	7.8	1.1	12.2	2.2	.0	2.2		.0	77.8
TOT PCT	3.2	2.1	.4	.0	.0	.0	.0	5.7	.4	5.0	2.1	.0	7.4		.0	80.9
TOT OBS:	282															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.3	3.1	.6	.1	.0	.0		5.1	6.2	3.2	.0	.4	15.6	7.1	4.5	5.2	3.4
NE	2.1	7.5	.8	.1	.0	.0		10.4	6.8	4.8	5.6	9.8	20.6	15.0	13.6	10.1	4.4
E	2.3	15.2	4.1	.1	.0	.0		21.7	7.9	10.9	38.9	25.9	26.9	25.2	40.9	23.0	13.6
SE	3.3	14.6	4.8	.0	.0	.0		22.6	7.8	33.8	22.2	27.4	13.1	15.7	22.7	18.9	24.8
S	2.2	10.7	1.5	.0	.0	.0		14.5	6.8	21.3	22.2	9.8	2.5	9.5	.0	16.7	27.2
SW	1.7	7.2	.9	.0	.0	.0		9.8	6.3	16.0	.0	12.4	2.5	4.8	4.5	8.6	14.6
W	2.2	2.6	.2	.0	.0	.0		5.0	4.5	4.8	.0	4.1	5.6	4.8	4.5	5.4	5.8
NW	.9	4.1	.7	.1	.0	.0		5.7	7.0	2.1	11.1	4.9	11.9	8.3	9.1	5.9	1.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.1							5.1	.0	3.2	.0	5.3	1.3	9.5	.0	6.3	4.9
TOT OBS	136	420	88	2	0	0	646		6.7	94	9	133	80	105	11	111	103
TOT PCT	21.1	65.0	13.6	.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	3.6	1.4	.2	.0	.0		5.1	5.2	2.9	6.1	6.9	4.3
NE	5.4	4.8	.2	.0	.0		10.4	6.8	4.9	13.8	14.9	7.4
E	10.2	10.0	1.5	.0	.0		21.7	7.9	13.3	26.3	26.7	18.5
SE	10.3	11.3	1.1	.0	.0		22.6	7.8	32.8	22.1	16.4	21.7
S	7.8	6.5	.2	.0	.0		14.5	6.8	21.4	7.0	6.6	21.7
SW	6.5	2.9	.4	.0	.0		9.8	6.3	14.6	8.7	4.7	11.4
W	4.0	.9	.0	.0	.0		5.0	4.5	4.4	4.7	4.7	5.6
NW	3.6	1.7	.4	.0	.0		5.7	7.0	2.9	7.5	8.4	3.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.1						5.1	.0	2.9	3.8	8.6	5.6
TOT OBS	365	256	25	0	0	646		6.7	102	213	116	214
TOT PCT	56.5	39.6	3.9	.0	.0		100.0		100.0	100.0	100.0	100.0

OCTOBER

PERIOD: (PRIMARY) 1912-1972
(OVER-ALL) 1857-1972

AREA 0010 SOUTHWEST JAVA SEA
5.5S 108.7E

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	2.9	14.6	66.0	15.5	1.0	.0	.0	7.3	100.0	103
06&09	3.8	12.7	70.9	12.2	.5	.0	.0	6.9	100.0	213
12&15	8.6	19.0	58.6	13.8	.0	.0	.0	6.5	100.0	116
18&21	5.6	18.2	62.1	14.0	.0	.0	.0	6.5	100.0	214
TOT	33	103	420	88	2	0	0	6.7		646
PCT	5.1	15.9	65.0	13.6	.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	1.1	1.5	.0	1.1		4.0
NE	4.9	.0	1.5	4.5		4.5
E	6.1	14.0	4.9	1.5		3.6
SE	7.6	12.1	12.1	4.5		4.6
S	1.5	2.7	4.2	.0		4.0
SW	1.5	.0	.0	.0		2.0
W	.0	1.5	.0	.0		4.0
NW	.0	1.5	3.0	.4		5.5
VAR	.0	.0	.0	.0		.0
CALM	1.5	1.5	1.5	1.5		4.5
TOT OBS	16	23	18	9	66	4.2
TOT PCT	24.2	34.8	27.3	13.6	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 499	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	1.1	.0	.0	.0	.0	2.7	
NE	.0	.0	.0	1.5	1.5	.0	.0	.0	.0	.0	8.0	
E	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	25.4	
SE	.0	.0	.0	1.9	3.0	1.5	1.5	.0	.0	.0	28.4	
S	.0	.0	.0	.0	1.5	.0	.0	.0	1.5	.0	5.3	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	
NW	.0	.0	.0	.0	1.5	.4	.0	.0	.0	.0	3.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	1.5	1.5	.0	.0	.0	.0	3.0	
TOT OBS	0	0	0	3	6	3	1	0	1	0	52	66
TOT PCT	.0	.0	.0	4.5	9.1	4.5	1.5	.0	1.5	.0	78.8	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.4	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	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
* OR >2000	5.6	7.0	7.0	7.0	7.0	7.0	7.0	7.0
* OR >1000	14.1	15.5	15.5	15.5	15.5	15.5	15.5	15.5
* OR >600	15.5	19.7	19.7	19.7	19.7	19.7	19.7	19.7
* OR >300	15.5	19.7	19.7	19.7	19.7	19.7	19.7	19.7
* OR >150	15.5	19.7	19.7	19.7	19.7	19.7	19.7	19.7
* OR > 0	15.5	19.7	19.7	19.7	19.7	19.7	19.7	19.7
TOTAL	11	14	14	14	14	14	14	14

TOTAL NUMBER OF OBS: 71 PCT FREQ NH <5/8: 80.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
13.4	15.9	19.5	19.5	14.6	6.1	2.4	2.4	6.1	.0	82

OCTOBER

PERIOD: (PRIMARY) 1912-1972
(OVER-ALL) 1857-1972

AREA 0010 SOUTHWEST JAVA SEA
5.5S 108.7E

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	.4	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	NO PCP	.8	.0	1.2	.2	.6	1.2	.6	.2	.0	.4	5.3	
	TOT %	.8	.0	1.2	.2	.6	1.2	.6	.2	.0	.4	5.3	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	NO PCP	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.4	
	PCP	.4	.4	.0	1.6	.4	.0	.0	.0	.0	.8	3.7	
5<10	NO PCP	3.6	5.9	8.6	6.3	5.3	4.5	5.1	2.8	.0	1.2	43.3	
	TOT %	4.0	6.3	8.6	8.0	5.7	4.5	5.1	2.8	.0	2.0	46.9	
	PCP	.0	.0	.0	.4	.4	.0	.0	.0	.0	.0	.8	
10+	NO PCP	2.9	4.5	14.0	12.3	4.9	1.6	1.8	2.9	.0	1.2	46.1	
	TOT %	2.9	4.5	14.0	12.8	5.3	1.6	1.8	2.9	.0	1.2	46.9	
	TOT OBS												245
	TOT PCT	7.7	10.8	24.2	21.3	11.6	7.3	7.6	5.8	.0	3.7	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.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	.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	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	
1<2	4-10	.3	.0	1.0	.0	.3	.3	.5	.2	.0		2.6	
	11-21	.3	.0	.0	.2	.2	.6	.0	.0	.0		1.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.6	.0	1.0	.2	.5	1.0	.5	.2	.0	.3	4.2	
	0-3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	.6	
2<5	4-10	.0	.0	.5	.5	.3	.0	.0	.0	.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 %	.0	.0	.5	.5	.6	.0	.0	.0	.0	.3	1.9	
	0-3	1.0	.8	.8	1.3	.6	.6	2.2	.3	.0	1.6	9.3	
5<10	4-10	1.5	3.4	3.5	4.0	3.2	2.7	1.4	1.7	.0		21.5	
	11-21	1.0	.8	2.4	1.0	.6	.2	.3	.2	.0		6.4	
	22+	.0	.0	.0	.0	.0	.3	.0	.0	.0		.0	
	TOT %	3.4	5.0	6.7	6.3	4.5	3.5	4.0	2.2	.0	1.6	37.2	
	0-3	1.0	.8	1.6	1.[illegible]	1.3	.5	.8	1.0	.0	2.9	10.9	
10+	4-10	1.8	5.4	11.1	8.[illegible]	5.1	2.9	1.0	1.6	.0		37.5	
	11-21	.0	.3	3.3	3.9	.5	.0	.0	.0	.0		8.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	2.7	6.6	15.9	13.7	6.9	3.4	1.8	2.6	.0	2.9	56.4	
	TOT OBS												312
	TOT PCT	6.8	11.5	24.1	20.9	12.3	7.9	6.3	4.9	.0	5.1	100.0	

OCTOBER

PERIOD: (PRIMARY) 1912-1972
(OVER-ALL) 1857-1972

AREA 0010 SOUTHWEST JAVA SEA
5.5S 108.7E

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
00603	.0	.0	.0	.0	.0	.0	.0	.0	5.9	.0	5.9	94.1	17
06609	.0	.0	.0	3.7	7.4	3.7	3.7	.0	.0	.0	18.5	81.5	27
12615	.0	.0	.0	6.3	.0	6.3	.0	.0	.0	.0	12.5	87.5	16
18621	.0	.0	.0	4.5	18.2	4.5	.0	.0	.0	.0	27.3	72.7	22
TOT	0	0	0	3	6	3	1	0	1	0	14	68	82
PCT	.0	.0	.0	3.7	7.3	3.7	1.2	.0	1.2	.0	17.1	82.9	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
00603	.0	1.7	8.5	3.4	32.2	54.2	59
06609	.0	.0	6.9	.0	35.6	57.4	101
12615	.0	.0	4.2	1.4	43.7	50.7	71
18621	.0	.0	1.7	2.5	46.6	49.2	118
TOT	0	1	17	6	141	184	349
PCT	.0	.3	4.9	1.7	40.4	52.7	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00603	.0	.0	.0	6.3	93.8	16
06609	.0	.0	4.3	17.4	78.3	23
12615	.0	.0	7.1	7.1	85.7	14
18621	.0	.0	5.6	27.8	66.7	18
TOT	0	0	3	11	57	71
PCT	.0	.0	4.2	15.5	80.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	1.6	.5	.0	.0	.0	4	2.1
85/89	.0	.0	.0	.0	4.9	5.3	3.7	.0	30	15.9
80/84	.0	.0	.0	.0	5.8	31.2	35.4	6.3	149	78.8
75/79	.0	.0	.0	.0	.0	.0	1.6	1.6	6	3.2
TOTAL	0	0	0	3	25	69	77	15	189	100.0
PCT	.0	.0	.0	1.6	13.2	36.5	40.7	7.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	1.6	.5	.0	.0	.0	.0	.0	.0
	1.9	2.4	4.2	1.9	.0	2.1	.3	3.2	.0	.0
	4.6	6.5	16.7	19.3	11.6	6.3	7.9	2.1	.0	3.7
	.9	.0	.0	1.1	.5	.0	.0	.1	.0	.5
	7.4	8.9	22.5	22.8	12.2	8.5	8.2	5.4	.0	4.2

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00603	86	85	84	82	79	78	78	82.0	107
06609	94	92	88	84	81	79	79	84.5	202
12615	85	84	84	83	79	75	75	82.7	114
18621	87	85	84	82	79	76	75	81.6	220
TOT	94	89	86	83	79	77	75	82.7	643

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	.0	5.3	50.0	36.8	7.9	80	38
06609	.0	4.5	28.4	35.8	29.9	1.5	74	67
12615	.0	.0	6.7	37.8	44.4	11.1	80	45
18621	.0	.0	4.0	29.3	56.0	10.7	82	75
TOT	0	3	27	82	96	17	79	225

OCTOBER

PERIOD: (PRIMARY) 1912-1972
(OVER-ALL) 1857-1972

AREA 0010 SOUTHWEST JAVA SEA
5.5S 108.7E

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	89 92	>92	TOT	W FOG	WO FOG
7/8	.0	.0	1.0	.0	.0	.5	3	.0	1.5
6	.0	.0	.0	.5	.0	.0	1	.0	.5
5	.0	.5	.0	1.0	1.0	.0	5	.0	2.5
4	.0	.0	2.0	1.0	.0	.0	6	.0	3.0
3	.0	.0	1.5	2.0	.0	.0	7	.0	3.5
2	.0	.0	7.1	3.5	.0	.0	21	.0	10.6
1	.0	.5	6.6	1.0	.0	.0	16	.0	8.1
0	.5	.5	18.2	.5	.0	.0	39	.5	19.2
-1	.0	1.5	14.1	2.0	.0	.0	35	1.0	16.7
-2	.0	2.5	14.6	.0	.0	.0	34	.5	16.7
-3	.0	2.0	4.0	.0	.0	.0	12	.0	6.1
-4	.0	2.0	3.5	1.0	.0	.0	13	.0	6.6
-5	.0	.0	.5	.0	.0	.0	1	.0	.5
-6	.0	1.0	.5	.0	.0	.0	3	.0	1.5
-7/-8	.0	.0	1.0	.0	.0	.0	2	.0	1.0
TOTAL	1		148		2			4	194
		21		25		1	198		
PCT	.5	10.6	74.7	12.6	1.0	.5	100.0	2.0	98.0

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	3.1	2.3	.0	.0	.0	.0	5.5
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	3.1	2.3	.0	.0	.0	.0	5.5

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	3.1	.0	.0	.0	.0	3.1
3-4	.0	3.1	.0	.0	.0	.0	3.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.3	.0	.0	.0	.0	6.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	5.5	.0	.0	.0	.0	5.5
1-2	.0	13.3	.0	.0	.0	.0	13.3
3-4	.0	.0	11.7	.0	.0	.0	11.7
5-6	.0	.0	6.3	.0	.0	.0	6.3
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	18.8	18.0	.0	.0	.0	36.7

SE

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	3.1	9.4	3.1	.0	.0	.0	15.6
3-4	.0	3.1	13.3	.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	3.1	.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	3.1	16.4	19.5	.0	.0	.0	39.1

PERIOD: (OVER-ALL) 1963-1972

OCTOBER

TABLE 18 (CONT)

AREA 0010 SOUTHWEST JAVA SEA
5.5S 108.7E

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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.3	.0	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.3	.0	.0	.0	.0	2.3	.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	.8	.0	.0	.0	.0	.8	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	3.1	.0	.0	.0	.0	3.1	
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	3.9	.0	.0	.0	.0	3.9	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	12.1	12.1	.0	.0	.0	.0	24.2	
1-2	3.0	30.3	3.0	.0	.0	.0	36.4	
3-4	.0	6.1	24.2	.0	.0	.0	30.3	
5-6	.0	.0	6.1	.0	.0	.0	6.1	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	3.0	.0	.0	.0	3.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	15.2	48.5	36.4	.0	.0	.0	100.0	33

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	12.1	22.4	19.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	2
6-7	.0	.0	6.9	5.2	3.4	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
10-11	.0	1.7	1.7	.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	15.5	5.2	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	1
TOTAL	16	17	16	6	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	58	2
PCT	27.6	29.3	27.6	10.3	3.4	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1913-1971
(OVER-ALL) 1857-1971

AREA 0010 SOUTHWEST JAVA SEA
5.5S 108.7E

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 DUST BLWG SNOW	NO SIG WEA
N	8.2	3.1	2.0	.0	.0	.0	.0	13.3	4.1	9.2	12.2	.0	2.0	.0	63.3
NE	.0	6.9	.0	.0	.0	.0	.0	6.9	.0	12.6	.0	.0	4.6	.0	75.9
E	2.0	2.0	.0	.0	.0	.0	.0	4.0	.0	9.9	2.0	.0	4.0	.0	80.2
SE	8.5	4.8	.0	.0	.0	.0	.0	13.3	4.8	8.5	3.6	.0	1.2	.0	72.1
S	5.3	10.5	.0	.0	.0	.0	.0	15.8	5.3	13.2	.0	.0	.0	.0	68.4
SW	8.4	8.4	.0	.0	.0	.0	.0	16.8	8.4	16.8	4.2	.0	.0	.0	62.1
W	1.7	3.4	3.4	.0	.0	.0	.0	8.4	.0	15.1	.0	.0	3.4	.0	73.1
NW	11.4	.8	1.6	.0	.0	.0	.0	13.8	.0	6.5	.0	.0	9.8	.0	69.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.5	.0	.0	.0	.0	.0	.0	10.5	.0	5.3	.0	.0	5.3	.0	78.9
TOT PCT	6.4	4.3	.9	.0	.0	.0	.0	11.5	2.6	10.6	2.6	.0	3.4	.0	71.5
TOT OBS:	235														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER 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	11.4	2.3	.0	.0	.0	.0	.0	13.6	.0	4.5	2.3	.0	.0	.0	81.8
06&09	2.7	6.8	1.4	.0	.0	.0	.0	11.0	2.7	.0	2.7	.0	6.8	.0	76.7
12&15	3.3	1.7	.0	.0	.0	.0	.0	5.0	1.7	20.0	1.7	.0	1.7	.0	73.3
18&21	11.4	5.1	1.3	.0	.0	.0	.0	17.7	3.8	17.7	3.8	.0	2.5	.0	59.5
TOT PCT	7.0	4.3	.8	.0	.0	.0	.0	12.1	2.3	10.9	2.7	.0	3.1	.0	71.5
TOT OBS:	256														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	5.5	.2	.0	.0	.0		7.6	5.5	4.0	.0	8.1	12.8	13.3	6.3	5.3	2.1
NE	1.4	5.3	.7	.2	.0	.0		7.5	6.9	2.8	.0	6.8	18.6	11.9	.0	2.3	5.2
E	2.2	8.9	1.1	.0	.0	.0		12.2	6.4	11.9	8.3	10.6	12.2	11.3	6.3	12.5	16.1
SE	3.5	11.9	2.2	.0	.0	.0		17.5	6.4	23.3	41.7	19.6	7.0	14.9	37.5	15.7	19.3
S	2.1	8.0	1.4	.0	.0	.0		11.5	6.6	15.3	8.3	11.3	7.6	5.4	12.5	13.4	16.7
SW	3.7	7.5	1.0	.0	.0	.0		12.3	6.0	19.3	8.3	13.3	5.8	8.6	15.6	14.8	11.5
W	3.1	8.1	2.7	.2	.0	.0		14.1	7.4	10.8	33.3	11.7	9.9	15.5	12.5	14.8	20.3
NW	1.9	6.1	.6	.0	.0	.0		8.6	6.0	2.3	.0	11.5	12.2	10.1	9.4	10.0	4.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.8							8.8	.0	10.2	.0	7.2	14.0	9.0	.0	11.1	4.2
TOT OBS	177	381	62	2	0	0	622		5.9	88	6	111	86	111	16	108	96
TOT PCT	28.5	61.3	10.0	.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	5.5	2.0	.1	.0	.0		7.6	5.5	3.7	10.2	12.4	3.8
NE	4.1	3.1	.2	.0	.0		7.5	6.9	2.7	11.9	10.4	3.7
E	7.1	5.1	.0	.0	.0		12.2	6.4	11.7	11.3	10.6	14.2
SE	11.5	5.5	.6	.0	.0		17.5	6.4	24.5	14.1	17.7	17.4
S	7.1	4.0	.4	.0	.0		11.5	6.6	14.9	9.6	6.3	15.0
SW	7.4	4.8	.1	.0	.0		12.3	6.0	18.6	14.0	9.4	13.2
W	7.0	6.7	.4	.0	.0		14.1	7.4	12.2	10.9	15.2	17.4
NW	5.1	3.4	.0	.0	.0		8.6	6.0	2.1	11.8	10.0	7.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	8.8						8.8	.0	9.6	10.2	7.9	7.8
TOT OBS	396	215	11	0	0	622		5.9	94	197	127	204
TOT PCT	63.7	34.6	1.8	.0	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1913-1971
(OVER-ALL) 1857-1971

AREA 0010 SOUTHWEST JAVA SEA
5.5S 108.7E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	9.6	23.4	59.6	6.4	1.1	.0	.0	5.6	100.0	94
06&09	10.2	20.8	59.9	9.1	.0	.0	.0	5.8	100.0	197
12&15	7.9	22.8	60.6	8.7	.0	.0	.0	5.6	100.0	127
18&21	7.8	14.7	63.7	13.2	.5	.0	.0	6.3	100.0	204
TOT	55	122	381	62	2	0	0	5.9		622
PCT	8.8	19.6	61.3	10.0	.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	1.5	1.5	2.9	5.1		6.2
NE	.0	.0	4.4	3.3		7.0
E	.0	1.5	5.5	.0		5.1
SE	4.4	2.9	3.3	2.9		4.3
S	2.9	2.9	2.9	1.5		4.1
SW	.0	.0	9.9	2.9		6.6
W	1.5	2.6	5.3	9.9		6.1
NW	1.5	1.8	2.9	2.2		5.3
VAR	.0	.0	.0	.0		.0
CALM	1.5	1.5	5.9	.0		5.1
TOT OBS	9	10	30	19	68	5.6
TOT PCT	13.2	14.7	44.1	27.9	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	8.5	
NE	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	
E	.0	.0	.0	.0	1.5	.0	1.5	.0	.0	.0	4.0	
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13.6	
S	.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0	8.8	
SW	.0	.0	.0	3.3	1.5	1.5	.0	.0	.0	.0	6.6	
W	.0	.0	.0	1.1	5.9	4.0	.0	.0	.0	.0	9.2	
NW	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	7.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0	7.4	
TOT OBS	1	0	0	5	8	4	1	0	0	0	49	68
TOT PCT	1.5	.0	.0	7.4	11.8	5.9	1.5	.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 >500YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
* OR >2000	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
* OR >1000	15.3	15.3	19.4	19.4	19.4	19.4	19.4	19.4
* OR >600	18.1	20.8	26.4	26.4	26.4	26.4	26.4	26.4
* OR >300	18.1	20.8	26.4	26.4	26.4	26.4	26.4	26.4
* OR >150	18.1	20.8	26.4	26.4	26.4	26.4	26.4	26.4
* OR > 0	18.1	20.8	27.8	27.8	27.8	27.8	27.8	27.8
TOTAL	13	15	20	20	20	20	20	20

TOTAL NUMBER OF OBS: 72 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
6.0	17.0	22.0	16.0	12.0	8.0	8.0	3.0	8.0	.0	100

PERIOD: (PRIMARY) 1913-1971
(OVER-ALL) 1857-1971

AREA 0010 SOUTHWEST JAVA SEA
5.5S 108.7E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.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	.2	.4	.9	.2	.0	.0	.4	1.3	.0	.4	3.8	
	TOT %	.2	.4	.9	.2	.0	.0	.4	1.3	.0	.4	3.8	
2<5	PCP	.4	.4	.0	.0	.0	.0	.6	.2	.0	.0	1.7	
	NO PCP	.0	.0	.0	.9	.0	.0	.9	.0	.0	.0	1.7	
	TOT %	.4	.4	.0	.9	.0	.0	1.5	.2	.0	.0	3.4	
5<10	PCP	1.0	.0	.2	1.9	1.3	1.3	.4	1.2	.0	.9	8.1	
	NO PCP	4.0	4.3	3.4	7.2	1.5	3.2	4.0	5.1	.0	3.4	36.2	
	TOT %	5.0	4.3	3.6	9.1	2.8	4.5	4.5	6.3	.0	4.3	44.3	
10+	PCP	.0	.2	.2	.4	.0	.4	.0	.4	.0	.0	1.7	
	NO PCP	4.8	3.9	6.1	6.9	5.3	5.2	6.3	4.9	.0	3.4	46.8	
	TOT %	4.8	4.1	6.3	7.3	5.3	5.6	6.3	5.3	.0	3.4	48.5	
	TOT OBS												235
	TOT PCT	10.4	9.3	10.7	17.6	8.1	10.1	12.7	13.1	.0	8.1	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	.3	.3	
	4-10	.0	.2	.6	.2	.0	.0	.0	.6	.0		1.6	
	11-21	.2	.2	.0	.0	.0	.0	.3	.3	.0		1.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.3	.6	.2	.0	.0	.3	1.0	.0	.3	2.9	
2<5	0-3	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.6	
	4-10	.3	.3	.0	.0	.0	.0	.3	.3	.0		1.3	
	11-21	.0	.0	.0	.0	.0	.0	1.1	.2	.0		1.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.3	.0	.6	.0	.0	1.4	.5	.0	.0	3.2	
5<10	0-3	1.4	.3	.5	1.3	.8	.6	.3	.2	.0	3.2	8.6	
	4-10	2.5	1.9	1.9	5.3	1.6	2.9	2.7	4.2	.0		23.0	
	11-21	.0	.8	.5	.5	.2	.0	1.3	.3	.0		3.5	
	22+	.0	.3	.0	.0	.0	.0	.0	.0	.0		.3	
	TOT %	3.9	3.4	2.9	7.0	2.6	3.5	4.3	4.7	.0	3.2	35.5	
10+	0-3	1.0	1.3	.6	.6	1.1	2.2	1.1	1.9	.0	5.4	15.3	
	4-10	4.2	2.6	6.8	6.3	4.6	5.4	4.6	3.5	.0		38.0	
	11-21	.0	.5	1.1	1.0	1.1	.2	.8	.2	.0		4.8	
	22+	.0	.0	.0	.0	.0	.0	.3	.0	.0		.3	
	TOT %	5.2	4.4	8.5	7.9	6.9	7.7	6.8	5.6	.0	5.4	58.5	
	TOT OBS												313
	TOT PCT	9.6	8.4	12.1	15.7	9.4	11.3	12.9	11.7	.0	8.9	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1913-1971
(OVER-ALL) 1857-1971

AREA 0010 SOUTHWEST JAVA SEA
5.5S 108.7E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	5.0	.0	5.0	.0	.0	.0	.0	10.0	90.0	20
06&09	.0	.0	.0	3.4	13.8	6.9	3.4	.0	.0	.0	27.6	72.4	29
12&15	.0	.0	.0	3.8	15.4	3.8	3.8	.0	.0	.0	26.9	73.1	26
18&21	5.3	.0	.0	10.5	5.3	.0	.0	.0	.0	.0	21.1	78.9	19
TOT	1	0	0	5	9	4	2	0	0	0	21	73	94
PCT	1.1	.0	.0	5.3	9.6	4.3	2.1	.0	.0	.0	22.3	77.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	5.0	48.3	46.7	60
06&09	.0	.0	5.1	2.0	29.3	63.6	99
12&15	.0	.0	1.4	2.8	32.4	63.4	71
18&21	.0	.0	2.9	2.9	43.3	51.0	104
TOT	0	0	9	10	126	189	334
PCT	.0	.0	2.7	3.0	37.7	56.6	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	14.3	7.1	78.6	14
06&09	.0	.0	11.8	35.3	52.9	17
12&15	.0	0	12.5	12.5	75.0	24
18&21	5.9	5.9	17.6	5.9	76.5	17
TOT	1	1	10	11	51	72
PCT	1.4	1.4	13.9	15.3	70.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.6	.0	.0	.0	1	.6
85/89	.0	.0	.0	.0	2.4	7.3	3.0	.6	22	13.4
80/84	.0	.0	.0	.0	3.0	31.1	37.8	5.5	127	77.4
75/79	.0	.0	.0	.0	.0	.6	3.0	4.9	14	8.5
TOTAL	0	0	0	0	10	64	72	18	164	100.0
PCT	.0	.0	.0	.0	6.1	39.0	43.9	11.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0
	2.7	1.8	.6	1.5	.6	.2	1.4	4.0	.0	.6
	8.7	4.7	7.2	10.2	5.8	9.8	11.4	11.7	.0	7.9
	1.1	.0	.6	1.5	1.5	.3	.9	.8	.0	1.8
	12.5	6.6	8.4	13.9	7.9	10.2	13.7	16.5	.0	10.4

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	90	88	86	82	77	73	73	81.9	94
06&09	92	90	88	84	79	77	76	83.6	203
12&15	86	85	85	82	79	79	78	82.5	128
18&21	86	85	84	82	77	75	75	81.3	214
TOT	92	89	86	82	79	76	73	82.4	639

TABLE 16

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	3.0	27.3	57.6	12.1	82	33
06&09	.0	.0	14.8	51.9	31.5	1.9	76	54
12&15	.0	.0	.0	45.7	40.0	14.3	81	35
18&21	.0	.0	1.7	28.3	48.3	21.7	83	60
TOT	0	0	15	70	79	23	80	182

NOVEMBER

PERIOD: (PRIMARY) 1913-1971
(OVER-ALL) 1857-1971

AREA 0010 SOUTHWEST JAVA SEA
5.5S 108.7E

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	89 92	TOT	W FOG	WO FOG
5	.0	.0	.0	.0	.5	1	.0	.5
3	.0	.0	.0	2.5	.0	5	1.0	1.5
2	.0	.0	3.5	2.5	.0	12	.5	5.4
1	.0	.0	5.0	1.5	.0	13	.0	6.4
0	.0	1.0	14.4	2.5	.0	36	.5	17.3
-1	.0	1.0	17.3	1.0	.0	39	1.0	18.3
-2	.0	2.5	19.8	1.0	.0	47	.0	23.3
-3	.0	1.5	6.4	.5	.0	17	.0	8.4
-4	.0	4.0	[illegible]	[illegible]	.0	17	.0	8.4
-5	.0	2.5	1.0	.0	.0	7	.0	3.5
-6	.5	1.5	.0	.0	.0	4	.0	2.0
-7/-8	.5	1.0	.0	.0	.0	3	.0	1.5
-9/-10	.5	.0	.0	.0	.0	1	.0	.5
TOTAL	3	30	145	23	1	202	6	196
PCT	1.5	14.9	71.8	11.4	.5	100.0	3.0	97.0

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	13.6	.0	.0	.0	.0	13.6
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	13.6	.0	.0	.0	.0	13.6

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	4.5	.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	.0	.0	4.5	.0	.0	4.5

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	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	4.5	.0	.0	.0	.0	4.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	9.1	.0	.0	.0	.0	.0	9.1
1-2	.0	4.5	.0	.0	.0	.0	4.5
3-4	4.5	.0	.0	.0	.0	.0	4.5
5-6	.0	.0	4.5	.0	.0	.0	4.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	13.6	4.5	4.5	.0	.0	.0	22.7

PERIOD: (OVER-ALL) 1963-1971

NOVEMBER

TABLE 18 (CONT)

AREA 0010 SOUTHWEST JAVA SEA
5.5S 108.7E

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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	4.5	4.5	4.5	.0	.0	.0	13.6	9.1	5.7	.0	.0	.0	.0	14.8
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.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-	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.5	4.5	4.5	.0	.0	.0	13.6	9.1	5.7	.0	.0	.0	.0	14.8

	W							NW							
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	4.5	.0	.0	.0	.0	4.5	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	3.4	.0	.0	.0	.0	3.4	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	4.5	.0	.0	.0	4.5	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	8.0	4.5	.0	.0	.0	12.5	.0	.0	.0	.0	.0	.0	.0	86.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	21.7	4.3	.0	.0	.0	.0	26.1	
1-2	17.4	30.4	4.3	.0	.0	.0	52.2	
3-4	4.3	4.3	4.3	4.3	.0	.0	17.4	
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	43.5	39.1	13.0	4.3	.0	.0	100.0	23

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	21.7	23.3	21.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	40	2
6-7	.0	5.0	1.7	1.7	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	4
8-9	.0	.0	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	20.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	0
TOTAL	25	18	14	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	60	2
PCT	41.7	30.0	23.3	1.7	1.7	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1909-1971
(OVER-ALL) 1855-1971

AREA 0010 SOUTHWEST JAVA SEA
5.4S 108.7E

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	12.1	.0	.0	.0	.0	.0	.0	12.1	.0	12.1	12.1	.0	.0	.0	63.6
NE	23.5	.0	.0	.0	.0	.0	.0	23.5	.0	.0	11.8	.0	.0	.0	64.7
E	.0	.0	.0	.0	.0	.0	.0	.0	14.3	.0	.0	.0	.0	.0	85.7
SE	16.0	4.0	.0	.0	.0	.0	.0	20.0	.0	12.0	8.0	.0	.0	.0	72.0
S	30.0	13.3	.0	.0	.0	.0	.0	43.3	.0	20.0	.0	.0	.0	.0	50.0
SW	12.4	15.7	2.2	.0	.0	.0	.0	30.3	.0	15.7	.0	.0	.0	.0	60.7
W	5.1	7.1	2.0	.0	.0	.0	.0	14.1	4.7	9.8	.0	.0	.0	.0	71.4
NW	8.2	5.8	.6	.0	.0	.0	.0	14.6	.0	13.5	.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	10.1	6.9	1.1	.0	.0	.0	.0	18.1	2.1	12.2	1.6	.0	.0	.0	69.1
TOT OBS:	188														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	12.2	9.8	2.4	.0	.0	.0	.0	24.4	4.9	2.4	.0	.0	.0	.0	70.7
06609	10.0	1.7	1.7	.0	.0	.0	.0	13.3	1.7	1.7	3.3	.0	.0	.0	80.0
12615	8.7	2.2	.0	.0	.0	.0	.0	10.9	.0	23.9	.0	.0	.0	.0	69.6
18621	15.3	11.9	.0	.0	.0	.0	.0	27.1	1.7	18.6	1.7	.0	.0	.0	57.6
TOT PCT	11.7	6.3	1.0	.0	.0	.0	.0	18.9	1.9	11.7	1.5	.0	.0	.0	69.4
TOT OBS:	206														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.5	4.0	.7	.0	.0	.0		5.2	7.4	.6	.0	4.6	9.8	10.4	.0	4.4	1.3
NE	1.0	3.2	.2	.0	.0	.0		4.4	5.3	3.1	.0	4.6	6.6	5.0	.0	5.2	2.5
E	1.8	2.0	.0	.0	.0	.0		3.8	9	10.0	.0	4.2	1.6	2.0	.0	2.1	5.1
SE	1.1	3.3	.7	.0	.0	.0		5.1		8.5	.0	4.6	.0	2.0	21.4	6.3	8.9
S	1.5	4.6	.7	.0	.0	.0		6.7		10.0	.0	3.2	3.3	4.5	21.4	10.4	9.5
SW	1.7	9.2	2.9	.3	.0	.0		14.0	8.2	17.7	11.1	14.1	6.6	7.4	28.6	17.7	19.6
W	2.5	19.4	8.1	1.4	.7	.0		32.1	10.0	30.4	6.1	38.9	29.5	28.2	28.6	30.7	29.7
NW	.6	11.3	8.6	.8	*	.0		21.2	10.5	11.9	27.8	16.4	36.1	34.7	.0	14.8	15.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.4							7.4	.0	7.7	.0	9.3	6.6	5.9	.0	8.3	7.6
TOT OBS	95	300	114	13	4	0	526		8.1	65	9	108	61	101	7	96	79
TOT PCT	19.1	57.0	21.7	2.5	.8	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.4	2.7	.1	.0	.0		5.2	7.4	.7	6.5	9.7	3.0
NE	3.6	.8	.0	.0	.0		4.4	5.3	2.7	5.3	4.6	4.0
E	3.4	.4	.0	.0	.0		3.8	3.9	8.8	3.3	1.9	3.4
SE	3.2	1.6	.3	.0	.0		5.1	6.5	7.4	3.0	3.2	7.4
S	4.6	2.0	.2	.0	.0		6.7	6.1	8.8	3.3	5.6	10.0
SW	6.0	7.1	.8	.1	.0		14.0	8.2	16.9	11.4	8.8	18.6
W	12.9	13.8	4.2	1.2	.0		32.1	10.0	34.1	35.5	28.2	30.3
NW	6.2	11.8	3.0	.2	.0		21.2	10.5	13.9	23.5	32.4	15.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	7.4						7.4	.0	6.8	8.3	5.6	8.0
TOT OBS	262	211	45	8	0	526		8.1	74	169	108	175
TOT PCT	49.8	40.1	8.6	1.5	.0		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1909-1971
(OVER-ALL) 1855-1971

AREA 0010 SOUTHWEST JAVA SEA
5.4S 108.7E

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	6.8	12.2	63.5	17.6	.0	.0	.0	7.1	100.0	74
06&09	8.3	13.[illegible]	56.2	15.4	5.3	1.2	.0	8.1	100.0	169
12&15	5.6	6.5	56.5	29.6	.9	.9	.0	8.9	100.0	108
18&21	8.0	9.7	55.4	24.6	1.7	.6	.0	8.1	100.0	175
TOT	39	56	300	114	13	4	0	8.1		526
PCT	7.4	10.6	57.0	21.7	2.5	.8	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	3.4		8.0
NE	.0	.0	3.9	2.0		7.3
E	3.9	2.0	3.9	2.0		4.1
SE	.0	2.0	2.0	.0		5.0
S	.0	2.0	.0	2.0		6.0
SW	2.0	.0	3.9	.5		5.2
W	3.9	2.9	16.2	14.7		6.7
NW	2.0	8.8	1.5	6.9		5.0
VAR	.0	.0	.0	.0		.0
CALM	.0	3.9	.0	3.9		6.0
TOT OBS	6	11	16	18	51	5.7
TOT PCT	11.8	21.6	31.4	35.3	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	.0	.0	.0	.0	.0	.0	1.5	
NE	.0	.0	.0	3.9	.0	.0	.0	.0	.0	.0	2.0	
E	.0	.0	2.0	.0	.0	2.0	.0	.0	.0	.0	7.8	
SE	.0	.0	.0	.0	.0	.0	.0	2.0	.0	.0	2.0	
S	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	2.0	
SW	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	4.4	
W	.0	1.5	.0	2.9	3.9	1.0	.0	.0	.0	.0	28.4	
NW	.0	.9	.0	2.9	.0	1.0	.0	.0	.0	.0	14.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.8	
TOT OBS	0	1	2	7	2	2	0	1	0	0	36	51
TOT PCT	.0	2.0	3.9	13.7	3.9	3.9	.0	2.0	.0	.0	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 >500YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	1.9	1.9	1.9	1.9	1.9
* OR >3500	.0	.0	.0	1.9	1.9	1.9	1.9	1.9
* OR >2000	5.8	5.8	5.8	7.7	7.7	7.7	7.7	7.7
* OR >1000	9.6	9.6	9.6	11.5	11.5	11.5	11.5	11.5
* OR >600	21.2	23.1	23.1	25.0	25.0	25.0	25.0	25.0
* OR >300	23.1	26.9	26.9	28.8	28.8	28.8	28.8	28.8
* OR >150	23.1	28.8	28.8	30.8	30.8	30.8	30.8	30.8
* OR > 0	23.1	28.8	28.8	30.8	30.8	30.8	30.8	30.8
TOTAL	12	15	15	16	16	16	16	16

TOTAL NUMBER OF OBS: 52 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
3.2	15.9	15.9	22.2	14.3	7.9	6.3	6.3	7.9	.0	63

DECEMBER

PERIOD: (PRIMARY) 19[illegible] -1971
(OVER-ALL) 1[illegible] -1971

AREA 0010 SOUTHWEST JAVA SEA
5.45 108.7E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.5	
	TOT %	.0	.5	.0	.0	.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		.3	.3	.0	.0	.0	.0	.0	.5	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	1.1	.0	.5	.3	.0	.0	.0	1.6	
	TOT %	.0	.0	.0	1.1	.0	.5	.3	.0	.0	.0	1.6	
2<5	PCP	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.5	
	NO PCP	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.5	
	TOT %	.0	.0	.0	.3	.3	.5	.0	.0	.0	.0	1.1	
5<10	PCP	.5	.5	.0	.3	1.9	2.1	3.3	2.5	.0	.0	11.2	
	NO PCP	1.9	1.9	.3	2.4	1.3	3.7	11.7	8.8	.0	2.1	34.0	
	TOT %	2.4	2.4	.3	2.7	3.2	5.9	15.0	11.3	.0	2.1	45.2	
10+	PCP	.0	.5	.0	.5	1.1	1.6	1.5	.8	.0	.0	5.9	
	NO PCP	2.0	1.1	3.5	1.9	3.2	3.7	17.2	10.6	.0	2.1	45.2	
	TOT %	2.0	1.6	3.5	2.4	4.3	5.7	18.6	11.4	.0	2.1	51.1	
	TOT OBS												188
	TOT PCT	4.4	4.5	3.7	6.6	8.0	11.8	33.9	22.7	.0	4.3	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.4	.0	.0	.0	.0	.0	.0	.0		.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.4	.0	.0	.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	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.2	.2	.0	.0	.0	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.4	
1<2	0-3	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	
	4-10	.0	.0	.0	.4	.0	.2	.6	.0	.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 %	.0	.0	.0	.8	.0	.2	.6	.0	.0	.0	1.7	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.8	.2	1.0	.0		2.1	
	11-21	.0	.0	.0	.2	.2	.0	.0	.0	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.2	.2	.8	.2	1.0	.0	.0	2.5	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	1.7	
	4-10	1.9	1.9	.2	1.7	2.5	4.4	7.2	3.6	.0		23.3	
	11-21	.0	.0	.0	.4	.0	1.0	4.8	5.0	.0		11.3	
	22+	.0	.0	.0	.0	.0	.0	.2	.6	.0		.8	
	TOT %	1.9	1.9	.2	2.1	2.5	5.4	12.2	9.3	.0	1.7	37.1	
10+	0-3	.0	.4	.6	.6	1.3	1.0	.8	.2	.0	4.6	9.6	
	4-10	1.6	1.0	2.3	1.0	3.1	4.9	13.4	8.4	.0		35.8	
	11-21	.4	.4	.0	.6	.2	1.0	3.3	5.2	.0		11.3	
	22+	.0	.0	.0	.0	.0	.0	1.1	.1	.0		1.3	
	TOT %	2.0	1.9	2.9	2.3	4.6	7.0	18.8	14.0	.0	4.6	57.9	
	TOT OBS												240
	TOT PCT	3.9	4.2	3.1	5.6	7.5	13.4	31.8	24.3	.0	6.3	100.0	

DECEMBER

PERIOD: (PRIMARY) 1909-1971
(OVER-ALL) 1855-1971

AREA 0010 SOUTHWEST JAVA SEA
5.4S 108.7E

TABLE 10

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

JUR (GMT)	000 149	150 299	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	6.7	6.7	.0	6.7	.0	.0	.0	.0	20.0	80.0	15
06Z09	.0	4.8	.0	14.3	9.5	4.8	.0	4.8	.0	.0	38.1	61.9	21
12Z15	.0	.0	7.1	7.1	.0	7.1	.0	.0	.0	.0	21.4	78.6	14
18Z21	.0	.0	.0	18.2	.0	.0	.0	.0	.0	.0	18.2	81.8	11
TOT	0	1	2	7	2	3	0	1	0	0	16	45	61
PCT	.0	1.6	3.3	11.5	3.3	4.9	.0	1.6	.0	.0	26.2	73.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00Z03	.0	2.2	.0	2.2	45.7	50.0	46
06Z09	1.4	.0	2.7	2.7	31.5	61.6	73
12Z15	.0	.0	1.7	1.7	36.7	60.0	60
18Z21	.0	.0	1.3	2.5	48.1	48.1	79
TOT	1	1	4	6	104	142	258
PCT	.4	.4	1.6	2.3	40.3	55.0	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00Z03	.0	8.3	16.7	8.3	75.0	12
06Z09	.0	5.9	29.4	17.6	52.9	17
12Z15	.0	8.3	16.7	8.3	75.0	12
18Z21	.0	.0	18.2	.0	81.8	11
TOT	0	3	11	5	36	52
PCT	.0	5.8	21.2	9.6	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	.8	3.1	7.0	.8	.0	15	11.7
80/84	.0	.0	.0	.0	1.6	21.1	48.4	3.9	96	75.0
75/79	.0	.0	.0	.0	.0	.8	7.8	4.7	17	13.3
TOTAL	0	0	0	1	6	37	73	11	128	100.0
PCT	.0	.0	.0	.8	4.7	28.9	57.0	8.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	1.2	.8	.8	.0	.8	1.6	4.3	2.3	.0	.0
	4.1	3.9	2.7	6.3	5.1	9.2	21.3	17.8	.0	4.7
	1.2	1.2	.0	1.2	2.7	1.2	4.1	1.8	.0	.0
	6.4	5.9	3.5	7.4	8.6	11.9	29.7	21.9	.0	4.7

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00Z03	88	87	85	81	78	76	76	81.4	81
06Z09	91	90	88	83	79	78	77	83.5	166
12Z15	87	85	85	82	79	77	77	81.8	109
18Z21	85	84	84	81	78	74	74	81.1	180
TOT	91	88	86	82	78	76	74	82.0	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	28.0	48.0	24.0	85	25
06Z09	.0	4.8	9.5	42.9	35.7	7.1	78	42
12Z15	.0	.0	3.1	31.3	59.4	6.3	82	32
18Z21	.0	.0	2.2	13.3	71.1	13.3	84	45
TOT	0	2	6	41	78	17	82	144

DECEMBER

PERIOD: (PRIMARY) 1909-1971
(OVER-ALL) 1955-1971

AREA 0010 SOUTHWEST JAVA SEA
5.4S 108.7E

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	89 92	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.6	.6	2	.0	1.2
7/8	.0	.0	.0	.6	.0	1	.0	.6
5	.0	.0	.0	.6	.6	2	.0	1.2
4	.0	.0	.6	.0	.0	1	.0	.6
3	.0	.0	1.2	.6	.0	3	.0	1.9
2	.0	.0	7.4	1.9	.0	15	.0	9.3
1	.0	1.2	5.6	3.1	.0	16	.6	9.3
0	.0	1.2	10.5	1.9	.0	22	.0	13.6
-1	.0	1.2	16.7	.6	.0	30	.0	18.5
-2	.0	4.9	9.9	.0	.0	24	.0	14.8
-3	.0	1.9	4.9	.6	.0	12	.0	7.4
-4	.0	9.3	1.9	.0	.0	18	.0	11.1
-5	.0	4.3	1.9	.0	.0	10	.0	6.2
-6	.0	3.1	.0	.0	.0	5	.0	3.1
-7/-8	.6	.0	.0	.0	.0	1	.0	.6
TOTAL	1	44	98	17	2	162	1	161
PCT	.6	27.2	60.5	10.5	1.2	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	3.8	.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	.0	3.8	.0	.0	.0	.0	3.8

NE

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	5.0	.0	.0	.0	.0	5.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	5.0	.0	.0	.0	5.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.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	5.0	.0	.0	.0	15.0

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	5.0	.0	.0	.0	.0	5.0
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	5.0	.0	.0	.0	.0	5.0

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) 1963-1971

DECEMBER

TABLE 18 (CONT)

AREA 0010 SOUTHWEST JAVA SEA
5.4S 108.7E

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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	6.3	.0	.0	.0	.0	6.3
3-4	.0	5.0	.0	.0	.0	.0	5.0	.0	.0	5.0	.0	.0	.0	5.0
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	5.0	.0	.0	.0	.0	5.0	.0	6.3	5.0	.0	.0	.0	11.3

	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	10.0	.0	.0	.0	.0	10.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	12.5	.0	.0	.0	.0	12.5	.0	7.5	.0	.0	.0	.0	7.5	
3-4	.0	.0	3.8	.0	.0	.0	3.8	.0	.0	1.3	.0	.0	.0	1.3	
5-6	.0	.0	8.8	.0	.0	.0	8.8	.0	.0	1.3	.0	.0	.0	1.3	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	5.0	.0	.0	.0	5.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	8.8	.0	8.8	.0	.0	.0	.0	1.3	.0	1.3	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	22.5	17.5	.0	8.8	.0	48.8	.0	7.5	2.5	.0	1.3	.0	11.3	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	15.0	.0	.0	.0	.0	15.0	
1-2	.0	40.0	.0	.0	.0	.0	40.0	
3-4	.0	5.0	10.0	.0	.0	.0	15.0	
5-6	.0	.0	10.0	.0	.0	.0	10.0	
7	.0	.0	5.0	.0	.0	.0	5.0	
8-9	.0	.0	5.0	.0	.0	.0	5.0	
10-11	.0	.0	.0	.0	10.0	.0	10.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.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	30.0	.0	10.0	.0	100.0	20

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	7.5	27.5	17.5	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	2
6-7	.0	5.0	2.5	2.5	5.0	5.0	7.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	7
8-9	.0	.0	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
10-11	.0	2.5	.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	12.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	0
TOTAL	8	14	8	3	2	2	3	0	0	0	0	0	0	0	0	0	0	0	0	40	3
PCT	20.0	35.0	20.0	7.5	5.0	5.0	7.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

ANNUAL

PERIOD: (PRIMARY) 1905-1973
(OVER-ALL) 1855-1973

AREA 0010 SOUTHWEST JAVA SEA
5.5S 108.7E

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	4.6	3.2	.2	.0	.0	.0	.0	8.0	.7	4.8	3.0	.0	4.7	.0	79.6
NE	5.1	1.2	1.3	.0	.0	.0	.0	7.7	.3	5.3	5.5	.0	2.5	.0	78.9
E	3.0	3.2	.4	.0	.0	.0	.0	6.7	1.6	4.2	3.6	.0	2.4	.0	81.9
SE	6.7	3.8	.2	.0	.0	.0	.0	10.7	.9	6.3	1.9	.0	.6	.0	82.4
S	6.5	5.4	.4	.0	.0	.0	.0	12.3	.4	6.3	2.1	.0	1.2	.0	80.5
SW	7.3	6.0	.8	.0	.0	.0	.0	14.2	2.8	6.1	3.7	.0	4.0	.0	72.0
W	8.3	4.3	1.6	.0	.0	.0	.0	14.3	.6	12.2	1.3	.0	3.0	.0	76.1
NW	8.3	2.5	1.4	.0	.0	.0	.0	11.2	.1	8.0	1.6	.0	3.1	.0	77.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8	.9	2.4	.0	.0	.0	.0	5.2	.0	5.1	.5	.0	2.0	.0	87.3
TOT PCT	5.1	4.3	.7	.0	.0	.0	.0	10.0	.9	5.9	2.5	.0	2.2	.0	80.0
TOT OBS:	3078														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER 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	6.3	4.1	.9	.0	.0	.0	.0	11.3	1.1	1.9	1.4	.0	2.0	.0	83.2
06&09	4.0	4.0	1.1	.0	.0	.0	.0	9.0	.5	.3	2.8	.0	3.7	.0	83.8
12&15	4.1	2.0	.2	.0	.0	.0	.0	6.2	.8	8.5	1.9	.0	2.1	.0	81.8
18&21	8.0	6.0	.5	.0	.0	.0	.0	14.5	.9	11.6	3.7	.0	1.7	.0	71.6
TOT PCT	5.7	4.2	.7	.0	.0	.0	.0	10.6	.9	6.0	2.6	.0	2.4	.0	79.3
TOT OBS:	3312														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	.4	.1	.0	.0		5.1	6.1	2.2	2.9	3.7	10.6	8.4	4.0	4.5	1.9
NE	1.5	5.6	1.0	*	.0	.0		8.1	6.4	3.5	7.0	5.0	14.8	14.8	8.2	7.8	3.9
E	2.3	12.6	4.0	.1	.0	.0		19.0	7.0	14.7	16.2	20.1	22.0	21.4	20.9	20.7	15.4
SE	2.7	12.4	4.1	.1	.0	.0		19.4	7.0	28.3	27.3	24.2	10.4	11.2	15.5	16.8	23.7
S	1.6	5.9	1.1	*	.0	.0		8.7	6.5	13.7	10.2	6.7	2.9	4.6	10.4	9.3	14.4
SW	1.6	5.0	1.0	*	.0	.0		7.6	6.8	9.9	5.2	7.0	2.9	5.0	12.7	8.9	11.2
W	2.1	7.8	3.7	.4	.1	.0		14.0	7.5	14.4	16.9	14.7	11.8	12.3	15.5	13.9	16.5
NW	1.5	6.9	3.3	.4	*	.0		12.2	7.3	7.9	14.2	12.1	19.8	16.4	10.4	10.3	7.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.9							5.9	.0	5.3	.0	6.6	4.8	5.9	2.4	7.8	5.4
TOT OBS							8367		7.4	1171	125	1351	1099	1406	186	1470	1359
TOT PCT	20.6	59.4	18.7	1.2	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.3	1.6	.1	.0	.0		5.1	6.1	2.4	6.6	8.0	3.3
NE	4.5	3.4	.1	.0	.0		8.1	6.4	3.9	9.0	14.0	5.9
E	8.1	10.1	.8	*	.0		19.0	7.0	14.8	20.8	21.3	18.1
SE	8.6	9.8	1.0	*	.0		19.4	7.0	28.2	18.7	11.6	20.1
S	5.0	3.5	.2	.0	.0		8.7	6.5	13.4	5.2	5.2	11.8
SW	4.4	3.0	.3	*	.0		7.6	6.8	9.5	5.3	5.8	10.0
W	5.9	6.5	1.4	.2	.0		14.0	7.5	14.5	13.4	12.8	15.1
NW	5.1	5.7	1.4	.1	*		12.2	7.3	8.6	15.3	15.8	8.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.9						5.9	.0	4.8	5.8	5.5	6.7
TOT OBS						8367		7.4	1296	2850	1592	2829
TOT PCT	50.7	43.7	5.3	.3	*		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1905-1973
(OVER-ALL) 1855-1973

AREA 0010 SOUTHWEST JAVA SEA
5.5S 108.7E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00603	4.8	14.2	59.0	21.1	.9	.2	.0	7.6	100.0	1296
06609	5.8	15.2	57.7	19.8	1.4	.1	.0	7.6	100.0	2650
12615	5.5	14.3	61.7	17.2	1.1	.1	.0	7.2	100.0	1592
18621	6.7	14.7	59.8	17.6	1.1	*	.0	7.2	100.0	2829
TOT								7.4		8367
PCT	5.9	14.7	59.4	18.7	1.2	.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	.7	.8	1.0	1.2		4.6
NE	1.7	1.0	2.0	1.3		4.2
E	6.6	7.7	6.3	1.6		3.7
SE	6.2	8.4	6.7	1.7		3.6
S	1.3	1.9	1.6	.7		4.5
SW	1.2	.7	2.3	1.7		4.5
W	1.1	2.3	5.8	5.5		5.0
NW	1.2	2.3	5.6	3.5		5.5
VAR	.0	.0	.0	.0		.0
CALM	1.6	1.3	2.8	.7		3.9
TOT OBS					833	4.7
TOT PCT	21.6	26.5	34.1	17.8	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	.6	.3	.1	.0	.0	.0	.0	2.7	
NE	.1	.0	.1	.7	.3	.3	.1	.0	.0	.0	4.3	
E	.0	.0	.3	.5	1.7	.8	.4	.0	.0	.1	18.3	
SE	.0	.0	.1	.8	1.2	.5	.2	.2	.0	.1	19.8	
S	.0	.0	.2	.0	.8	.2	.0	.0	.1	.0	4.2	
SW	.0	.0	.1	1.0	.8	.3	.0	.0	.0	.0	3.6	
W	.0	.1	.2	1.9	2.2	1.2	.1	.0	.0	.2	8.6	
NW	.0	*	.1	.9	1.3	1.6	.3	.1	.0	.0	8.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.5	.5	.3	.2	.0	.0	.0	4.9	
TOT OBS												833
TOT PCT	.1	.2	1.2	7.0	9.3	5.3	1.4	.3	.1	.5	74.7	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >500YD	* OR >0
* OR >6500	.7	.7	.7	.7	.7	.7	.7	.7
* OR >5000	.8	.8	.8	1.0	1.0	1.0	1.0	1.0
* OR >3500	2.3	2.5	2.5	2.6	2.6	2.6	2.6	2.6
* OR >2000	6.6	7.5	7.8	7.9	7.9	7.9	7.9	7.9
* OR >1000	13.5	15.9	16.9	17.0	17.0	17.0	17.0	17.0
* OR >600	18.5	22.3	23.7	23.9	23.9	23.9	23.9	23.9
* OR >300	19.1	23.2	24.7	24.9	24.9	25.1	25.1	25.1
* OR >150	19.1	23.3	24.9	25.0	25.0	25.3	25.3	25.3
* OR > C	19.1	23.3	25.0	25.2	25.2	25.4	25.4	25.4

TOTAL NUMBER OF OBS: 833 PCT FREQ NH <5/8: 74.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

C	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
8.9	16.1	20.9	17.0	12.0	7.1	4.8	5.9	7.2 .0	982

ANNUAL

PERIOD: (PRIMARY) 1905-1973
(OVER-ALL) 1855-1973

AREA 0010 SOUTHWEST JAVA SEA
5.9S 108.7E

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	.1	.1	.0	.0	.2	
	NO PCP	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	*	*	*	.0	.0	.0	.1	.1	.0	.0	.3	
1/2<1	PCP	.0	.0	.0	*	*	*	*	*	.0	.0	.1	
	NO PCP	.0	*	.1	.1	*	*	.1	*	.0	.0	.4	
	TOT %	.0	*	.1	.1	.1	*	.1	.1	.0	.0	.5	
1<2	PCP	.0	.0	.1	.0	.0	*	.1	*	.0	.0	.3	
	NO PCP	.1	.2	.4	.2	.1	.2	.2	.2	.0	.1	1.8	
	TOT %	.1	.2	.5	.2	.1	.3	.4	.2	.0	.1	2.1	
2<5	PCP	.1	*	.1	.1	.1	.1	.3	.2	.0	.0	.9	
	NO PCP	*	.1	.3	.3	.1	.1	.3	.2	.0	.1	1.5	
	TOT %	.1	.2	.4	.4	.2	.2	.5	.4	.0	.1	2.4	
5<10	PCP	.1	.2	.5	1.1	.7	.8	1.4	1.2	.0	.2	6.5	
	NO PCP	2.7	3.2	6.0	6.8	2.8	2.9	5.0	4.7	.0	1.4	35.4	
	TOT %	2.1	3.4	6.5	7.9	3.5	3.7	6.4	5.9	.0	1.6	42.0	
10+	PCP	.1	.2	.1	.3	.2	.3	.6	.2	.0	.0	2.0	
	NO PCP	2.7	4.1	11.3	10.6	3.8	2.8	6.8	6.7	.0	2.0	50.7	
	TOT %	2.8	4.3	11.4	10.8	4.0	3.1	7.4	6.9	.0	2.0	52.7	
	TOT OBS												3079
	TOT PCT	6.1	8.2	19.0	19.4	7.9	7.3	14.8	13.6	.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
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	*	*	.1	.0	.0	*	.1	.0		.3	
	11-21	*	.0	.0	.0	.0	.0	*	*	.0		.1	
	22+	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	TOT %	*	*	.1	.1	.0	.0	.1	.1	.0	.0	.4	
1/2<1	0-3	.0	*	.0	*	*	.0	.0	.0	.0	.0	*	
	4-10	.0	*	.1	.1	.0	*	*	*	.0		.3	
	11-21	.0	.0	*	.1	*	*	.1	*	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.1	.1	.1	*	.1	.1	.0	.0	.5	
1<2	0-3	.0	*	.0	*	.0	*	*	.0	.0	.1	.2	
	4-10	.1	.1	.3	.1	.1	.1	.1	.1	.0		1.1	
	11-21	*	*	.1	*	*	.1	.2	.1	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	*	*	.0		.1	
	TOT %	.1	.2	.3	.1	.1	.2	.4	.2	.0	.1	1.7	
2<5	0-3	*	*	*	.2	.1	*	*	*	.0	.1	.5	
	4-10	*	.1	.3	.3	.1	.2	.2	.3	.0		1.6	
	11-21	*	*	.1	*	.1	*	.2	.1	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.1	.0		.1	
	TOT %	.1	.1	.4	.5	.2	.2	.5	.5	.0	.1	2.6	
5<10	0-3	.7	.2	.3	.7	.4	.4	.6	.6	.0	1.3	5.2	
	4-10	1.5	1.9	3.0	4.1	1.9	2.1	3.0	2.7	.0		20.2	
	11-21	.2	.3	1.5	1.2	.4	.4	1.5	1.3	.0		6.8	
	22+	*	*	*	.0	.0	*	.1	.2	.0		.4	
	TOT %	2.4	2.6	4.9	6.0	2.7	2.9	5.2	4.7	.0	1.3	32.6	
10+	0-3	.8	1.1	1.2	1.2	.8	1.0	.8	1.1	.0	3.7	11.8	
	4-10	1.9	3.5	9.4	8.0	3.4	2.5	4.9	4.6	.0		38.2	
	11-21	.2	.7	2.8	3.0	.5	.4	2.1	2.1	.0		11.7	
	22+	.0	.0	*	.1	.0	.0	.2	.1	.0		.5	
	TOT %	2.9	5.3	13.5	12.2	4.8	3.9	8.0	7.9	.0	3.7	62.1	
	TOT OBS												4169
	TOT PCT	5.6	8.2	19.3	19.0	7.8	7.2	14.3	13.5	.0	5.1	100.0	

ANNUAL

PERIOD: (PRIMARY) 1905-1973
(OVER-ALL) 1855-1973

AREA 0010 SOUTHWEST JAVA SEA
5.5S 108.7E

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
00Z03	.0	.0	.9	7.8	8.3	4.3	.3	.0	.5	.0	22.2	77.8	228
06Z09	.0	.4	2.3	6.4	8.5	6.0	2.4	.8	.0	.0	26.8	73.2	257
12Z15	.0	.0	1.0	3.9	6.4	6.4	1.7	.0	.0	.4	19.9	80.1	245
18Z21	.4	.0	.0	6.4	9.4	2.0	1.1	.0	.0	1.7	21.0	79.0	219
TOT													949
PCT	.1	.1	1.1	6.1	8.2	4.8	1.5	.2	.1	.5	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	.9	.7	1.9	3.1	33.0	60.5	769
06Z09	.5	.7	2.4	2.1	30.3	64.0	1212
12Z15	.2	.5	1.7	3.3	29.1	65.1	965
18Z21	.1	.2	1.6	2.4	41.6	54.1	1457
TOT							4403
PCT	.4	.5	1.9	2.6	34.3	60.3	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	1.1	12.0	13.5	74.5	207
06Z09	.0	3.0	13.4	19.5	67.1	220
12Z15	.0	1.2	6.6	14.8	78.6	225
18Z21	.5	.5	7.7	15.7	76.6	201
TOT						853
PCT	.1	1.5	9.9	15.9	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	.0	*	.0	.0	.0		*
90/94	.0	.0	.0	.2	.2	.1	.0	*		.6
85/89	.0	.0	.0	.1	2.3	5.2	2.4	.4		10.4
80/84	.0	.0	.0	.3	3.8	27.3	38.2	7.6		77.2
75/79	.0	.0	.0	*	.1	1.9	5.6	4.0		11.6
70/74	.0	.0	.0	.0	.0	*	.0	.2		.2
TOTAL									2153	100.0
PCT	.0	.0	.0	.7	6.4	34.5	46.2	12.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	*	*	.0	.0	.0	.0	.0	.0
	*	*	.3	.1	.0	*	*	*	.0	.0
	1.1	1.1	2.6	1.3	.3	.6	1.1	1.6	.0	.5
	4.9	6.1	14.6	15.2	5.5	5.4	10.8	11.4	.0	3.3
	.6	.3	1.1	2.4	1.5	1.3	2.7	1.3	.0	.4
	.0	.0	.0	.0	.1	*	.1	*	.0	.0
PCT	6.6	7.6	18.6	19.0	7.5	7.4	14.7	14.5	.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	94	87	85	82	78	76	73	81.5	1292
06Z09	95	90	88	83	80	77	74	83.3	2539
12Z15	91	88	85	82	79	77	71	82.1	1590
18Z21	89	85	84	81	78	76	72	81.0	2892
TOT	95	88	86	82	78	76	71	82.0	8313

TABLE 16

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	.6	2.1	32.2	49.5	15.6	82	410
06Z09	.0	1.3	16.0	39.3	35.3	7.5	78	639
12Z15	.0	.2	4.8	38.7	45.0	11.3	81	496
18Z21	.0	.5	2.3	27.5	52.8	16.9	83	823
TOT	0	15	148	705	1094	316	81	2368

ANNUAL

PERIOD: (PRIMARY) 1905-1973
(OVER-ALL) 1855-1973

AREA 0010 SOUTHWEST JAVA SEA
5.5S 108.7E

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	89 92	>92	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.1	.1	.0	5	.0	.2
7/8	.0	.0	.2	.1	.3	.1	18	.0	.7
6	.0	.0	.0	*	.1	.0	3	.0	.1
5	.0	.1	.1	.5	.4	.0	26	.0	1.1
4	.0	.1	.9	.7	.1	.0	47	.1	1.7
3	.0	*	.9	1.4	*	.0	61	.1	2.3
2	.0	.1	5.1	2.2	.1	.0	188	.2	7.3
1	.0	.7	6.8	1.9	*	.0	242	.6	8.8
0	*	2.0	17.9	2.0	.1	.0	563	.7	21.2
-1	.0	2.3	12.7	.8	.0	.0	405	.4	15.4
-2	.1	4.4	14.1	.3	.0	.0	485	.2	18.6
-3	.1	2.5	4.2	.2	.0	.0	174	.2	6.7
-4	.1	3.9	3.4	.1	.0	.0	189	.1	7.3
-5	.3	2.0	.9	.0	.0	.0	84	*	3.2
-6	.3	1.0	.2	.0	.0	.0	38	.0	1.5
-7/-8	.3	.4	.1	.0	.0	.0	21	.0	.8
-9/-10	.2	.0	.0	.0	.0	.0	4	.0	.2
-11/-13	.0	*	.0	.0	.0	.0	1	.0	*
TOTAL							2554		
PCT	1.4	19.4	67.5	10.3	1.4	.1	100.0	2.7	97.3

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.3	.0	.0	.0	.0	.6
1-2	.0	1.6	.2	.0	.0	.0	1.8
3-4	.0	.4	.3	.0	.0	.0	.7
5-6	.0	.0	.0	.0	.0	.0	.0
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	.3	2.3	.7	.2	.0	.0	3.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.2	.0	.0	.0	.0	1.3
1-2	.0	1.8	.5	.0	.0	.0	2.3
3-4	.0	.7	.1	.4	.0	.0	1.2
5-6	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.7	1.3	.4	.0	.0	5.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.1	.0	.0	.0	.0	1.4
1-2	.5	7.3	1.6	.0	.0	.0	9.4
3-4	.0	1.9	4.9	.2	.0	.0	7.0
5-6	.0	.5	1.7	.0	.0	.0	2.2
7	.0	.0	.6	.3	.0	.0	.9
8-9	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	10.8	8.8	.7	.0	.0	21.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	1.3	.0	.0	.0	.0	2.4
1-2	.8	7.7	2.1	.0	.0	.0	10.5
3-4	.4	2.4	6.3	.3	.0	.0	9.3
5-6	.0	.5	2.5	.0	.0	.0	3.0
7	.0	.0	.5	.2	.0	.0	.7
8-9	.0	.0	.5	.0	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.3	11.9	11.8	.5	.0	.0	26.5

PERIOD: (OVER-ALL) 1963-1973

ANNUAL

TABLE 18 (CONT)

AREA 0010 SOUTHWEST JAVA SEA
5.5S 108.7E

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	.4	.5	.0	.0	.0	.0	.9
1-2	.4	1.7	.8	.0	.0	.0	2.9
3-4	.0	1.0	.0	.0	.0	.0	1.0
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	.8	3.2	1.3	.0	.0	.0	5.3

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.2	.0	.0	.0	.0	.9
1-2	1.1	2.3	.4	.0	.0	.0	3.8
3-4	.2	.4	.7	.0	.0	.0	1.3
5-6	.0	.0	.3	.2	.0	.0	.4
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	1.9	3.1	1.3	.2	.0	.0	6.5

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	.6	4.1	.5	.0	.0	.0	5.3
3-4	.0	.8	1.7	.0	.0	.0	2.5
5-6	.0	.0	1.5	.4	.0	.0	1.9
7	.0	.0	.7	.0	.0	.0	.7
8-9	.0	.0	.4	.1	.0	.0	.5
10-11	.0	.0	.0	.0	.7	.0	.7
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	6.9	4.9	.5	.7	.0	13.7

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	.3	2.9	1.3	.0	.0	.0	4.5	
3-4	.0	1.9	2.3	.0	.0	.0	4.2	
5-6	.0	.2	1.1	.4	.0	.0	1.7	
7	.0	.0	.2	.2	.0	.0	.3	
8-9	.0	.0	.3	.5	.0	.0	.9	
10-11	.0	.0	.0	.0	.1	.0	.1	
12	.0	.0	.0	.2	.0	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	5.5	5.2	1.2	.1	.0	12.3	94.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.9	7.3	.0	.0	.0	.0	16.2	
1-2	4.0	29.0	7.4	.0	.0	.0	40.3	
3-4	.6	9.5	16.1	.9	.0	.0	27.0	
5-6	.0	1.2	7.4	.9	.0	.0	9.5	
7	.0	.2	2.8	.6	.0	.0	3.6	
8-9	.0	.0	1.3	1.1	.0	.0	2.3	
10-11	.0	.0	.0	.0	.8	.0	.8	
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	13.5	47.1	34.9	3.6	.8	.0	100.0	407

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	10.7	28.8	18.6	4.8	2.0	1.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	492	2
6-7	.0	2.5	5.2	3.8	1.7	1.5	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	108	4
8-9	.0	.1	1.1	.6	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	5
10-11	.0	.5	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	3
12-13	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	3
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	9.7	2.4	1.0	1.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	106	1
TOTAL																				734	3
PCT	20.3	34.3	26.6	10.1	4.7	3.1	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1905-1973
(OVER-ALL) 1855-1973

AREA 0010 SOUTHWEST JAVA SEA
5.5S 108.7E

TABLE 20

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

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.2	.3	.0	.9	.3	.0	.0	.0	.9	.0	.2	17	.2
87/88	.5	.8	3.0	3.3	3.8	2.6	.7	.1	.4	1.1	2.7	2.9	132	1.8
85/86	9.0	9.1	17.3	26.9	27.4	13.6	2.9	2.6	3.5	12.9	22.0	17.6	997	13.3
83/84	30.3	30.9	38.6	45.9	44.6	44.3	33.7	16.4	27.8	43.2	49.0	41.3	2746	36.6
81/82	49.2	46.1	33.6	21.7	21.0	32.9	52.0	58.5	53.5	35.0	23.1	32.0	2921	39.0
79/80	9.3	10.7	6.8	1.7	1.9	5.0	8.5	19.7	12.9	5.9	3.2	5.2	587	7.8
77/78	1.0	2.1	.5	.3	.2	.5	2.2	1.7	1.6	.2	.0	.6	72	1.0
75/76	.5	.2	.0	.2	.2	.2	.0	.4	.3	.9	.0	.2	18	.2
73/74	.2	.0	.0	.0	.0	.7	.0	.4	.0	.0	.0	.0	8	.1
71/72	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
69/70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
67/68	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
65/66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
63/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.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	600	657	643	636	634	605	721	689	706	560	563	484	7498	100.0
MEAN	82.3	82.3	82.9	83.6	83.7	82.9	82.1	81.4	81.9	82.8	83.5	83.1	82.7	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1010	1009	1009	1008	1009	1010	1010	1009	1009	284
FEB	1010	1009	1009	1008	1009	1009	1010	1009	1009	323
MAR	1010	1010	1010	1008	1009	1009	1010	1009	1009	371
APR	1010	1010	1009	1008	1009	1010	1010	1008	1009	287
MAY	1010	1010	1009	1008	1009	1009	1010	1009	1009	286
JUN	1010	1010	1010	1009	1009	1010	1010	1009	1010	278
JUL	1011	1010	1010	1009	1010	1010	1010	1010	1010	287
AUG	1011	1011	1010	1009	1010	1011	1011	1010	1010	322
SEP	1011	1011	1011	1008	1010	1010	1010	1010	1010	260
OCT	1011	1011	1011	1009	1010	1010	1010	1010	1010	309
NOV	1011	1010	1009	1008	1010	1009	1010	1009	1009	281
DEC	1010	1010	1009	1008	1009	1008	1009	1008	1009	228
ANN	1010	1010	1010	1008	1009	1010	1010	1009	1010	3516
OBS	485	95	638	411	582	174	608	523		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	1002	1003	1005	1008	1009	1011	1013	1013	1014
FEB	1002	1002	1005	1008	1009	1011	1013	1014	1015
MAR	1004	1005	1006	1006	1009	1011	1012	1013	1014
APR	1004	1005	1006	1008	1009	1010	1013	1013	1014
MAY	1005	1005	1006	1008	1009	1010	1012	1013	1014
JUN	1003	1005	1007	1008	1010	1011	1013	1014	1016
JUL	1005	1006	1008	1009	1010	1011	1012	1013	1014
AUG	1004	1006	1007	1009	1010	1011	1013	1014	1015
SEP	1004	1004	1007	1009	1010	1011	1013	1013	1015
OCT	1005	1006	1007	1009	1010	1011	1014	1014	1015
NOV	1004	1004	1006	1008	1010	1011	1012	1013	1014
DEC	1004	1004	1006	1007	1009	1010	1012	1013	1014

JANUARY

PERIOD: (PRIMARY) 1913-1967
(OVER-ALL) 1857-1967

AREA 0011 SOUTH CENTRAL JAVA
7.8S 109.9E

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 BLWG SNOW	NO SIG WEA
N	10.0	.0	.0	.0	.0	.0	.0	10.0	.0	.0	.0	.0	.0	.0	90.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
S	14.8	.0	.0	.0	.0	.0	.0	14.8	.0	.0	.0	.0	11.1	.0	74.1
SW	12.7	7.0	.0	.0	.0	.0	.0	19.7	.0	5.6	.0	.0	1.4	.0	73.2
W	11.4	2.3	.0	.0	.0	.0	.0	13.6	3.0	.0	.0	.0	.0	.0	83.3
NW	.0	4.5	4.5	.0	.0	.0	.0	9.1	4.5	.0	.0	.0	4.5	.0	81.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	16.7	.0	.0	.0	.0	.0	16.7	.0	.0	.0	.0	.0	.0	83.3
TOT PCT	7.8	3.9	1.0	.0	.0	.0	.0	12.7	2.0	1.0	.0	.0	2.0	.0	82.4
TOT OBS:	102														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00603	2.9	2.9	2.9	.0	.0	.0	.0	8.6	.0	.0	.0	.0	8.6	.0	82.9
06609	6.1	6.1	.0	.0	.0	.0	.0	12.1	3.0	.0	.0	.0	.0	.0	84.8
12615	15.2	3.0	.0	.0	.0	.0	.0	18.2	.0	.0	.0	.0	.0	.0	81.8
18621	.0	.0	.0	.0	.0	.0	.0	.0	11.1	11.1	.0	.0	.0	.0	77.8
TOT PCT	7.3	3.6	.9	.0	.0	.0	.0	11.8	1.8	.9	.0	.0	2.7	.0	82.7
TOT OBS:	110														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.0	2.9	.4	.0	.0	.0		4.3	5.5	6.0	.0	7.7	1.0	1.3	50.0	2.8	4.5
NE	.4	2.5	.0	.0	.0	.0		2.9	5.6	7.7	.0	3.0	3.0	.0	.0	5.6	3.6
E	1.5	1.4	.0	.0	.0	.0		2.7	4.3	6.0	12.5	2.4	.0	1.9	.0	1.5	2.7
SE	1.3	4.1	.0	.0	.0	.0		5.3	5.2	6.0	12.5	5.4	4.0	5.8	.0	6.5	3.6
S	1.3	5.5	.0	.0	.0	.0		6.8	5.2	3.4	25.0	3.0	10.0	9.6	50.0	9.3	4.5
SW	3.4	10.9	4.4	.4	.0	.0		19.2	8.2	5.6	.0	17.3	36.0	26.9	.0	17.6	16.1
W	4.5	16.4	12.9	3.3	.0	.0		37.1	11.0	34.0	.0	40.2	33.0	39.1	.0	37.0	41.1
NW	2.6	5.1	4.8	.9	.0	.0		13.4	10.1	23.0	30.0	12.8	7.0	10.3	.0	10.2	11.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.4							8.4	.0	10.4	.0	8.3	6.0	5.1	.0	9.3	12.5
TOT OBS	95	193	89	18	0	0	395		8.1	67	4	84	50	78	2	54	56
TOT PCT	24.1	48.9	22.5	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	3.4	.9	.0	.0	.0		4.3	5.5	5.6	5.2	2.5	3.6
NE	2.2	.8	.0	.0	.0		2.9	5.6	3.5	3.0	.0	4.5
E	2.2	.5	.0	.0	.0		2.7	4.3	6.3	1.5	1.9	2.3
SE	4.1	1.3	.0	.0	.0		5.3	5.2	6.3	4.9	5.6	5.0
S	5.3	1.5	.0	.0	.0		6.8	5.2	4.6	5.6	10.6	6.8
SW	8.3	9.2	1.5	.1	.0		19.2	8.2	5.3	24.3	26.3	16.8
W	11.0	17.3	7.7	1.0	.0		37.1	11.0	32.0	37.5	38.1	39.1
NW	5.4	4.7	3.2	.1	.0		13.4	10.1	20.4	10.6	10.0	10.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	8.4						8.4	.0	9.9	7.5	5.0	10.9
TOT OBS	198	143	49	5	0	395		8.1	71	134	80	110
TOT PCT	50.1	36.2	12.4	1.3	.0		100.0		100.0	100.0	100.0	100.0

JANUARY

PERIOD: (PRIMARY) 1913-1967
(OVER-ALL) 1857-1967

AREA 0011 SOUTH CENTRAL JAVA
7.8S 109.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	9.9	23.9	43.7	16.9	5.6	.0	.0	7.3	100.0	71
06&09	7.5	17.2	45.5	24.6	5.2	.0	.0	8.7	100.0	134
12&15	5.0	17.5	52.5	22.5	2.5	.0	.0	7.8	100.0	80
18&21	10.9	7.3	53.6	23.6	4.5	.0	.0	8.3	100.0	110
TOT	33	62	193	89	18	0	0	8.1		395
PCT	8.4	15.7	48.9	22.5	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	.0	.0	.0	.0		.0
E	2.8	.0	.0	.0		2.0
SE	2.8	.0	.0	.0		2.0
S	5.6	5.6	.0	.0		2.0
SW	5.4	5.6	16.7	.0		5.0
W	5.6	5.6	2.8	11.1		5.6
NW	.0	.0	8.3	11.1		7.5
VAR	.0	.0	.0	.0		.0
CALM	.0	5.6	5.6	.0		5.0
TOT OBS	4	4	6	4	18	5.1
TOT PCT	22.2	22.2	33.3	22.2	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	.0	.0	.0	.0	.0	.0	.0	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.1	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27.8	
W	.0	.0	.0	.0	5.6	2.8	.0	.0	.0	.0	16.7	
NW	.0	.0	.0	5.6	.0	2.8	.0	.0	.0	.0	11.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	5.6	.0	.0	.0	.0	.0	5.6	
TOT OBS	0	0	0	1	2	1	0	0	0	0	14	18
TOT PCT	.0	.0	.0	5.6	11.1	5.6	.0	.0	.0	.0	77.8	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >500YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >2000	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
* OR >1000	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7
* OR >600	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2
* OR >300	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2
* OR >150	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2
* OR > 0	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2
TOTAL	4	4	4	4	4	4	4	4

TOTAL NUMBER OF OBS: 18 PCT FREQ NH <5/8: 77.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
.0	11.1	11.1	27.8	27.8	5.6	11.1	5.6	.0	.0	18

PERIOD: (PRIMARY) 1913-1967
(OVER-ALL) 1857-1967

AREA 0011 SOUTH CENTRAL JAVA
7.8S 109.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR 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	1.0	.0	.0	.0	.0	1.0	
	TOT %	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	1.0	
5<10	PCP	1.0	.0	.0	.0	1.0	2.5	2.5	.0	.0	.0	6.9	
	NO PCP	1.0	.0	.0	.0	1.0	.0	4.4	.5	.0	.0	6.9	
	TOT %	2.0	.0	.0	.0	2.0	2.5	6.9	.5	.0	.0	13.7	
10+	PCP	.0	.0	.0	.0	.0	1.0	2.0	2.0	.0	1.0	5.9	
	NO PCP	7.8	1.5	2.0	2.9	4.7	13.0	23.5	19.1	.0	4.9	79.4	
	TOT %	7.8	1.5	2.0	2.9	4.7	14.0	25.5	21.1	.0	5.9	85.3	
	TOT OBS												102
	TOT PCT	9.8	1.5	2.0	2.9	6.6	17.4	32.4	21.6	.0	5.9	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	.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	.5	.0	.0	.0	.5	.3	.3	.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	.5	.0	.0	.0	.5	.3	.3	.0	.0	1.6	
5<10	0-3	.0	.0	.0	.0	.5	.5	2.0	.1	.0	.0	3.2	
	4-10	1.1	.0	.3	.3	.5	.8	1.7	.7	.0		5.3	
	11-21	.0	.0	.0	.0	.0	.0	1.1	.0	.0		1.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	1.1	.0	.3	.3	1.1	1.3	4.8	.8	.0	.0	9.5	
10+	0-3	2.1	.8	1.1	1.9	1.6	4.2	6.3	4.2	.0	6.9	29.1	
	4-10	3.4	1.9	2.1	6.6	6.0	8.6	13.0	6.1	.0		47.6	
	11-21	.5	.0	.0	.0	.0	3.2	3.7	3.2	.0		10.6	
	22+	.0	.0	.0	.0	.0	.0	.8	.8	.0		1.6	
	TOT %	6.1	2.6	3.2	8.5	7.5	16.0	23.8	14.3	.0	6.9	88.9	
	TOT OBS												189
	TOT PCT	7.1	3.2	3.4	8.7	8.6	17.9	28.8	15.3	.0	6.9	100.0	

JANUARY

PERIOD: (PRIMARY) 1913-1967
(OVER-ALL) 1857-1967

AREA 0011 SOUTH CENTRAL JAVA
7.8S 109.9E

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
00603	.0	.0	.0	20.0	20.0	20.0	.0	.0	.0	.0	60.0	40.0	5
06609	.0	.0	.0	.0	25.0	.0	.0	.0	.0	.0	25.0	75.0	4
12615	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	5
18621	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	4
TOT	0	0	0	1	2	1	0	0	0	0	4	14	18
PCT	.0	.0	.0	5.6	11.1	5.6	.0	.0	.0	.0	22.2	77.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	.0	.0	2.1	2.1	4.3	91.5	47
06609	.0	.0	.0	.0	3.6	96.4	56
12615	.0	.0	.0	.0	26.5	73.5	49
18621	.0	.0	.0	4.4	6.7	88.9	45
TOT	0	0	1	3	20	173	197
PCT	.0	.0	.5	1.5	10.2	87.8	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
00603	.0	.0	20.0	40.0	40.0	5
06609	.0	.0	.0	25.0	75.0	4
12615	.0	.0	.0	.0	100.0	5
18621	.0	.0	25.0	.0	75.0	4
TOT	0	0	2	3	13	18
PCT	.0	.0	11.1	16.7	72.2	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	1.6	.0	.0	.0	1	1.6
85/89	.0	.0	.0	.0	3.3	8.2	6.6	.0	11	18.0
80/84	.0	.0	.0	.0	1.6	8.2	39.2	6.6	34	55.7
75/79	.0	.0	.0	.0	.0	1.6	13.1	9.8	15	24.6
TOTAL	0	0	0	0	4	11	36	10	61	100.0
PCT	.0	.0	.0	.0	6.6	18.0	59.0	16.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6
	1.6	.0	.0	.0	.0	4.9	6.6	4.9	.0	.0
	.0	.0	.8	2.5	3.3	13.5	22.1	10.2	.0	3.3
	3.3	.0	.0	.0	1.2	.8	9.4	8.2	.0	1.6
	4.9	.0	.8	2.5	4.5	19.3	38.1	23.4	.0	6.6

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	87	86	85	81	77	74	74	80.7	73
06609	92	91	89	83	78	78	75	83.6	123
12615	85	84	84	82	78	76	76	81.6	79
18621	84	83	83	80	77	75	75	80.1	106
TOT	92	90	87	81	77	76	74	81.7	381

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	.0	8.7	4.3	52.2	34.8	86	23
06609	.0	.0	12.5	43.8	43.8	.0	76	16
12615	.0	.0	.0	14.3	71.4	14.3	85	21
18621	.0	.0	.0	.0	100.0	.0	84	4
TOT	0	0	4	11	38	11	83	64

JANUARY

PERIOD: (PRIMARY) 1913-1967
(OVER-ALL) 1857-1967

AREA 001: SOUTH CENTRAL JAVA
7.85 109.9E

TABLE 17

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

AIR-SEA TMP DIF	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
6	.0	.0	.0	2.6	1	.0	2.6
3	.0	.0	2.6	.0	1	.0	2.6
2	.0	.0	2.6	.0	1	.0	2.6
0	.0	21.1	2.6	.0	9	.0	23.7
-1	5.3	13.2	.0	.0	7	.0	18.4
-2	5.3	18.4	.0	.0	9	.0	23.7
-3	.0	2.6	2.6	.0	2	.0	5.3
-4	7.9	10.5	.0	.0	7	.0	18.4
-5	.0	2.6	.0	.0	1	.0	2.6
TOTAL	7	26	4	1	38	0	38
PCT	18.4	68.4	10.5	2.6	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	.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) 1963-1967

JANUARY

TABLE 18 (CONT)

AREA 0011 SOUTH CENTRAL JAVA
7.8S 109.9E

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	9.1	.0	.0	.0	.0	9.1
1-2	.0	9.1	.0	.0	.0	.0	9.1	.0	.0	18.2	.0	.0	.0	18.2
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.1	.0	.0	.0	9.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	9.1	.0	.0	.0	.0	9.1	.0	9.1	27.3	.0	.0	.0	36.4

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	9.1	.0	.0	.0	.0	9.1	
1-2	.0	9.1	.0	.0	.0	.0	9.1	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	9.1	.0	.0	.0	.0	9.1	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	9.1	.0	.0	9.1	.0	.0	9.1	.0	.0	.0	9.1	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.1	.0	.0	9.1	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.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	18.2	.0	9.1	.0	.0	27.3	.0	9.1	9.1	9.1	.0	.0	27.3	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	18.2	.0	.0	.0	.0	18.2	
1-2	.0	18.2	18.2	.0	.0	.0	36.4	
3-4	.0	9.1	.0	.0	.0	.0	9.1	
5-6	.0	.0	18.2	9.1	.0	.0	27.3	
7	.0	.0	.0	9.1	.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	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	45.5	36.4	18.2	.0	.0	100.0	11

PERIOD: (OVER-ALL) 1963-1967

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	6.7	20.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	3
6-7	.0	.0	6.7	.0	.0	6.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
8-9	.0	13.3	.0	.0	.0	.0	13.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	6
10-11	.0	.0	.0	.0	6.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
12-13	.0	.0	.0	.0	.0	6.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
>13	.0	.0	.0	.0	.0	.0	6.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	10
INDET	.0	6.7	.0	.0	.0	6.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
TOTAL	0	4	4	0	1	3	3	0	0	0	0	0	0	0	0	0	0	0	0	15	5
PCT	.0	26.7	26.7	.0	6.7	20.0	20.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1870-1973

AREA 0011 SOUTH CENTRAL JAVA
7.8S 109.9E

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	.0	3.8	.0	.0	.0	.0	.0	3.8	.0	.0	.0	.0	15.4		.0	80.8
E	.0	7.9	.0	.0	.0	.0	.0	7.9	.0	.0	.0	.0	.0		.0	92.1
SE	.0	5.1	.0	.0	.0	.0	.0	5.1	.0	.0	.0	.0	.0		.0	94.9
S	.0	5.9	.0	.0	.0	.0	.0	5.9	.0	.0	.0	.0	.0		.0	94 1
SW	9.4	1.2	.0	.0	.0	.0	.0	10.6	.0	4.7	.0	.0	.0		.0	84.7
W	7.1	2.7	3.6	.0	.0	.0	.0	13.4	.0	10.7	.0	.0	.0		.0	79.5
NW	8.5	.0	.0	.0	.0	.0	.0	8.5	4.3	.0	.0	.0	.0		.0	87.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	4.5	4.5	.0	.0	.0	.0	.0	9.1	.0	.0	.0	.0	4.5		.0	86.4
TOT PCT	5.3	3.0	.8	.0	.0	.0	.0	9.0	.8	3.0	.0	.0	1.5		.0	86.5
TOT OBS:	133															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE							OTHER WEATHER 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	2.5	.0	.0	.0	.0	.0	.0	2.5	2.5	.0	.0	.0	2.5		.0	92.5
06Z09	2.1	2.1	.0	.0	.0	.0	.0	4.3	.0	2.1	.0	.0	.0		.0	95.7
12Z15	11.1	4.4	2.2	.0	.0	.0	.0	17.8	2.2	2.2	.0	.0	2.2		.0	75.6
18Z21	.0	11.1	.0	.0	.0	.0	.0	11.1	.0	22.2	.0	.0	.0		.0	66.7
TOT PCT	5.0	2.8	.7	.0	.0	.0	.0	8.5	1.4	2.8	.0	.0	1.4		.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	1.0	2.8	.1	.0	.0	.0		3.8	5.7	6.3	.0	5.2	.0	.9	.0	5.6	4.9
NE	1.4	2.5	.3	.0	.0	.0		4.1	5.2	7.1	66.7	1.7	.0	3.1	.0	2.8	6.9
E	.8	4.3	.1	.0	.0	.0		5.2	5.9	10.8	.0	1.7	1.9	4.8	.0	4.1	6.9
SE	3.0	3.9	.2	.0	.0	.0		7.1	4.5	3.2	.0	11.0	9.3	9.4	.0	6.3	3.5
S	1.8	4.7	.0	.0	.0	.0		6.5	5.0	1.1	.0	1.7	14.8	11.0	.0	8.8	4.2
SW	3.5	10.3	2.7	.1	.2	.0		16.7	7.4	9.2	16.7	12.2	38.0	27.2	33.3	9.4	6.9
W	4.3	14.2	6.0	1.4	.6	.0		27.4	9.7	22.9	16.7	33.1	28.7	26.5	.0	28.8	27.1
NW	4.4	11.2	2.5	.1	.0	.0		18.2	6.6	25.8	.0	20.3	5.6	7.5	66.7	23.1	25.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.8							10.8	.0	13.7	.0	12.8	1.9	9.6	.0	11.3	13.9
TOT OBS	157	278	60	8	4	0	507		6.5	95	3	86	54	114	3	80	72
TOT PCT	31.0	54.8	11.8	1.6	.8	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.7	1.1	.1	.0	.0		3.8	5.7	6.1	4.2	.9	5.3
NE	3.1	1.0	.0	.0	.0		4.1	5.2	8.9	1.1	3.0	4.8
E	3.5	1.7	.0	.0	.0		5.2	5.9	10.5	1.8	4.7	5.4
SE	5.7	1.4	.0	.0	.0		7.1	4.5	3.1	10.4	9.2	4.9
S	5.2	1.3	.0	.0	.0		6.5	5.0	1.0	6.8	10.7	6.6
SW	9.0	7.0	.5	.1	.1		16.7	7.4	9.4	22.1	27.4	8.2
W	10.8	12.6	2.9	.8	.3		27.4	9.7	22.7	31.4	25.9	28.0
NW	11.1	6.6	.4	.1	.0		18.2	6.6	25.0	14.6	9.0	24.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	10.8						10.8	.0	13.3	8.6	9.4	12.5
TOT OBS	314	166	20	5	2	507		6.5	98	140	117	152
TOT PCT	61.9	32.7	3.9	1.0	.4		100.0		100.0	100.0	100.0	100.0

FEBRUARY

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1870-1973

AREA 0011 SOUTH CENTRAL JAVA
7.8S 109.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) .1-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00Z03	13.3	26.5	50.0	10.2	.0	.0	.0	5.2	100.0	98
06Z09	8.6	22.9	53.6	13.6	1.4	.0	.0	6.5	100.0	140
12Z15	9.4	17.9	55.6	13.7	2.6	.9	.0	6.8	100.0	117
18Z21	12.5	15.1	58.6	9.9	2.0	2.0	.0	7.0	100.0	152
TOT	55	102	278	60	8	4	0	6.5		507
PCT	10.8	20.1	54.8	11.8	1.6	.8	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.0		.0
NE	.0	.0	5.0	.0		5.2
E	.0	8.0	3.0	.0		4.1
SE	.0	4.0	.0	.0		3.0
S	.0	4.0	.0	.0		3.0
SW	.0	13.0	1.0	.0		3.5
W	.0	26.0	11.0	4.0		4.5
NW	.0	1.0	4.0	8.0		7.3
VAR	.0	.0	.0	.0		.0
CALM	.0	8.0	.0	.0		3.5
TOT OBS	0	16	6	3	25	4.5
TOT PCT	.0	64.0	24.0	12.0	100.0	

TABLE 6

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

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NE	.0	.0	.0	.0	.0	4.0	.0	.0	.0	.0	1.0	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.0	
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.0	
W	.0	.0	4.0	.0	.0	.0	.0	.0	.0	.0	37.0	
NW	.0	.0	.0	.0	.0	4.0	.0	.0	.0	.0	9.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.0	
TOT OBS	0	0	1	0	0	2	0	0	0	0	22	25
TOT PCT	.0	.0	4.0	.0	.0	8.0	.0	.0	.0	.0	88.0	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) • OR >10	• OR >5	• OR >2	• OR >1	• OR >1/2	• OR >1/4	• OR >500YD	• OR >0
• OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
• OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
• OR >3500	.0	.0	.0	.0	.0	.0	.0	.0
• OR >2000	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
• OR >1000	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
• OR >600	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
• OR >300	6.9	10.3	10.3	10.3	10.3	10.3	10.3	10.3
• OR >150	6.9	10.3	10.3	10.3	10.3	10.3	10.3	10.3
• OR > 0	6.9	10.3	10.3	10.3	10.3	10.3	10.3	10.3
TOTAL	2	3	3	3	3	3	3	3

TOTAL NUMBER OF OBS: 29 PCT FREQ NH <5/8: 89.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
.0	6.9	24.1	37.9	20.7	6.9	.0	3.4	.0	.0	29

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1870-1973

AREA 0011 SOUTH CENTRAL JAVA
7.8S 109.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR 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	.8	.0	.8	.0	.0	1.5	
	NO PCP	.0	.8	.0	.0	.0	.8	.0	.0	.0	.0	1.5	
	TOT %	.0	.8	.0	.0	.0	1.5	.0	.8	.0	.0	3.0	
5<10	PCP	.0	.2	.6	.4	.4	.0	.8	.8	.0	.8	3.8	
	NO PCP	.0	.8	2.3	.0	1.5	1.5	1.5	3.0	.0	3.0	13.6	
	TOT %	.0	.9	2.8	.4	1.9	1.5	2.3	3.8	.0	3.8	17.4	
10+	PCP	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.8	3.0	
	NO PCP	3.0	3.2	4.4	7.0	4.5	12.1	16.9	13.3	.0	12.1	76.5	
	TOT %	3.0	3.2	4.4	7.0	4.5	13.1	18.2	13.3	.0	12.9	79.5	
	TOT OBS												132
	TOT PCT	3.0	4.9	7.2	7.4	6.4	16.1	20.5	17.8	.0	16.7	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	.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	.2	.2	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.4	
2<5	0-3	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	.8	
	4-10	.0	.4	.0	.0	.2	.6	.0	.4	.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	.4	.0	.0	.2	1.0	.0	.4	.0	.4	2.4	
5<10	0-3	.0	.0	.0	.2	.2	.0	.0	.4	.0	2.0	2.8	
	4-10	.0	.5	1.5	.6	1.0	1.2	1.4	1.8	.0		7.9	
	11-21	.0	.0	.0	.0	.0	.2	1.2	.6	.0		2.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.5	1.5	.8	1.2	1.4	2.6	2.8	.0	2.0	12.6	
10+	0-3	1.8	.8	1.2	3.9	2.0	3.6	5.0	4.1	.0	11.8	34.3	
	4-10	3.7	1.9	4.0	4.2	4.5	6.5	10.0	8.4	.0		43.3	
	11-21	.2	.4	.0	.4	.0	1.2	3.4	1.5	.0		7.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	5.7	3.1	5.2	8.6	6.5	11.3	18.5	14.0	.0	11.8	84.6	
	TOT OBS												254
	TOT PCT	5.7	3.9	6.7	9.4	7.9	13.7	21.3	17.3	.0	14.2	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1870-1973

AREA 0011 SOUTH CENTRAL JAVA
7.8S 109.9E

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
00E03	.0	.0	.0	.0	.0	28.6	.0	.0	.0	.0	28.6	71.4	7
06E09	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	9
12E15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	8
18E21	.0	.0	20.0	.0	.0	.0	.0	.0	.0	.0	20.0	80.0	5
TOT	0	0	1	0	0	2	0	0	0	0	3	26	29
PCT	.0	.0	3.4	.0	.0	6.9	.0	.0	.0	.0	10.3	89.7	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	1.6	7.9	90.5	63
06E09	.0	.0	.0	.0	11.7	88.3	77
12E15	.0	.0	.0	5.9	19.1	75.0	68
18E21	.0	.0	1.9	1.9	13.0	83.3	54
TOT	0	0	1	6	34	221	262
PCT	.0	.0	.4	2.3	13.0	84.4	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
00E03	.0	.0	.0	28.6	71.4	7
06E09	.0	.0	.0	.0	100.0	9
12E15	.0	.0	.0	.0	100.0	8
18E21	.0	20.0	20.0	.0	80.0	5
TOT	0	1	1	2	26	29
PCT	.0	3.4	3.4	6.9	89.7	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	3.1	1.0	1.0	.0	5	5.2
85/89	.0	.0	.0	.0	4.2	10.4	5.2	5.2	24	25.0
80/84	.0	.0	.0	.0	.0	15.6	31.3	11.5	56	58.3
75/79	.0	.0	.0	.0	.0	.0	2.1	9.4	11	11.5
TOTAL	0	0	0	0	7	26	38	25	96	100.0
PCT	.0	.0	.0	.0	7.3	27.1	39.6	26.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	2.1	.0	.0	2.1	.0	.0	1.0
	2.1	1.0	3.1	3.1	1.0	3.1	4.2	3.1	.0	4.2
	1.0	1.6	5.7	1.8	7.8	9.9	14.3	9.9	.0	6.3
	.0	.0	.0	1.0	.0	1.0	4.2	1.0	.0	4.2
	3.1	2.6	8.9	8.1	8.9	14.1	24.7	14.1	.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	89	88	86	80	77	75	75	80.5	102
06E09	92	91	90	84	80	78	77	84.3	138
12E15	87	86	85	82	79	76	76	82.1	114
18E21	85	84	83	81	76	74	73	80.4	149
TOT	92	90	87	82	77	75	73	81.9	503

TABLE 16

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	32.1	42.9	86	28
06E09	.0	.0	23.5	35.3	29.4	11.8	78	34
12E15	.0	.0	.0	11.8	52.9	35.3	87	34
18E21	.0	.0	.0	66.7	33.3	.0	80	6
TOT	0	0	8	27	39	28	83	102

FEBRUARY

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1870-1973

AREA 0011 SOUTH CENTRAL JAVA
7.8S 109.9E

TABLE 17

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

AIR-SEA TMP DIF	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
7/8	.0	.0	1.6	.0	1	.0	1.6
6	.0	.0	.0	1.6	1	.0	1.6
5	.0	.0	.0	1.6	1	.0	1.6
4	.0	.0	3.2	.0	2	.0	3.2
3	.0	3.2	3.2	.0	4	.0	6.3
2	.0	1.6	1.6	.0	2	.0	3.2
1	.0	1.6	3.2	.0	3	.0	4.8
0	.0	12.7	3.2	.0	10	.0	15.9
-1	.0	6.3	4.8	.0	7	.0	11.1
-2	3.2	11.1	1.6	.0	10	.0	15.9
-3	.0	12.7	.0	.0	8	.0	12.7
-4	3.2	12.7	.0	.0	10	.0	15.9
-6	.0	1.6	.0	.0	1	.0	1.6
-7/-8	1.6	3.2	.0	.0	3	.0	4.8
TOTAL	5	42	14	2	63	0	63
PCT	7.9	66.7	22.2	3.2	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	6.7	.0	.0	.0	6.7
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	1.7	6.7	.0	.0	.0	8.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	6.7	.0	.0	.0	.0	6.7
3-4	.0	11.7	.0	.0	.0	.0	11.7
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	18.3	.0	.0	.0	.0	18.3

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	.0	.0	.0	.0	.0	.0
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	.0	6.7	.0	.0	.0	.0	6.7

PERIOD: (OVER-ALL) 1963-1973 FEBRUARY AREA 0011 SOUTH CENTRAL JAVA

TABLE 18 (CONT) 7.8S 109.9E

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	8.3	6.7	.0	.0	.0	.0	15.0
1-2	.0	6.7	.0	.0	.0	.0	6.7	.0	8.3	.0	.0	.0	.0	8.3
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.7	.0	.0	.0	.0	6.7	8.3	15.0	.0	.0	.0	.0	23.3

	W							NW							
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	5.0	.0	.0	.0	.0	.0	5.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	5.0	.0	.0	.0	.0	5.0	.0	6.7	.0	.0	.0	.0	6.7	
3-4	.0	6.7	.0	.0	.0	.0	6.7	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	5.0	.0	.0	.0	5.0	.0	6.7	1.7	.0	.0	.0	8.3	
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	5.0	11.7	5.0	.0	.0	.0	21.7	.0	13.3	1.7	.0	.0	.0	15.0	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	18.8	6.3	.0	.0	.0	.0	25.0	
1-2	.0	31.3	6.3	.0	.0	.0	37.5	
3-4	.0	25.0	.0	.0	.0	.0	25.0	
5-6	.0	6.3	6.3	.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	18.8	68.8	12.5	.0	.0	.0	100.0	16

PERIOD: (OVER-ALL) 1963-1973 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	.0	28.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	3
6-7	.0	.0	4.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	4
8-9	.0	.0	4.0	4.0	8.0	.0	.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	7
10-11	.0	4.0	4.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	3
12-13	.0	.0	8.0	.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	4
>13	.0	.0	.0	12.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	5
INDET	.0	0	.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
TOTAL	0	1	12	8	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	25	4
PCT	.0	4.0	48.0	32.0	12.0	.0	.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1914-1966
(OVER-ALL) 1868-1966

AREA 0011 SOUTH CENTRAL JAVA
7.7S 110.0E

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	50.0	.0	.0	.0	.0	.0	.0	50.0	.0	.0	.0	.0	.0	.0	50.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	.0	.0	.0	.0	.0	20.0	40.0	.0	.0	.0	.0	40.0
SE	33.3	.0	.0	.0	.0	.0	.0	33.3	.0	33.3	.0	.0	.0	.0	66.7
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	25.8	.0	.0	.0	.0	100.0
W	25.8	.0	.0	.0	.0	.0	.0	25.8	.0	.0	.0	.0	.0	.0	61.3
NW	18.5	.0	.0	.0	.0	.0	.0	18.5	14.8	.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	33.3	33.3	.0	.0	.0	.0	33.3
TOT PCT	15.6	.0	.0	.0	.0	.0	.0	15.6	9.4	18.8	.0	.0	.0	.0	42.5
TOT OBS:	32														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER 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	12.5	.0	.0	.0	.0	.0	.0	12.5	.0	.0	.0	.0	.0	.0	87.5
06E09	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.3	.0	.0	.0	.0	85.7
12E15	50.0	.0	.0	.0	.0	.0	.0	50.0	.0	40.0	.0	.0	.0	.0	50.0
18E21	14.3	.0	.0	.0	.0	.0	.0	14.3	42.9	14.3	.0	.0	.0	.0	28.6
TOT PCT	15.6	.0	.0	.0	.0	.0	.0	15.6	9.4	18.8	.0	.0	.0	.0	62.5
TOT OBS:	32														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.4	6.5	.1	.0	.0	.0		8.0	5.8	10.5	.0	3.4	4.8	4.2	.0	12.9	12.9
NE	1.5	3.4	.1	.0	.0	.0		5.1	5.0	11.0	.0	6.0	.0	1.4	.0	6.5	6.7
E	.8	6.6	.7	.0	.0	.0		8.2	6.3	8.0	.0	15.5	2.9	9.9	.0	6.5	5.8
SE	2.1	6.9	.6	.0	.0	.0		9.6	6.5	8.0	.0	9.5	11.5	12.0	.0	11.3	5.0
S	2.8	2.8	.3	.0	.0	.0		5.9	4.9	3.0	.0	6.0	20.2	4.2	.0	2.4	1.7
SW	2.5	9.4	1.7	.0	.0	.0		13.7	6.9	7.0	.0	21.6	25.0	14.8	.0	5.6	9.2
W	4.9	13.2	6.5	.6	.0	.0		25.1	8.5	26.0	75.0	24.1	30.8	26.1	100.0	20.2	22.5
NW	2.7	10.6	3.5	.0	.0	.0		16.8	7.8	18.5	25.0	5.2	2.9	20.4	.0	23.4	27.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.6							7.6	.0	8.0	.0	8.6	1.9	7.0	.0	11.3	8.3
TOT OBS	94	211	48	2	0	0	355		6.5	50	1	58	52	71	1	62	60
TOT PCT	26.5	59.4	13.5	.6	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	5.5	2.5	.0	.0	.0		8.0	5.8	10.3	4.1	4.2	12.9
NE	3.9	1.1	.0	.0	.0		5.1	5.0	10.8	3.2	1.4	6.6
E	5.6	2.5	.0	.0	.0		8.2	6.3	7.8	9.5	9.7	6.1
SE	4.9	4.6	.0	.0	.0		9.6	6.5	7.8	10.5	11.8	8.2
S	4.2	1.7	.0	.0	.0		5.9	4.9	2.9	12.7	4.2	2.0
SW	7.5	5.8	.4	.0	.0		13.7	6.9	6.9	23.2	14.6	7.4
W	10.0	12.5	2.7	.0	.0		25.1	8.5	27.0	27.3	27.1	21.3
NW	7.3	8.7	.8	.0	.0		16.8	7.8	18.6	4.1	20.1	25.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	7.6						7.6	.0	7.8	5.5	6.9	9.8
TOT OBS	201	140	14	0	0	355		6.5	51	110	72	122
TOT PCT	56.6	39.4	3.9	.0	.0		100.0		100.0	100.0	100.0	100.0

MARCH

PERIOD: (PRIMARY) 1914-1966
(OVER-ALL) 1868-1966

AREA 0011 SOUTH CENTRAL JAVA
7.7S 110.0E

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	7.8	19.6	60.8	11.8	.0	.0	.0	6.3	100.0	51
06&09	5.5	20.9	59.1	12.7	1.8	.0	.0	6.7	100.0	110
12&15	6.9	19.4	58.3	15.3	.0	.0	.0	6.7	100.0	72
18&21	9.8	16.4	59.8	13.9	.0	.0	.0	6.4	100.0	122
TOT	27	67	211	48	2	0	0	6.5		355
PCT	7.6	18.9	59.4	13.5	.6	.0	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	5.4		8.0
NE	.0	.0	.0	.0		.0
E	3.6	3.6	3.6	3.6		4.2
SE	.0	.0	.0	3.6		8.0
S	.0	.0	.0	.0		.0
SW	.0	7.1	7.1	3.6		5.4
W	.0	3.6	6.3	17.9		7.2
NW	3.6	.0	11.6	5.4		6.2
VAR	.0	.0	.0	.0		.0
CALM	.0	3.6	3.6	3.6		5.6
TOT OBS	2	5	9	12	28	6.1
TOT PCT	7.1	17.9	32.1	42.9	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	2.7	.0	.0	.0	2.7	.0	.0	.0	.0	.0	.0	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
E	.0	.0	.0	.0	3.6	.0	3.6	.0	.0	.0	7.1	
SE	.0	.0	.0	.0	.0	3.6	.0	.0	.0	.0	.0	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
SW	.0	.0	.0	3.6	3.6	.0	.0	.0	.0	.0	10.7	
W	7.1	.0	3.6	3.6	.0	3.6	.0	.0	.0	.0	9.8	
NW	4.5	.0	.0	.0	.9	3.6	.0	.0	.0	.0	11.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	3.6	.0	.0	.0	7.1	
TOT OBS	4	0	1	2	3	3	2	0	0	0	13	28
TOT PCT	14.3	.0	3.6	7.1	10.7	10.7	7.1	.0	.0	.0	46.4	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >500YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
= OR >3500	.0	3.6	7.1	7.1	7.1	7.1	7.1	7.1
= OR >2000	10.7	14.3	17.9	17.9	17.9	17.9	17.9	17.9
= OR >1000	17.9	25.0	28.6	28.6	28.6	28.6	28.6	28.6
= OR >600	25.0	32.1	35.7	35.7	35.7	35.7	35.7	35.7
= OR >300	28.6	35.7	39.3	39.3	39.3	39.3	39.3	39.3
= OR >150	28.6	35.7	39.3	39.3	39.3	39.3	39.3	39.3
= OR > 0	28.6	35.7	42.9	50.0	50.0	53.6	53.6	53.6
TOTAL	8	10	12	14	14	15	15	15

TOTAL NUMBER OF OBS: 28 PCT FREQ NH <5/8: 46.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
7.1	10.7	10.7	7.1	10.7	3.6	14.3	14.3	7.1 14.3	28

PERIOD: (PRIMARY) 1914-1966
(OVER-ALL) 1868-1966

AREA 0011 SOUTH CENTRAL JAVA
7.7S 110.0E

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	3.1	.0	.0	.0	3.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	3.1	.0	.0	3.1	
	TOT %	.0	.0	.0	.0	.0	.0	3.1	3.1	.0	.0	6.3	
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	3.1	3.1	.0	.0	6.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	3.1	3.1	.0	.0	6.3	
2<5	PCP	2.3	.0	.0	.0	.0	.0	.0	.8	.0	.0	3.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	3.1	
	TOT %	2.3	.0	.0	.0	.0	.0	.0	.8	.0	3.1	6.3	
5<10	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	2.3	.0	3.1	.0	.0	.0	.0	.8	.0	.0	6.3	
	TOT %	2.3	.0	3.1	.0	.0	.0	.0	.8	.0	.0	6.3	
10+	PCP	.0	.0	.0	3.1	.0	.0	.0	.0	.0	.0	3.1	
	NO PCP	.0	.0	12.5	6.3	.0	15.6	18.0	13.3	.0	6.3	71.9	
	TOT %	.0	.0	12.5	9.4	.0	15.6	18.0	13.3	.0	6.3	75.0	
	TOT OBS												32
	TOT PCT	4.7	.0	15.6	9.4	.0	15.6	24.2	21.1	.0	9.4	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	.6	.6	.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 %	.0	.0	.0	.0	.0	.0	.6	.6	.0	.0	1.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	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	.6	.6	.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 %	.0	.0	.0	.0	.0	.0	.6	.6	.0	.0	1.2	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.6	.0	.6	1.2	
	4-10	.4	.0	.6	.0	.0	.0	.0	.7	.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 %	.4	.0	.6	.0	.0	.0	.0	1.3	.0	.6	2.9	
5<10	0-3	.0	.0	.0	.0	.0	.0	.6	.6	.0	.6	1.7	
	4-10	1.3	.6	1.4	.0	.0	.0	2.0	1.6	.0		6.9	
	11-21	.0	.0	.0	.0	.0	.6	.9	.9	.0		2.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	1.3	.6	1.4	.0	.0	.6	3.5	3.0	.0	.6	11.0	
10+	0-3	1.4	1.7	.6	1.4	3.2	1.7	2.6	1.2	.0	5.8	19.7	
	4-10	5.2	3.2	8.4	9.0	2.6	9.8	7.9	10.5	.0		56.6	
	11-21	.0	.0	.3	.3	.0	1.4	3.5	2.0	.0		7.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	6.6	4.9	9.2	10.7	5.8	13.0	14.0	13.7	.0	5.8	83.8	
	TOT OBS												173
	TOT PCT	8.4	5.5	11.3	10.7	5.8	13.6	18.6	19.2	.0	6.9	100.0	

MARCH

PERIOD: (PRIMARY) 1914-1966
(OVER-ALL) 1868-1966

AREA 0011 SOUTH CENTRAL JAVA
7.7S 110.0E

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	12.5	.0	12.5	.0	12.5	.0	.0	.0	.0	.0	37.5	62.5	8
06&09	.0	.0	.0	28.6	14.3	14.3	.0	.0	.0	.0	57.1	42.9	7
12&15	25.0	.0	.0	.0	12.5	25.0	.0	.0	.0	.0	62.5	37.5	8
18&21	20.0	.0	.0	.0	.0	.0	40.0	.0	.0	.0	60.0	40.0	5
TOT	4	0	1	2	3	3	2	0	0	0	15	13	28
PCT	14.3	.0	3.6	7.1	10.7	10.7	7.1	.0	.0	.0	53.6	46.4	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	4.0	.0	8.0	88.0	25
06&09	.0	.0	.0	2.1	4.3	93.6	47
12&15	2.5	.0	2.5	2.5	7.5	85.0	40
18&21	1.6	.0	.0	4.9	19.7	73.8	61
TOT	2	0	2	5	19	145	173
PCT	1.2	.0	1.2	2.9	11.0	83.8	100.0

TABLE 12

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

HOUR (GMT)	<150 <500YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	12.5	25.0	25.0	12.5	62.5	8
06&09	.0	.0	28.6	28.6	42.9	7
12&15	25.0	25.0	25.0	37.5	37.5	8
18&21	20.0	20.0	40.0	20.0	40.0	5
TOT	4	5	8	7	13	28
PCT	14.3	17.9	28.6	25.0	46.4	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	.0	5.0	.0	.0	1	5.0
85/89	.0	.0	.0	.0	5.0	10.0	5.0	.0	4	20.0
80/84	.0	.0	.0	.0	.0	30.0	45.0	.0	15	75.0
TOTAL	0	0	0	0	1	9	10	0	20	100.0
PCT	.0	.0	.0	.0	5.0	45.0	50.0	.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.0	5.0	.0	.0	.0	.0	.0	.0	.0
85/89	.0	.0	10.0	.0	.0	10.0	.0	.0	.0	.0
80/84	.0	.0	10.0	10.0	.0	10.0	20.0	20.0	.0	5.0
PCT	.0	.0	25.0	10.0	.0	20.0	20.0	20.0	.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
00&03	88	87	85	82	78	77	77	81.6	51
06&09	91	89	88	84	79	77	77	83.7	108
12&15	86	85	85	82	78	77	77	82.0	72
18&21	85	84	84	81	78	76	76	80.8	122
TOT	91	88	86	82	78	77	76	82.0	353

TABLE 16

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	100.0	.0	.0	76	4
06&09	.0	.0	16.7	66.7	16.7	.0	74	6
12&15	.0	.0	.0	16.7	83.3	.0	84	6
18&21	.0	.0	.0	.0	100.0	.0	83	4
TOT	0	0	1	9	10	0	79	20

MARCH

PERIOD: (PRIMARY) 1914-1966
(OVER-ALL) 1868-1966

AREA 0011 SOUTH CENTRAL JAVA
7.7S 110.0E

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	.0	3.3	1	.0	3.3
5	.0	.0	3.3	.0	1	.0	3.3
4	.0	.0	3.3	.0	1	.0	3.3
2	.0	.0	6.7	.0	2	.0	6.7
1	.0	6.7	.0	.0	2	.0	6.7
0	.0	10.0	.0	.0	3	.0	10.0
-1	.0	6.7	3.3	.0	3	.0	10.0
-2	3.3	16.7	.0	.0	6	.0	20.0
-3	.0	16.7	.0	.0	5	.0	16.7
-4	.0	13.3	.0	.0	4	.0	13.3
-5	6.7	.0	.0	.0	2	.0	6.7
TOTAL	3	21	5	1	30	0	30
PCT	10.0	70.0	16.7	3.3	100.0		100.0

PERIOD: (OVER-ALL) 1962-1966

TABLE 18

PCT FREQ OF 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) 1963-1966

MARCH

TABLE 16 (CONT)

AREA 0011 SOUTH CENTRAL JAVA
7.7S 110.0E

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	14.3	.0	.0	.0	.0	14.3
1-2	.0	14.3	.0	.0	.0	.0	14.3
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	28.6	.0	.0	.0	.0	28.6

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	14.3	.0	.0	.0	.0	.0	14.3
1-2	.0	14.3	.0	.0	.0	.0	14.3
3-4	.0	.0	14.3	.0	.0	.0	4.3
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	14.3	14.3	14.3	.0	.0	.0	42.9

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	28.6	.0	.0	.0	28.6	
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	28.6	.0	.0	.0	28.6	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	14.3	14.3	.0	.0	.0	.0	28.6	
1-2	.0	28.6	.0	.0	.0	.0	28.6	
3-4	.0	.0	42.9	.0	.0	.0	42.9	
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	14.3	42.9	42.9	.0	.0	.0	100.0	7

PERIOD: (OVER-ALL) 1950-1966

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	10.5	.0	10.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	2
6-7	.0	.0	10.5	10.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	4
8-9	.0	.0	.0	5.3	5.3	5.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	26.3	5.3	10.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	1
TOTAL	7	1	6	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	19	3
PCT	36.8	5.3	31.6	15.8	5.3	5.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1914-1967
(OVER-ALL) 1855-1967

AREA 0011 SOUTH CENTRAL JAVA
7.8S 110.1E

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	.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	2.5	.0	.0	.0	.0	.0	2.5	.0	13.8	7.5	.0	.0		.0	76.3
SE	10.8	13.5	.0	.0	.0	.0	.0	24.3	.0	6.8	2.7	.0	.0		.0	71.6
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	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	3.8	5.8	.0	.0	.0	.0	.0	9.6	.0	7.7	3.8	.0	.0		.0	80.8
TOT OBS:	52															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	7.7	7.7	.0	.0	.0	.0	.0	15.4	.0	.0	.0	.0	.0		.0	84.6
06609	.0	9.1	.0	.0	.0	.0	.0	9.1	.0	.0	9.1	.0	.0		.0	81.8
12615	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.1	9.1	.0	.0		.0	81.8
18621	5.0	5.0	.0	.0	.0	.0	.0	10.0	.0	20.0	.0	.0	.0		.0	75.0
TOT PCT	3.6	5.5	.0	.0	.0	.0	.0	9.1	.0	9.1	3.6	.0	.0		.0	80.0
TOT OBS:	55															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	.5	.0	.0	.0		5.4	5.9	12.0	.0	4.1	1.6	2.3	.0	5.8	6.9
NE	1.1	3.9	1.0	.0	.0	.0		6.0	7.0	14.0	.0	5.8	.8	6.4	.0	4.5	4.2
E	1.9	16.9	12.2	.2	.0	.0		31.2	9.8	33.3	50.0	34.9	27.8	23.8	25.0	33.5	33.3
SE	2.2	19.5	10.2	.7	.0	.0		32.6	9.4	17.7	50.0	31.4	42.1	39.5	75.0	32.0	31.9
S	1.1	3.0	.2	.1	.0	.0		4.5	6.1	5.0	.0	4.7	7.1	6.7	.0	1.2	2.8
SW	.5	3.5	.6	.0	.0	.0		4.7	8.0	2.0	.0	3.5	11.1	9.6	.0	2.1	.7
W	1.5	3.4	.4	.0	.0	.0		5.3	6.0	6.0	.0	4.1	4.0	6.4	.0	7.6	3.5
NW	1.8	2.8	.4	.0	.0	.0		5.0	5.7	7.3	.0	4.7	4.0	2.9	.0	4.9	6.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.3							5.3	.0	2.7	.0	7.0	1.6	2.3	.0	8.5	9.7
TOT OBS	78	266	120	5	0	0	469		8.1	75	3	86	63	86	2	82	72
TOT PCT	16.6	56.7	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	3.6	1.8	.0	.0	.0		5.4	5.9	11.5	3.0	2.3	6.3
NE	3.1	2.8	.0	.0	.0		6.0	7.0	13.5	3.7	6.3	4.2
E	9.2	19.5	2.3	.2	.0		31.2	9.8	34.0	31.9	23.9	33.4
SE	11.1	18.1	3.2	.2	.0		32.6	9.4	18.9	35.9	40.3	32.0
S	3.0	1.2	.2	.0	.0		4.5	6.1	4.8	5.7	7.5	1.9
SW	1.6	2.9	.2	.0	.0		4.7	8.0	1.9	6.7	9.4	1.5
W	3.2	2.1	.0	.0	.0		5.3	6.0	5.8	4.0	6.3	5.7
NW	3.2	1.8	.0	.0	.0		5.0	5.7	7.1	4.4	2.8	5.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.3						5.3	.0	2.6	4.7	2.3	9.1
TOT OBS	204	235	28	2	0	469		8.1	78	149	88	154
TOT PCT	43.5	50.1	6.0	.4	.0		100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1914-1967
(OVER-ALL) 1855-1967

AREA 0011 SOUTH CENTRAL JAVA
7.85 110.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
				WIND SPEED (KNOTS)						
00603	2.6	16.7	59.0	21.8	.0	.0	.0	7.5	100.0	78
06609	4.7	10.7	57.0	26.8	.7	.0	.0	8.2	100.0	149
12615	2.3	10.2	59.1	26.1	2.3	.0	.0	8.7	100.0	[illegible]
18621	9.1	9.7	53.9	26.0	1.3	.0	.0	8.0	100.0	154
TOT	25	53	266	120	5	0	0	8.1		469
PCT	5.3	11.3	56.7	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	.0	.0	.0	3.1		8.0
NE	.0	.0	.0	2.1		8.0
E	20.8	3.1	8.3	7.3		3.3
SE	.0	13.5	22.9	1.0		5.1
S	.0	.0	5.2	3.1		6.7
SW	.0	.0	1.0	.0		6.0
W	.0	.0	.0	.0		.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	8.3	.0	.0	.0		1.0
TOT OBS	7	4	9	4	24	4.3
TOT PCT	29.2	16.7	37.5	16.7	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	
NE	.0	.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	
E	.0	.0	.0	.0	7.3	.0	.0	.0	.0	.0	32.3	
SE	.0	.0	.0	.0	2.1	4.2	1.0	.0	.0	.0	30.2	
S	.0	.0	.0	.0	2.1	3.1	3.1	.0	.0	.0	.0	
SW	.0	.0	.0	.0	.0	1.0	.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	8.3	
TOT OBS	0	0	1	0	3	2	1	0	0	0	17	24
TOT PCT	.0	.0	4.2	.0	12.5	8.3	4.2	.0	.0	.0	70.8	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	.0	.0	4.0	4.0	4.0	4.0	4.0	4.0
* OR >2000	4.0	4.0	12.0	12.0	12.0	12.0	12.0	12.0
* OR >1000	16.0	16.0	24.0	24.0	24.0	24.0	24.0	24.0
* OR >600	16.0	16.0	24.0	24.0	24.0	24.0	24.0	24.0
* OR >300	20.0	20.0	28.0	28.0	28.0	28.0	28.0	28.0
* OR >150	20.0	20.0	28.0	28.0	28.0	28.0	28.0	28.0
* OR > 0	20.0	20.0	28.0	28.0	28.0	28.0	28.0	28.0
TOTAL	5	5	7	7	7	7	7	7

TOTAL NUMBER OF OBS: 25 PCT FREQ NH <5/8: 72.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
19.2	7.7	11.5	26.9	7.7	7.7	7.7	3.8	7.7	.0	26

APRIL

PERIOD: (PRIMARY) 1914-1967
(OVER-ALL) 1855-1967

AREA 0011 SOUTH CENTRAL JAVA
7.8S 110.1E

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	.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	1.9	.0	.0	.0	.0	.0	.0	1.9	
	NO PCP	1.0	1.0	.0	.5	1.4	.0	.0	.0	.0	.0	3.8	
	TOT %	1.0	1.0	.0	2.4	1.4	.0	.0	.0	.0	.0	5.8	
5<10	PCP	.0	.0	1.0	6.7	.0	.0	.0	.0	.0	.0	7.7	
	NO PCP	.0	.0	15.9	7.2	.0	.0	.0	1.9	.0	.0	25.0	
	TOT %	.0	.0	16.9	13.9	.0	.0	.0	1.9	.0	.0	32.7	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	1.4	2.9	21.6	19.2	2.4	1.0	3.4	.0	.0	9.6	61.5	
	TOT %	1.4	2.9	21.6	19.2	2.4	1.0	3.4	.0	.0	9.6	61.5	
	TOT OBS												52
	TOT PCT	2.4	3.8	38.5	35.6	3.8	1.0	3.4	1.9	.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	.4	.0	.0	.1	.3	.0	.2	.2	.0	.0	1.2	
	4-10	.2	.2	.0	.4	.0	.0	.6	.2	.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 %	.6	.2	.0	.5	.3	.0	.8	.4	.0	.0	2.7	
5<10	0-3	.2	.0	.2	.2	.0	.0	.4	.2	.0	.4	1.6	
	4-10	.8	.0	1.6	1.2	.0	.0	.6	.6	.0		4.7	
	11-21	.0	.0	2.8	2.6	.0	.0	.2	.2	.0		5.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	1.0	.0	4.6	4.0	.0	.0	1.2	1.0	.0	.4	12.2	
10+	0-3	.6	.8	1.2	.8	1.2	.6	.4	1.2	.0	5.9	12.5	
	4-10	3.7	3.8	15.6	15.9	2.5	5.3	3.2	2.5	.0		52.5	
	11-21	.3	.5	10.2	7.1	.0	1.2	.6	.2	.0		20.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	4.6	5.1	27.0	23.7	3.6	7.1	4.2	3.9	.0	5.9	85.1	
	TOT OBS												255
	TOT PCT	6.2	5.3	31.6	28.2	3.9	7.1	6.2	5.3	.0	6.3	100.0	

APRIL

PERIOD: (PRIMARY) 1914-1967
(OVER-ALL) 1855-1967

AREA 0011 SOUTH CENTRAL JAVA
7.8S 110.1E

TABLE 10

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

HOUR (GMT)	000 149	150 299	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	28.6	14.3	14.3	.0	.0	.0	57.1	42.9	7
06Z09	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	4
12Z15	.0	.0	.0	.0	.0	16.7	.0	.0	.0	.0	16.7	83.3	6
18Z21	.0	.0	11.1	.0	11.1	.0	.0	.0	.0	.0	22.2	77.8	9
TOT	0	0	1	0	3	2	1	0	0	0	7	19	26
PCT	.0	.0	3.8	.0	11.5	7.7	3.8	.0	.0	.0	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
00Z03	.0	.0	.0	6.8	9.1	84.1	44
06Z09	.0	.0	.0	.0	7.2	92.8	69
12Z15	.0	.0	.0	2.0	15.7	82.4	51
18Z21	.0	.0	.0	3.2	14.9	81.9	94
TOT	0	0	0	7	31	220	258
PCT	.0	.0	.0	2.7	12.0	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
00Z03	.0	.0	28.6	28.6	42.9	7
06Z09	.0	.0	.0	.0	100.0	4
12Z15	.0	.0	.0	16.7	83.3	6
18Z21	.0	12.5	12.5	12.5	75.0	8
TOT	0	1	3	4	18	25
PCT	.0	4.0	12.0	16.0	72.0	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	12.9	3.2	.0	5	16.1
80/84	.0	.0	0	.0	3.2	25.8	45.2	9.7	26	83.9
TOTAL	0	0	0	0	1	12	15	3	31	100.0
PCT	.0	.0	.0	.0	3.2	38.7	48.4	9.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	3.2	9.7	.0	.0	.0	.0	.0	3.2
	2.4	4.8	45.2	17.7	4.0	.0	.0	3.2	.0	6.5
	2.4	4.8	48.4	27.4	4.0	.0	.0	3.2	.0	9.7

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00Z03	88	87	84	82	77	76	76	81.7	78
06Z09	92	91	88	84	81	79	78	84.2	144
12Z15	88	86	86	83	81	79	79	82.9	87
18Z21	85	84	84	82	78	77	77	81.4	154
TOT	92	89	87	82	79	77	76	82.6	463

TABLE 16

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	25.0	62.5	12.5	83	8
06Z09	.0	.0	14.3	71.4	14.3	.0	74	7
12Z15	.0	.0	.0	57.1	28.6	14.3	81	7
18Z21	.0	.0	.0	18.2	63.6	18.2	86	11
TOT	0	0	1	13	15	4	81	33

PERIOD: (PRIMARY) 1914-1967
(OVER-ALL) 1855-1967

AREA 0011 SOUTH CENTRAL JAVA
7.85 110.1E

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	77 80	81 84	85 88	TOT	W FOG	WO FOG
4	.0	.0	2.1	1	.0	2.1
3	.0	.0	2.1	1	.0	2.1
2	.0	6.3	4.2	5	2.1	8.3
1	.0	6.3	2.1	4	.0	8.3
0	4.2	20.8	2.1	13	2.1	25.0
-1	2.1	8.3	.0	5	.0	10.4
-2	4.2	14.6	.0	9	.0	18.8
-3	.0	4.2	.0	2	.0	4.2
-4	4.2	4.2	.0	4	.0	8.3
-5	2.1	4.2	.0	3	.0	6.3
-6	2.1	.0	.0	1	.0	2.1
TOTAL	9	33	6	48	2	46
PCT	18.8	68.8	12.5	100.0	4.2	95.8

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	6.3	.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	.0	.0	6.3	.0	.0	.0	6.3

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	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

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	33.3	.0	.0	.0	33.3
5-6	.0	8.3	8.3	.0	.0	.0	16.7
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	8.3	41.7	.0	.0	.0	50.0

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	8.3	.0	.0	.0	8.3
3-4	.0	.0	.0	.0	.0	.0	.0
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	.0	.0	16.7	.0	.0	.0	16.7

APRIL

PERIOD: (OVER-ALL) 1963-1967

AREA 0011 SOUTH CENTRAL JAVA
7.8S 110.1E

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	6.3	.0	.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	6.3	.0	.0	.0	.0	6.3

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	.0	.0	.0	.0	2.1

W

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

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	91.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.3	.0	.0	.0	.0	.0	8.3	
1-2	.0	16.7	8.3	.0	.0	.0	25.0	
3-4	.0	.0	41.7	.0	.0	.0	41.7	
5-6	.0	8.3	16.7	.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	8.3	25.0	66.7	.0	.0	.0	100.0	12

PERIOD: (OVER-ALL) 1950-1967

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	4.5	22.7	13.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	4
6-7	.0	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	2
8-9	.0	.0	.0	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
10-11	.0	.0	.0	4.5	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
12-13	.0	.0	4.5	.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	22.7	9.1	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	1
TOTAL	5	4	7	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	3
PCT	22.7	18.2	31.8	22.7	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1913-1969
(OVER-ALL) 1955-1969

AREA 0011 SOUTH CENTRAL JAVA
7.75 110.1E

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 BLWG	DUST SNOW	NO SIG WEA
N	100.0	.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	100.0
E	3.4	.0	.0	.0	.0	.0	.0	3.4	.0	3.4	.0	.0	.0	.0	96.6
SE	8.7	.0	.0	.0	.0	.0	.0	8.7	.0	8.7	.0	.0	.0	.0	91.3
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	50.0	.0	.0	.0	.0	50.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	100.0	.0	.0	.0	.0	.0	100.0	.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	7.4	3.7	.0	.0	.0	.0	.0	11.1	.0	7.4	.0	.0	.0	.0	85.2
TOT OBS:	27														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER 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	10.0	.0	.0	.0	.0	.0	10.0	.0	10.0	.0	.0	.0	.0	80.0
06&09	16.7	.0	.0	.0	.0	.0	.0	16.7	.0	16.7	.0	.0	.0	.0	83.3
12&15	20.0	.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	.0	80.0
18&21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	7.1	3.6	.0	.0	.0	.0	.0	10.7	.0	7.1	.0	.0	.0	.0	85.7
TOT OBS:	28														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.8	1.7	.3	.0	.0	.0		2.9	6.2	1.6	.0	2.2	.0	2.7	25.0	3.2	5.9
NE	1.3	4.4	.6	.0	.0	.0		6.2	6.4	12.9	.0	8.2	.7	2.0	.0	5.2	9.9
E	2.5	19.8	12.7	1.0	.0	.0		36.0	9.5	44.6	75.0	41.8	30.9	25.7	50.0	35.1	36.2
SE	1.7	18.4	12.9	.9	.0	.0		34.0	10.2	20.2	8.3	24.6	47.1	41.7	25.0	37.7	32.9
S	.6	5.7	.3	.3	.0	.0		7.0	7.1	3.2	.0	2.2	11.8	12.7	.0	9.1	3.3
SW	.5	2.1	.1	.0	.0	.0		2.7	6.5	.0	.0	2.6	4.4	6.7	.0	1.3	1.3
W	.5	1.1	.2	.0	.0	.0		1.8	6.3	1.6	16.7	1.9	.7	3.3	.0	1.3	.7
NW	.9	2.9	.1	.0	.0	.0		3.9	5.9	11.3	.0	4.5	1.5	1.3	.0	3.2	3.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.5							5.5	.0	4.8	.0	11.9	2.9	4.0	.0	3.9	6.6
TOT OBS	62	244	119	10	0	0	435		8.5	62	6	67	68	75	4	77	75
TOT PCT	14.3	56.1	27.4	2.3	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.7	1.1	.0	.0	.0		2.9	6.2	1.5	1.1	3.8	4.6
NE	3.6	2.6	.0	.0	.0		6.2	6.4	11.8	4.4	1.9	7.5
E	11.8	21.8	2.2	.2	.0		35.0	9.5	47.1	36.3	26.9	35.6
SE	9.1	20.7	3.9	.2	.0		34.0	10.2	19.1	35.9	40.8	35.3
S	4.9	1.5	.3	.2	.0		7.0	7.1	2.9	7.0	12.0	6.2
SW	1.6	1.0	.1	.0	.0		2.7	6.5	.0	3.5	6.3	1.3
W	1.2	.5	.1	.0	.0		1.8	6.3	2.9	1.3	3.2	1.0
NW	2.4	1.5	.0	.0	.0		3.9	5.9	10.3	3.0	1.3	3.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.5						5.5	.0	4.4	7.4	3.8	5.2
TOT OBS	182	221	29	3	0	435		8.5	68	135	79	153
TOT PCT	41.8	50.8	6.7	.7	.0		100.0		100.0	100.0	100.0	100.0

MAY

PERIOD: (PRIMARY) 1913-1969
(OVER-ALL) 1855-1969

AREA 0011 SOUTH CENTRAL JAVA
7.7S 110.1E

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	4.4	8.8	58.8	25.0	2.9	.0	.0	8.4	100.0	68
06&09	7.4	10.4	51.1	29.6	1.5	.0	.0	8.0	100.0	135
12&15	3.8	8.9	55.7	30.4	1.3	.0	.0	8.7	100.0	79
18&21	5.2	7.2	59.5	24.8	3.3	.0	.0	8.8	100.0	153
TOT	24	38	244	119	10	0	0	8.5		435
PCT	5.5	8.7	56.1	27.4	2.3	.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	.0	.0	.0	.0		.0
NE	.0	.0	.0	.0		.0
E	12.5	8.3	.0	.0		2.2
SE	4.2	8.3	16.7	.0		4.1
S	.0	.0	16.7	.0		7.0
SW	.0	4.2	.0	.0		4.0
W	.0	12.5	.0	.0		4.0
NW	.0	16.7	.0	.0		3.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	1	3	2	0	6	4.0
TOT PCT	16.7	50.0	33.3	.0	100.0	

TABLE 6

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

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20.8	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29.2	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16.7	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.5	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16.7	
.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	6	6
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	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	.0	.0	.0	.0	.0	.0	.0	.0
* OR >1000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >600	.0	.0	.0	.0	.0	.0	.0	.0
* OR >300	.0	.0	.0	.0	.0	.0	.0	.0
* OR >150	.0	.0	.0	.0	.0	.0	.0	.0
* OR > 0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	0	0	0	0	0	0	0	0

TOTAL NUMBER OF OBS: 7 PCT FREQ NH <5/8: 100.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
.0	20.0	50.0	10.0	10.0	.0	.0	.0	10.0	.0	10

PERIOD: (PRIMARY) 1913-1969
(OVER-ALL) 1855-1969

AREA 0011 SOUTH CENTRAL JAVA
7.7S 110.1E

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
	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	1.9	1.9	.0	.0	.0	.0	.0	.0	3.7	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	1.9	1.9	.0	.0	.0	.0	.0	.0	3.7	
	PCP	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	
2<5	NO PCP	.0	1.9	1.9	.0	.0	.0	.0	.0	.0	.0	3.7	
	TOT %	3.7	1.9	1.9	.0	.0	.0	.0	.0	.0	.0	7.4	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	NO PCP	.0	.0	9.3	1.9	.0	.0	3.7	.0	.0	.0	14.	
	TOT %	.0	.0	9.3	1.9	.0	.0	3.7	.0	.0	.0	14.8	
	PCP	.0	.0	.0	.0	.0	.0	.0	3.7	.0	.0	3.7	
10+	NO PCP	.0	.0	41.7	17.6	7.4	.9	2.8	.0	.0	.0	70.4	
	TOT %	.0	.0	41.7	17.6	7.4	.9	2.8	3.7	.0	.0	74.1	
	TOT OBS												27
	TOT PCT	3.7	1.9	54.6	21.3	7.4	.9	6.5	3.7	.0	.0	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.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	.3	.3	.0	.0	.0	.0	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.6	
	0-3	1.3	.0	.0	.0	.6	.0	.0	.0	.0	.0	1.9	
2<5	4-10	.3	.3	.3	.0	.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 %	1.6	.3	.3	.0	.6	.0	.0	.3	.0	.0	3.2	
	0-3	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.6	
5<10	4-10	.6	.0	1.0	1.0	.0	.0	.0	.0	.0		2.6	
	11-21	.0	.0	2.2	.3	.0	.0	.0	.0	.0		2.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.6	.0	3.2	1.3	.0	.0	.6	.0	.0	.0	5.8	
	0-3	1.0	2.9	2.9	3.5	.6	.0	.6	1.3	.0	6.4	19.2	
10+	4-10	.6	4.2	15.7	12.2	4.8	2.7	1.8	2.9	.0		44.9	
	11-21	.0	.0	11.7	14.6	.0	.0	.0	.0	.0		26.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	1.6	7.1	30.3	30.3	5.4	2.7	2.4	4.2	.0	6.4	90.4	
	TOT OBS												156
	TOT PCT	3.8	7.4	34.1	31.9	6.1	2.7	3.0	4.5	.0	6.4	100.0	

MAY

PERIOD: (PRIMARY) 1913-1969
(OVER-ALL) 1855-1969

AREA 0011 SOUTH CENTRAL JAVA
7.7S 110.1E

TABLE 10

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

HOUR (GMT)	000 149	150 299	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	.0	.0	.0	.0	.0	.0	.0	100.0	4
06Z09	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	3
12Z15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	1
18Z21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	1
TOT	0	0	0	0	0	0	0	0	0	0	0	9	9
PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00Z03	.0	.0	.0	.0	6.9	93.1	29
06Z09	.0	.0	2.4	2.4	.0	95.2	42
12Z15	.0	.0	.0	6.7	6.7	86.7	30
18Z21	.0	.0	.0	3.6	8.9	87.5	56
TOT	0	0	1	5	9	142	157
PCT	.0	.0	.6	3.2	5.7	90.4	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
00Z03	.0	.0	.0	.0	100.0	3
06Z09	.0	.0	.0	.0	100.0	3
12Z15	.0	.0	.0	.0	100.0	1
18Z21	.0	.0	.0	.0	.0	0
TOT	0	0	0	0	7	7
PCT	.0	.0	.0	.0	100.0	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	22.2	.0	.0	2	22.2
80/84	.0	.0	.0	.0	.0	11.1	55.6	11.1	7	77.8
TOTAL	0	0	0	0	0	3	5	1	9	100.0
PCT	.0	.0	.0	.0	.0	33.3	55.6	11.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	11.1	.0	2.8	8.3	.0	.0	.0
	.0	.0	36.1	8.3	22.2	.0	.0	11.1	.0	.0
	.0	.0	36.1	19.4	22.2	2.8	8.3	11.1	.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
00Z03	86	85	85	82	78	75	75	81.6	66
06Z09	90	89	87	83	80	79	79	83.4	125
12Z15	85	84	84	8.	80	77	77	81.9	73
18Z21	85	84	83		77	76	75	80.7	148
TOT	90	88	86	82	79	76	75	81.9	412

TABLE 16

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	.0	75.0	25.0	88	4
06Z09	.0	.0	.0	100.0	.0	.0	74	3
12Z15	.0	.0	.0	100.0	.0	.0	75	1
18Z21	.0	.0	.0	.0	100.0	.0	87	2
TOT	0	0	0	4	5	1	82	10

MAY

PERIOD: (PRIMARY) 1913-1969
(OVER-ALL) 1855-1969

AREA 0011 SOUTH CENTRAL JAVA
7.75 110.1E

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	77 80	81 84	85 88	TOT	# FOG	WO FOG
1	.0	.0	3.6	1	.0	3.6
0	14.3	3.6	7.1	7	.0	25.0
-1	.0	7.1	.0	2	.0	7.1
-2	3.6	17.9	.0	6	.0	21.4
-3	.0	10.7	.0	3	.0	10.7
-4	.0	21.4	3.6	7	.0	25.0
-5	3.6	3.6	.0	2	.0	7.1
TOTAL	6	18	4	28	0	28
PCT	21.4	64.3	14.3	100.0		100.0

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

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

NE

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

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.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	.0	.0	.0	.0	.0	.0
3-4	.0	.0	20.0	.0	.0	.0	20.0
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	.0	25.0	.0	.0	.0	25.0

PERIOD: (OVER-ALL) 1963-1969 — AREA 0011 SOUTH CENTRAL JAVA 7.7S 110.1E

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	20.0	.0	.0	.0	.0	20.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	20.0	.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	40.0	.0	.0	.0	.0	40.0

SW

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	.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	5.0	.0	.0	.0	.0	5.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	15.0	.0	.0	.0	.0	15.0
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	15.0	.0	.0	.0	.0	15.0

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	20.0	.0	.0	.0	.0	20.0	
3-4	.0	.0	20.0	.0	.0	.0	20.0	
5-6	.0	20.0	20.0	.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	
								5
TOT PCT	.0	60.0	40.0	.0	.0	.0	100.0	

PERIOD: (OVER-ALL) 1953-1969

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	:
<6	16.7	16.7	16.7	16.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	3
6-7	.0	.0	.0	33.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
TOTAL	1	1	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	3
PCT	16.7	16.7	16.7	50.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1913-1969
(OVER-ALL) 1877-1969

AREA 0011 SOUTH CENTRAL JAVA
7.85 110.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	100.0	.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	100.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	2.2	.0	.0	.0	.0	.0	97.8
TOT OBS:	46														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER 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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
06E09	.0	.0	.0	.0	.0	.0	.0	.0	8.3	.0	.0	.0	.0	.0	91.7
12E15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
18E21	10.0	.0	.0	.0	.0	.0	.0	10.0	.0	.0	.0	.0	.0	.0	90.0
TOT PCT	2.1	.0	.0	.0	.0	.0	.0	2.1	2.1	.0	.0	.0	.0	.0	95.8
TOT OBS:	48														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	6.7	1.0	.0	1.6	.0	1.5	.0	.0	2.3
NE	.3	3.2	.3	.0	.0	.0		3.7	6.7	5.8	.0	2.4	1.9	1.5	.0	4.5	6.9
E	2.4	22.4	17.1	.4	.0	.0		42.3	10.3	53.4	30.0	48.8	31.7	35.6	50.0	43.3	43.1
SE	2.4	17.9	17.5	.4	.0	.0		38.2	10.9	26.4	50.0	33.7	49.0	45.6	33.3	38.1	35.4
S	.4	3.0	.5	.0	.0	.0		4.0	7.3	1.0	.0	2.4	6.7	5.1	16.7	3.7	3.8
SW	.4	1.9	.3	.0	.0	.0		2.5	6.6	.0	20.0	1.6	6.7	4.4	.0	.0	1.5
W	.1	.9	.7	.0	.0	.0		1.7	10.3	.0	.0	2.4	1.9	2.9	.0	1.5	1.5
NW	.4	2.0	.1	.0	.0	.0		2.5	7.1	8.7	.0	4.0	.0	.0	.0	1.5	2.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.0							4.0	.0	3.8	.0	3.2	1.9	4.4	.0	7.5	3.1
TOT OBS	41	195	139	3	0	0	378		9.7	52	5	63	52	68	6	67	65
TOT PCT	10.8	51.6	36.8	.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	.8	.0	.3	.0	.0		1.1	6.7	.9	.9	1.4	1.1
NE	2.1	1.6	.0	.0	.0		3.7	6.7	5.3	2.2	1.4	5.7
E	9.7	26.7	6.0	.0	.0		42.3	10.3	51.3	41.1	35.8	43.2
SE	6.2	25.9	6.2	.0	.0		38.2	10.9	28.5	40.7	44.6	36.7
S	1.9	2.1	.0	.0	.0		4.0	7.3	.9	4.3	6.1	3.8
SW	1.6	.9	.0	.0	.0		2.5	6.6	1.8	3.9	4.1	.8
W	.1	1.5	.1	.0	.0		1.7	10.3	.0	2.2	2.7	1.5
NW	1.2	1.2	.1	.0	.0		2.5	7.1	7.9	2.2	.0	1.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.0						4.0	.0	2.5	2.6	4.1	5.3
TOT OBS	104	226		0	0	378		9.7	57	115	74	132
TOT PCT	27.5	59.[illegible]	[illegible]	.0	.0		100.0		100.0	100.0	100.0	100.0

JUNE

PERIOD: (PRIMARY) 1913-1969
(OVER-ALL) 1877-1969

AREA 0011 SOUTH CENTRAL JAVA
7.8S 110.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.5	3.5	43.9	45.6	3.5	.0	.0	10.5	100.0	57
06&09	2.6	10.4	59.1	27.0	.9	.0	.0	8.8	100.0	115
12&15	4.1	6.8	48.6	40.5	.0	.0	.0	10.1	100.0	74
18&21	5.3	5.3	50.0	39.4	.0	.0	.0	9.7	100.0	132
TOT	15	26	195	139	3	0	0	9.7		378
PCT	4.0	6.9	51.6	36.8	.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	.0	.0		.0
NE	.0	.0	.0	.0		.0
E	22.8	31.5	10.9	.0		3.0
SE	3.3	7.6	6.5	.0		4.3
S	.0	.0	.0	.0		.0
SW	.0	.0	4.3	.0		5.0
W	.0	.0	4.3	.0		6.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	8.7	.0	.0	.0		1.5
TOT OBS	8	9	6	0	23	3.3
TOT PCT	34.8	39.1	26.1	.0	100.0	

TABLE 6

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

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
SE	.0	.0	.0	.0	6.5	.0	.0	.0	.0	.0	58.7	
S	.0	.0	.0	.0	2.2	.0	4.3	.0	.0	.0	10.9	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	
NW	.0	.0	.0	.0	.0	4.3	.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	.0	
TOT OBS	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.7	
TOT PCT	0	0	0	0	2	1	1	0	0	0	19	23
	.0	.0	.0	.0	8.7	4.3	4.3	.0	.0	.0	82.6	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	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
* OR >2000	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
* OR >1000	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4
* OR >600	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4
* OR >300	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4
* OR >150	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4
* OR > 0	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4
TOTAL	4	4	4	4	4	4	4	4

TOTAL NUMBER OF OBS: 23

PCT FREQ NH <5/8: 82.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
7.7	23.1	23.1	7.7	19.2	7.7	3.8	3.8	3.8	.0	26

JUNE

PERIOD: (PRIMARY) 1913-1969
(OVER-ALL) 1877-1969

AREA 0011 SOUTH CENTRAL JAVA
7.0S 110.0E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.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	.0	2.2	.0	.0	.0	.0	.0	.0	2.2	
	TOT %	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	2.2	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	2.2	50.0	28.3	4.3	6.5	2.2	.0	.0	4.3	97.8	
	TOT %	.0	2.2	50.0	28.3	4.3	6.5	7.2	.0	.0	4.3	97.8	
	TOT OBS												46
	TOT PCT	.0	2.2	50.0	30.4	4.3	6.5	2.2	.0	.0	4.3	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<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	.7	.7	
	4-10	.0	.4	.4	1.4	.0	.7	.0	.0	.0		2.5	
	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	.4	.4	1.4	.0	.7	.0	.0	.0	.7	3.6	
10+	0-3	.7	.7	1.8	1.8	1.1	.4	.0	.7	.0	4.3	11.4	
	4-10	.4	3.6	21.6	15.2	2.9	3.6	.0	1.1	.0		49.3	
	11-21	.0	.0	16.6	16.3	1.4	.7	.7	.0	.0		35.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	1.1	4.3	40.0	33.2	6.4	4.6	.7	1.8	.0	4.3	96.4	
	TOT OBS												140
	TOT PCT	1.1	4.6	40.4	34.6	6.4	5.4	.7	1.8	.0	5.0	100.0	

JUNE

PERIOD: (PRIMARY) 1913-1969
(OVER-ALL) 1877-1969

AREA 0011 SOUTH CENTRAL JAVA
7.8S 110.0E

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
00603	.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	20.0	80.0	5
06609	.0	.0	.0	.0	.0	14.3	.0	.0	.0	.0	14.3	85.7	7
12615	.0	.0	.0	.0	10.0	.0	.0	.0	.0	.0	10.0	90.0	10
18621	.0	.0	.0	.0	33.3	.0	.0	.0	.0	.0	33.3	66.7	3
TOT	0	0	0	0	2	1	1	0	0	0	4	21	25
PCT	.0	.0	.0	.0	8.0	4.0	4.0	.0	.0	.0	16.0	84.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	.0	.0	.0	.0	3.8	96.2	26
06609	.0	.0	.0	.0	2.4	97.6	41
12615	.0	.0	.0	.0	.0	100.0	30
18621	.0	.0	.0	.0	8.9	91.1	45
TOT	0	0	0	0	6	136	142
PCT	.0	.0	.0	.0	4.2	95.8	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
00603	.0	.0	.0	25.0	75.0	4
06609	.0	.0	.0	14.3	85.7	7
12615	.0	.0	.0	11.1	88.9	9
18621	.0	.0	.0	33.3	66.7	3
TOT	0	0	0	4	19	23
PCT	.0	.0	.0	17.4	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	.0	5.0	.0	.0	1	5.0
80/84	.0	.0	.0	.0	5.0	25.0	40.0	20.0	18	90.0
75/79	.0	.0	.0	.0	.0	.0	5.0	.0	1	5.0
TOTAL	0	0	0	0	1	6	9	4	20	100.0
PCT	.0	.0	.0	.0	5.0	30.0	45.0	20.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	5.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	53.8	21.3	.0	.0	5.0	.0	.0	10.0
	.0	.0	2.5	2.5	.0	.0	.0	.0	.0	.0
	.0	.0	61.3	23.8	.0	.0	5.0	.0	.0	10.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	86	85	84	80	75	72	72	79.8	56
06609	89	88	86	82	78	76	76	82.1	110
12615	88	87	83	81	76	75	75	80.6	73
18621	85	83	83	80	75	73	72	79.3	131
TOT	89	88	85	81	75	74	72	80.5	370

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	.0	.0	.0	100.0	.0	85	4
06609	.0	.0	.0	33.3	50.0	16.7	81	6
12615	.0	.0	.0	42.9	28.6	28.6	82	7
18621	.0	.0	20.0	20.0	20.0	40.0	82	5
TOT	0	0	1	6	10	5	82	22

JUNE

PERIOD: (PRIMARY) 1913-1969
(OVER-ALL) 1877-1969

AREA 0011 SOUTH CENTRAL JAVA
7.8S 110.0E

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	TOT	W FOG	WO FOG
3	.0	.0	.0	2.2	1	.0	2.2
2	.0	.0	2.2	.0	1	.0	2.2
0	.0	13.3	15.6	2.2	14	.0	31.1
-1	.0	2.2	20.0	.0	10	.0	22.2
-2	.0	4.4	28.9	.0	15	.0	33.3
-3	.0	.0	2.2	.0	1	.0	2.2
-4	.0	2.2	2.2	.0	2	.0	4.4
-7/-8	2.2	.0	.0	.0	1	.0	2.2
TOTAL	1	10	32	2	45	0	45
PCT	2.2	22.2	71.1	4.4	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	6.7	6.7	.0	.0	.0	.0	13.3
1-2	.0	6.7	.0	.0	.0	.0	6.7
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	13.3	30.0	.0	.0	.0	43.3
7	.0	.0	10.0	.0	.0	.0	10.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	26.7	40.0	.0	.0	.0	73.3

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	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	3.3	.0	.0	.0	3.3
7	.0	.0	10.0	.0	.0	.0	10.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.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	13.3	.0	.0	.0	13.3

PERIOD: (OVER-ALL) 1963-1969

JUNE

TABLE 18 (CONT)

AREA 0011 SOUTH CENTRAL JAVA
7.8S 110.0E

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

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

											NW				
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.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	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	23.5	11.8	.0	.0	.0	.0	35.3	
1-2	.0	5.9	.0	.0	.0	.0	5.9	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	11.8	29.4	.0	.0	.0	41.2	
7	.0	.0	17.6	.0	.0	.0	17.6	
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	23.5	29.4	47.1	.0	.0	.0	100.0	17

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	13.0	8.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	2
6-7	.0	4.3	8.7	4.3	4.3	.0	8.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	6
8-9	.0	.0	.0	.0	26.1	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	7
10-11	.0	.0	.0	.0	.0	4.3	.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	4.3	8.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	1
TOTAL	1	6	4	1	7	2	2	0	0	0	0	0	0	0	0	0	0	0	0	23	5
PCT	4.3	26.1	17.4	4.3	30.4	8.7	8.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1857-1972

AREA 0011 SOUTH CENTRAL JAVA
7.0S 110.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.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	2.8	2.8	.0	.0	.0	.0	.0	5.6	.0	2.8	.0	.0	.0	.0	.0	94.4
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	.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	1.7	1.7	.0	.0	.0	.0	.0	3.3	.0	1.7	.0	.0	.0	.0	.0	96.7
TOT OBS:	60															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	.0	11.8	.0	.0	.0	.0	.0	11.8	.0	.0	.0	.0	.0	.0	.0	88.2
06609	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
12615	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.0	.0	.0	.0	.0	.0	90.0
18621	5.3	.0	.0	.0	.0	.0	.0	5.3	.0	5.3	.0	.0	.0	.0	.0	94.7
TOT PCT	1.6	3.2	.0	.0	.0	.0	.0	4.8	.0	3.2	.0	.0	.0	.0	.0	93.7
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	.0	.4	.1	.0	.0	.0		.5	7.4	.6	.0	.0	.0	1.3	.0	.0	1.4
NE	.5	2.0	.6	.0	.0	.0		3.1	7.1	6.5	.0	1.9	.0	1.[illegible]	.0	3.4	4.7
E	.7	21.3	18.2	.7	.3	.0		41.3	10.9	46.3	100.0	46.0	35.7	[illegible]	50.0	44.1	36.5
SE	1.3	26.5	18.9	1.3	.3	.0		48.4	10.8	37.3	.0	47.3	59.[illegible]	55.0	50.0	46.9	48.0
S	.1	2.8	.4	.0	.0	.0		3.3	6.9	4.3	.0	2.1	4.8	3.8	.0	2.8	2.7
SW	.0	.9	.6	.0	.0	.0		1.6	11.2	3.7	.0	1.6	.0	2.5	.0	.6	.7
W	.1	.0	.0	.0	.0	.0		.1	2.0	.0	.0	.0	.0	.0	.0	.6	.0
NW	.1	.7	.0	.0	.0	.0		.8	5.6	1.2	.0	.0	.0	.0	.0	.6	3.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.8							.8	.0	.0	.0	1.1	.0	.0	.0	1.1	2.7
TOT OBS	18	264	188	10	3	0	483		10.4	81	1	94	63	80	1	89	74
TOT PCT	3.7	54.7	38.9	2.1	.6	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.3	.2	.0	.0	.0		.5	7.4	.6	.0	1.2	.6
NE	1.7	1.4	.0	.0	.0		3.1	7.1	6.4	1.1	1.9	4.0
E	7.2	29.8	3.8	.5	.0		41.3	10.9	47.0	41.9	35.8	40.6
SE	9.2	32.9	5.8	.5	.0		48.4	10.8	36.9	52.2	54.9	47.4
S	2.2	1.0	.1	.0	.0		3.3	6.9	4.3	3.2	3.7	2.8
SW	.8	.1	.6	.0	.0		1.6	11.2	3.7	1.0	2.5	.6
W	.1	.0	.0	.0	.0		.1	2.0	.0	.0	.0	.3
NW	.6	.2	.0	.0	.0		.8	5.6	1.2	.0	.0	1.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.8						.8	.0	.0	.6	.0	1.8
TOT OBS	111	317	50	5	0	483		10.4	82	157	81	163
TOT PCT	23.0	65.6	10.4	1.0	.0		100.0		100.0	100.0	100.0	100.0

JULY

PERIOD: (PRIMARY) .913-1972
(OVER-ALL) 1857-1972

AREA 0011 SOUTH CENTRAL JAVA
7.85 110.2E

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	.0	4.9	52.4	41.5	1.2	.0	.0	10.1	100.0	82
06&09	.6	2.5	54.1	38.9	3.8	.0	.0	10.8	100.0	157
12&15	.0	.0	58.0	38.3	2.5	1.2	.0	10.9	100.0	81
18&21	1.8	3.7	54.6	38.0	.6	1.2	.0	10.0	100.0	163
TOT	4	14	264	188	10	3	0	10.4		483
PCT	.8	2.9	54.7	38.9	2.1	.6	.0		100.0	

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.0		.0
NE	1.2	.0	4.9	.0		4.8
E	28.0	17.1	7.3	2.4		2.9
SE	12.2	7.3	7.3	4.9		3.9
S	.0	.0	.0	.0		.0
SW	.0	.0	7.3	.0		6.3
W	.0	.0	.0	.0		.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	17	10	11	3	41	3.6
TOT PCT	41.5	24.4	26.8	7.3	100.0	

TABLE 6

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

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NE	.0	.0	.0	.0	.0	2.4	.0	.0	.0	.0	3.7	
E	.0	.0	.0	2.4	.0	4.9	.0	.0	.0	.0	47.6	
SE	.0	.0	.0	.0	.0	2.4	7.3	.0	.0	.0	22.0	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
SW	.0	.0	.0	.0	2.4	.0	.0	.0	.0	.0	4.9	
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	0	1	1	4	3	0	0	0	32	41
TOT PCT	.0	.0	.0	2.4	2.4	9.8	7.3	.0	.0	.0	78.0	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	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
* OR >2000	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
* OR >1000	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7
* OR >600	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
* OR >300	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
* OR >150	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
* OR > 0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
TOTAL	11	11	11	11	11	11	11	11

TOTAL NUMBER OF OBS: 44

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
6.7	20.0	26.7	11.1	8.9	15.6	6.7	4.4	.0	.0	45

JULY

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1857-1972

AREA 0011 SOUTH CENTRAL JAVA
7.8S 110.2E

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	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	PCP	.	.0	1.7	.0	.0	.0	.0	.0	.0	.0	1.7	
	NO PCP	.0	.0	17.5	.8	.0	.0	.0	.0	.0	.0	18.3	
	TOT %	.0	.0	19.2	.8	.0	.0	.0	.0	.0	.0	20.0	
10+	PCP	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	1.7	
	NO PCP	.0	4.2	39.2	26.7	3.3	5.0	.0	.0	.0	.0	78.3	
	TOT %	.0	4.2	40.8	26.7	3.3	5.0	.0	.0	.0	.0	80.0	
	TOT OBS												60
	TOT PCT	.0	4.2	60.0	27.5	3.3	5.0	.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	.4	.0	.0	.0	.0	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.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	.7	.2	.0	.0	.0	.0	.0		.9	
	11-21	.0	.0	5.0	.7	.0	.0	.0	.0	.0		5.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	5.7	.9	.0	.0	.0	.0	.0	.0	6.5	
10+	0-3	.0	.9	.7	1.1	.0	.0	.2	.2	.0	1.3	4.3	
	4-10	.2	3.0	20.2	23.9	2.2	.4	.0	.4	.0		50.4	
	11-21	.0	.2	15.9	18.7	.4	1.3	.0	.0	.0		36.5	
	22+	.0	.0	.4	1.3	.0	.0	.0	.0	.0		1.7	
	TOT %	.2	4.1	37.2	45.0	2.6	1.7	.2	.7	.0	1.3	93.0	
	TOT OBS												230
	TOT PCT	.2	4.1	42.8	46.3	2.6	1.7	.2	.7	.0	1.3	100.0	

JULY

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1857-1972

AREA 0011 SOUTH CENTRAL JAVA
7.8S 110.2E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	00 999	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	15.4	7.7	15.4	.0	.0	.0	38.5	61.5	13
06&09	.0	.0	.0	.0	.0	.0	16.7	.0	.0	.0	16.7	83.3	12
12&15	.0	.0	.0	.0	.0	28.6	.0	.0	.0	.0	28.6	71.4	7
18&21	.0	.0	.0	8.3	.0	8.3	.0	.0	.0	.0	16.7	83.3	12
TOT	0	0	0	1	2	4	4	0	0	0	11	33	44
PCT	.0	.0	.0	2.3	4.5	9.1	9.1	.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	2.2	.0	8.9	88.9	45
06&09	.0	.0	.0	.0	2.7	97.3	74
12&15	.0	.0	.0	.0	7.5	92.5	40
18&21	.0	.0	.0	.0	8.1	91.9	74
TOT	0	0	1	0	15	217	233
PCT	.0	.0	.4	.0	6.4	93.1	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	.0	38.5	61.5	13
06&09	.0	.0	.0	16.7	83.3	12
12&15	.0	.0	.0	28.6	71.4	7
18&21	.0	.0	8.3	8.3	83.3	12
TOT	0	0	1	10	33	44
PCT	.0	.0	2.3	22.7	75.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	5.9	.0	2.9	.0	3	8.8
80/84	.0	.0	.0	.0	.0	20.6	8.8	.0	10	29.4
75/79	.0	.0	.0	.0	.0	2.9	44.1	11.8	20	58.8
70/74	.0	.0	.0	.0	.0	.0	.0	2.9	1	2.9
TOTAL	0	0	0	0	2	8	19	5	34	100.0
PCT	.0	.0	.0	.0	5.9	23.5	55.9	14.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	2.9	1.5	1.5	.0	2.9	.0	.0	.0	.0
	.0	2.9	12.5	11.0	.0	2.9	.0	.0	.0	.0
	.0	.0	44.9	14.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	2.9	.0	.0	.0	.0	.0
	.0	5.9	58.8	26.5	2.9	5.9	.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
00&03	86	85	84	78	74	72	72	78.2	84
06&09	90	89	85	80	76	74	73	80.5	152
12&15	83	82	82	78	75	74	74	78.6	[illegible]
18&21	83	82	82	77	73	73	71	77.5	163
TOT	90	87	84	78	74	73	71	78.7	480

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	14.3	.0	42.9	28.6	14.3	78	7
06&09	.0	.0	22.2	22.2	55.6	.0	76	9
12&15	.0	.0	.0	37.5	50.0	12.5	83	8
18&21	.0	.0	.0	15.4	61.5	23.1	85	13
TOT	0	1	2	10	19	5	81	37

JULY

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1857-1972

AREA 0011 SOUTH CENTRAL JAVA
7.8S 110.2E

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 THP DIF	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	.0	2.6	1	.0	2.6
4	.0	.0	5.1	.0	5.1	.0	4	.0	10.3
3	.0	.0	.0	5.1	.0	.0	2	.0	5.1
2	.0	2.6	5.1	5.1	.0	.0	5	.0	12.8
1	.0	.0	5.1	.0	2.6	.0	3	.0	7.7
0	.0	.0	10.3	5.1	.0	.0	6	.0	15.4
-1	.0	2.6	15.4	2.6	.0	.0	8	.0	20.5
-2	2.6	.0	7.7	5.1	.0	.0	6	.0	15.4
-3	.0	.0	5.1	.0	.0	.0	2	.0	5.1
-5	.0	2.6	2.6	.0	.0	.0	2	.0	5.1
TOTAL	1	3	22	9	3	1	39	0	39
PCT	2.6	7.7	56.4	23.1	7.7	2.6	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	.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	18.8	.0	.0	.0	18.8
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	.0	18.8	.0	.0	.0	18.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	12.5	.0	.0	.0	12.5
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	31.3	.0	.0	.0	31.3
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	43.8	.0	.0	.0	43.8

PERIOD: (OVER-ALL) 1963-1972

JULY

AREA 0011 SOUTH CENTRAL JAVA
7.8S 110.2E

TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.5	.0	.0	.0	12.5
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	25.0	.0	.0	.0	25.0
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	37.5	.0	.0	.0	37.5

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

WIND SPEED (KTS) VS SEA HEIGHT (FT)

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

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.9	17.6	5.9	11.8	17.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	4
6-7	.0	.0	.0	.0	23.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	7
8-9	.0	.0	.0	.0	5.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
10-11	.0	.0	.0	.0	5.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	.0	.0	.0	.0	5.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
TOTAL	1	3	1	2	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	5
PCT	5.9	17.6	5.9	11.8	58.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1914-1971
(OVER-ALL) 1876-1971

AREA 0011 SOUTH CENTRAL JAVA
7.7S 110.1E

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	.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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	5.3	.0	.0	.0	.0	.0	.0	5.3	.0	5.3	.0	.0	.0	.0	.0	89.3
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	2.7	.0	.0	.0	.0	.0	.0	2.7	.0	2.7	.0	.0	.0	.0	.0	94.6
TOT OBS:	37															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER 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	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.5	.0	.0	.0	.0	87.5
06&09	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
12&15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
18&21	12.5	.0	.0	.0	.0	.0	.0	12.5	.0	.0	.0	.0	.0	.0	87.5
TOT PCT	2.7	.0	.0	.0	.0	.0	.0	2.7	.0	2.7	.0	.0	.0	.0	94.6
TOT OBS:	37														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	.9	.0	.0	.0	.0		.9	6.1	1.8	.0	.0	.0	1.3	.0	2.1	.0
NE	.3	1.5	.6	.0	.0	.0		2.4	8.9	3.5	16.7	2.9	.0	.0	.0	5.0	2.3
E	1.4	15.9	15.9	.1	.0	.0		34.4	10.6	41.7	50.0	37.3	33.0	23.3	50.0	29.3	43.0
SE	1.0	23.5	27.9	.9	.0	.0		53.2	11.4	46.1	33.3	48.2	53.8	65.0	50.0	57.1	47.7
S	.6	3.2	2.0	.0	.0	.0		5.9	9.1	4.4	.0	4.3	8.5	9.7	.0	5.0	3.9
SW	.0	.0	.5	.0	.0	.0		.5	16.7	.9	.0	.7	.9	.7	.0	.0	.0
W	.1	.8	.1	.0	.0	.0		1.0	5.6	1.8	.0	3.6	.9	.0	.0	.0	.0
NW	.1	.5	.0	.0	.0	.0		.6	4.4	.0	.0	1.4	.9	.0	.0	.0	1.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.0							1.0	.0	.0	.0	1.4	1.9	.0	.0	1.4	1.6
TOT OBS	18	186	185	4	0	0	393		10.7	57	3	69	53	75	2	70	64
TOT PCT	4.6	47.3	47.1	1.0	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.6	.3	.0	.0	.0		.9	6.1	1.7	.0	1.3	1.1
NE	.6	1.7	.1	.0	.0		2.4	8.9	4.2	1.6	.0	3.7
E	6.5	23.2	4.7	.0	.0		34.4	10.6	42.1	35.5	24.0	35.8
SE	8.1	36.3	8.8	.0	.0		53.2	11.4	45.4	50.6	64.6	52.6
S	2.4	2.7	.8	.0	.0		5.9	9.1	4.2	6.1	9.4	4.5
SW	.0	.1	.4	.0	.0		.5	16.7	.8	.8	.6	.0
W	.9	.1	.0	.0	.0		1.0	5.6	1.7	2.5	.0	.0
NW	.6	.0	.0	.0	.0		.6	4.4	.0	1.2	.0	.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.0						1.0	.0	.0	1.6	.0	1.5
TOT OBS	82	253	58	0	0	393		10.7	60	122	77	134
TOT PCT	20.9	64.4	14.8	.0	.0		100.0		100.0	100.0	100.0	100.0

AUGUST

PERIOD: (PRIMARY) 1914-1971
(OVER-ALL) 1976-1971

AREA 0011 SOUTH CENTRAL JAVA
7.7S 110.1E

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	.0	5.0	50.0	45.0	.0	.0	.0	10.4	100.0	60
06&09	1.6	5.7	42.6	49.2	.8	.0	.0	10.7	100.0	122
12&15	.0	.0	45.5	54.5	.0	.0	.0	11.1	100.0	77
18&21	1.5	3.0	51.5	41.8	2.2	.0	.0	10.6	100.0	134
TOT	4	14	186	185	4	0	0	10.7		393
PCT	1.0	3.6	47.3	47.1	1.0	.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	4.2	4.2		7.5
E	16.7	7.3	3.1	.0		2.2
SE	25.0	14.6	9.4	4.2		2.8
S	.0	3.1	8.3	.0		5.1
SW	.0	.0	.0	.0		.0
W	.0	.0	.0	.0		.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	10	6	6	2	24	3.3
TOT PCT	41.7	25.0	25.0	8.3	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NE	.0	.0	.0	.0	4.2	.0	.0	.0	.0	.0	4.2	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27.1	
SE	.0	.0	.0	.0	4.2	.0	.0	.0	.0	.0	49.0	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.5	
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	0	2	0	0	0	0	0	22	24
TOT PCT	.0	.0	.0	.0	8.3	.0	.0	.0	.0	.0	91.7	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) • OR >10	• OR >5	• OR >2	• OR >1	• OR >1/2	• OR >1/4	• OR >500YD	• OR >0
• OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
• OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
• OR >3500	.0	.0	.0	.0	.0	.0	.0	.0
• OR >2000	.0	.0	.0	.0	.0	.0	.0	.0
• OR >1000	4.2	8.3	8.3	8.3	8.3	8.3	8.3	8.3
• OR >600	4.2	8.3	8.3	8.3	8.3	8.3	8.3	8.3
• OR >300	4.2	8.3	8.3	8.3	8.3	8.3	8.3	8.3
• OR >150	4.2	8.3	8.3	8.3	8.3	8.3	8.3	8.3
• OR > 0	4.2	8.3	8.3	8.3	8.3	8.3	8.3	8.3
TOTAL	1	2	2	2	2	2	2	2

TOTAL NUMBER OF OBS: 24 PCT FREQ NH <5/8: 91.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
16.7	20.8	33.3	12.5	8.3	4.2	.0	4.2	.0	.0	24

AUGUST

PERIOD: (PRIMARY) 1914-1971
(OVER-ALL) 1876-1971

AREA 0011 SOUTH CENTRAL JAVA
7.7S 110.1E

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	.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	2.7	.0	.0	.0	.0	.0	.0	2.7	
	TOT %	.0	.0	.0	2.7	.0	.0	.0	.0	.0	.0	2.7	
5<10	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	2.7	.0	2.7	2.7	.0	.0	.0	.0	.0	8.1	
	TOT %	.0	2.7	.0	2.7	2.7	.0	.0	.0	.0	.0	8.1	
10+	PCP	.0	.0	.0	2.7	.0	.0	.0	.0	.0	.0	2.7	
	NO PCP	.0	5.4	31.1	42.6	7.4	.0	.0	.0	.0	.0	86.5	
	TOT %	.0	5.4	31.1	45.3	7.4	.0	.0	.0	.0	.0	89.2	
	TOT OBS												37
	TOT PCT	.0	8.1	31.1	50.7	10.1	.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	.5	.0	.0	.0	.0	.0	.0	.0	.5	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.5	.0	.0	.0	.0	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.5	.5	.0	.0	.0	.0	.0	.0	1.1	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5	
	4-10	.0	.5	.5	2.2	.5	.0	.0	.0	.0		3.8	
	11-21	.0	.0	.0	2.7	.3	.3	.0	.0	.0		3.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.5	.5	4.9	.8	.3	.0	.0	.0	.5	7.7	
10+	0-3	.0	.5	2.2	.0	.0	.0	.0	.0	.0	.0	2.7	
	4-10	.0	1.6	20.8	25.0	2.9	.0	.0	.0	.0		50.3	
	11-21	.0	.5	14.8	21.3	1.4	.3	.0	.0	.0		38.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	2.7	37.7	46.3	4.2	.3	.0	.0	.0	.0	91.3	
	TOT OBS												183
	TOT PCT	.0	3.3	38.8	51.8	5.1	.5	.0	.0	.0	.5	100.0	

AUGUST

PERIOD: (PRIMARY) 1914-1971
(OVER-ALL) 1876-1971

AREA 0011 SOUTH CENTRAL JAVA
7.7S 110.1E

TABLE 10

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

HOUR (GMT)	000 149	150 299	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	20.0	.0	.0	.0	.0	.0	20.0	80.0	5
06Z09	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	9
12Z15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	5
18Z21	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	20.0	80.0	5
TOT	0	0	0	0	2	0	0	0	0	0	2	22	24
PCT	.0	.0	.0	.0	8.3	.0	.0	.0	.0	.0	8.3	91.7	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	.0	3.6	.0	96.4	28
06Z09	.0	.0	.0	1.8	7.0	91.2	57
12Z15	.0	.0	.0	.0	7.9	92.1	38
18Z21	.0	.0	.0	.0	11.5	88.5	61
TOT	0	0	0	2	14	168	184
PCT	.0	.0	.0	1.1	7.6	91.3	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	.0	.0	.0	20.0	80.0	5
06Z09	.0	.0	11.1	.0	88.9	9
12Z15	.0	.0	.0	.0	100.0	5
18Z21	.0	.0	.0	20.0	80.0	5
TOT	0	0	1	2	21	24
PCT	.0	.0	4.2	8.3	87.5	100.0

TABLE 13

PERCENT FREQUENCY JF RELATIVE HUMIDITY 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	4.8	.0	.0	2	9.5
80/84	.0	.0	.0	.0	4.8	9.5	14.3	.0	6	28.6
75/79	.0	.0	.0	.0	.0	4.8	33.3	9.5	10	47.6
70/74	.0	.0	.0	.0	.0	.0	4.8	9.5	3	14.3
TOTAL	0	0	0	0	2	4	11	4	21	100.0
PCT	.0	.0	.0	.0	9.5	19.0	52.4	19.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	9.5	.0	.0	.0	.0	.0	.0
	.0	4.8	8.3	10.7	4.8	.0	.0	.0	.0	.0
	.0	.0	17.9	25.0	4.8	.0	.0	.0	.0	.0
	.0	4.8	.0	1.2	8.3	.0	.0	.0	.0	.0
	.0	9.5	26.2	46.4	17.9	.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
00Z03	83	82	82	78	74	72	72	77.5	60
06Z09	87	86	85	80	75	74	74	79.8	119
12Z15	83	82	82	78	74	72	72	77.9	77
18Z21	83	82	80	77	73	73	72	76.9	134
TOT	87	85	83	78	74	73	72	78.1	390

TABLE 16

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	.0	75.0	25.0	87	4
06Z09	.0	.0	28.6	57.1	14.3	.0	73	7
12Z15	.0	.0	.0	.0	66.7	33.3	89	6
18Z21	.0	.0	.0	.0	75.0	25.0	89	4
TOT	0	0	2	4	11	4	83	21

PERIOD: (PRIMARY) 1914-1971
(OVER-ALL) 1876-1971

AREA 0011 SOUTH CENTRAL JAVA
7.7S 110.1E

TABLE 17

PCT FRFQ 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
7/8	.0	.0	.0	.0	6.7	2	.0	6.7
4	.0	.0	3.3	.0	.0	1	.0	3.3
3	.0	.0	.0	3.3	.0	1	.0	3.3
2	.0	.0	10.0	10.0	.0	6	.0	20.0
1	.0	3.3	.0	.0	.0	1	.0	3.3
0	3.3	16.7	10.0	3.3	.0	10	.0	33.3
-1	.0	3.3	3.3	.0	.0	2	.0	6.7
-2	.0	3.3	6.7	.0	.0	3	.0	10.0
-4	3.3	6.7	.0	.0	.0	3	.0	10.0
-5	.0	3.3	.0	.0	.0	1	.0	3.3
TOTAL	2	11	10	5	2	30	0	30
PCT	6.7	36.7	33.3	16.7	6.7	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	7.1	.0	.0	.0	.0	7.1
3-4	.0	7.1	7.1	.0	.0	.0	14.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	10.7	.0	.0	.0	10.7
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	14.3	17.9	.0	.0	.0	32.1

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	23.2	.0	.0	.0	.0	23.2
3-4	.0	.0	21.4	.0	.0	.0	21.4
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	23.2	25.0	.0	.0	.0	48.2

PERIOD: (OVER-ALL) 1963-1971

AUGUST

TABLE 18 (CONT)

AREA 0011 SOUTH CENTRAL JAVA
7.75 110.1E

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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	5.4	.0	.0	.0	.0	5.4	.0	.0	.0	.0	.0	.0	.0
3-4	.0	14.3	.0	.0	.0	.0	14.3	.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	19.6	.0	.0	.0	.0	19.6	.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	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	35.7	.0	.0	.0	.0	35.7	
3-4	.0	21.4	28.6	.0	.0	.0	50.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	14.3	.0	.0	.0	14.3	
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	57.1	42.9	.0	.0	.0	100.0	14

PERIOD: (OVER-ALL) 1964-1971

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	7.1	7.1	21.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	4
6-7	.0	.0	.0	.0	14.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	7
8-9	.0	.0	7.1	7.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	4
10-11	.0	.0	.0	21.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	5
12-13	.0	.0	.0	14.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
TOTAL	0	1	2	9	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	5
PCT	.0	7.1	14.3	64.3	14.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1913-1969
(OVER-ALL) 1880-1969

AREA 0011 SOUTH CENTRAL JAVA
7.7S 110.1E

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	.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	9.1	.0	9.1	.0	.0	.0	.0	18.2	.0	.0	9.1	.0	0	.0	.0	72.7
SE	1.8	.0	1.8	.0	.0	.0	.0	3.5	7.0	.0	8.8	.0	.0	.0	.0	80.7
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SW	.0	.0	33.3	.0	.0	.0	.0	33.3	.0	.0	.0	.0	.0	.0	.0	66.7
W	25.0	.0	.0	.0	.0	.0	.0	25.0	.0	25.0	.0	.0	.0	.0	.0	75.0
NW	100.0	.0	.0	.0	.0	.0	.0	100.0	.0	100.0	.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	4.8	.0	4.8	.0	.0	.0	.0	9.5	4.8	2.4	7.1	.0	.0	.0	78.6
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 WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.0	.0	8.3	.0	.0	.0	.0	8.3	8.3	.0	16.7	.0	.0	.0	66.7
06&09	.0	.0	.0	.0	.0	.0	.0	.0	10.0	.0	.0	.0	.0	.0	90.0
12&15	10.0	.0	.0	.0	.0	.0	.0	10.0	.0	10.0	.0	.0	.0	.0	90.0
18&21	10.0	.0	10.0	.0	.0	.0	.0	20.0	.0	.0	10.0	.0	.0	.0	70.0
TOT PCT	4.8	.0	4.8	.0	.0	.0	.0	9.5	4.8	2.4	7.1	.0	.0	.0	78.6
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	.0	.1	.2	.0	.0	.0		.3	11.6	.7	.0	.0	.0	.0	.0	1.2	.0
NE	.3	1.4	.1	.0	.0	.0		1.9	6.8	3.7	.0	2.1	.0	1.6	.0	1.2	2.7
E	1.3	13.7	9.5	.1	.0	.0		24.6	10.0	29.0	20.0	28.1	20.3	22.5	.0	24.1	25.0
SE	1.5	31.7	29.4	.3	.1	.0		63.1	10.7	58.5	60.0	62.3	66.1	64.8	66.7	64.6	62.2
S	.3	4.7	1.1	.0	.1	.0		6.2	8.6	4.4	.0	7.5	11.9	7.7	.0	4.2	3.4
SW	.2	.2	.3	.3	.0	.0		1.1	12.5	3.7	10.0	.0	.0	.0	16.7	.0	2.0
W	.2	.3	.2	.3	.0	.0		1.1	12.1	.0	10.0	.0	.0	1.6	16.7	1.2	2.0
NW	.0	.1	.0	.0	.0	.0		.1	9.0	.0	.0	.0	.0	.5	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5							1.5	.0	.0	.0	.0	1.7	1.1	.0	3.6	2.7
TOT OBS	25	239	187	5	1	0	457		10.2	68	5	73	59	91	3	84	74
TOT PCT	5.5	52.3	40.9	1.1	.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	.0	.3	.0	.0	.0		.3	11.6	.7	.0	.0	.6
NE	.9	1.0	.0	.0	.0		1.9	6.8	3.4	1.1	1.6	1.9
E	5.0	17.6	2.0	.0	.0		24.6	10.0	28.4	24.6	21.8	24.5
SE	10.4	46.0	6.7	.1	.0		63.1	10.7	58.6	64.0	64.9	63.4
S	2.3	3.7	.1	.1	.0		6.2	8.6	4.1	9.5	7.4	3.8
SW	.4	.3	.3	.0	.0		1.1	12.5	4.1	.0	.5	.9
W	.4	.3	.3	.0	.0		1.1	12.1	.7	.0	2.1	1.6
NW	.0	.1	.0	.0	.0		.1	9.0	.0	.0	.5	.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.5						1.5	.0	.0	.8	1.1	3.2
TOT OBS	96	317	43	1	0	457		10.2	73	132	94	158
TOT PCT	21.0	69.4	9.4	.2	.0		100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1913-1969
(OVER-ALL) 1860-1969

AREA 0011 SOUTH CENTRAL JAVA
7.7S 110.1E

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	.0	.0	52.1	46.6	1.4	.0	.0	11.0	100.0	73
06&09	.8	4.5	55.3	39.4	.0	.0	.0	9.8	100.0	132
12&15	1.1	5.3	52.1	40.4	1.1	.0	.0	10.0	100.0	94
18&21	3.2	4.4	50.0	39.9	1.9	.6	.0	10.3	100.0	158
TOT	7	18	239	187	5	1	0	10.2		457
PCT	1.5	3.9	52.3	40.9	1.1	.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	.0	.0	.0	.0		.0
NE	5.3	.0	.0	.0		2.0
E	0.6	0.6	.0	2.6		3.4
SE	40.8	14.5	15.8	2.6		3.0
S	2.6	.0	.0	.0		2.0
SW	2.6	.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	11	4	3	1	19	3.0
TOT PCT	57.9	21.1	15.8	5.3	100.0	

TABLE 6

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

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3	
E	.0	.0	.0	.0	.0	.0	2.6	.0	.0	.0	13.2	
SE	.0	.0	.0	.0	.0	5.3	2.6	.0	.0	.0	65.8	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	
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	0	0	1	1	0	0	0	17	19
TOT PCT	.0	.0	.0	.0	.0	5.3	5.3	.0	.0	.0	89.5	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	.0	5.3	5.3	5.3	5.3	5.3	5.3	5.3
* OR >2000	5.3	10.5	10.5	10.5	10.5	10.5	10.5	10.5
* OR >1000	5.3	10.5	10.5	10.5	10.5	10.5	10.5	10.5
* OR >600	5.3	10.5	10.5	10.5	10.5	10.5	10.5	10.5
* OR >300	5.3	10.5	10.5	10.5	10.5	10.5	10.5	10.5
* OR >150	5.3	10.5	10.5	10.5	10.5	10.5	10.5	10.5
* OR > 0	5.3	10.5	10.5	10.5	10.5	10.5	10.5	10.5
TOTAL	1	2	2	2	2	2	2	2

TOTAL NUMBER OF OBS: 19 PCT FREQ NH <5/8: 89.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
5.0	25.0	35.0	15.0	10.0	5.0	.0	.0	5.0	.0	20

SEPTEMBER

PERIOD: (PRIMARY) 1913-1969
(OVER-ALL) 1860-1969

AREA 0011 SOUTH CENTRAL JAVA
7.7S 110.1E

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
	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	2.4	2.4	.0	2.4	1.2	1.2	.0	.0	9.5	
5<10	NO PCP	.0	.0	3.6	15.5	.0	.0	.0	.0	.0	.0	19.0	
	TOT %	.0	.0	6.0	17.9	.0	2.4	1.2	1.2	.0	.0	28.6	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10+	NO PCP	.0	4.8	7.1	50.0	1.2	4.8	3.6	.0	.0	.0	71.4	
	TOT %	.0	4.8	7.1	50.0	1.2	4.8	3.6	.0	.0	.0	71.4	
	TOT OBS												42
	TOT PCT	.0	4.8	13.1	67.9	1.2	7.1	4.8	1.2	.0	.0	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.5	.0	.0	.0	.0	.0		.5	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.5	.0	.0	.0	.0	.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	.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	
2<5	4-10	.0	.0	.5	.0	.0	.0	.0	.0	.0		.5	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.5	
	0-3	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.5	
5<10	4-10	.0	.3	2.3	2.5	.0	.0	.3	.3	.0		5.6	
	11-21	.0	.0	.0	2.5	.0	.5	.0	.0	.0		3.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.3	2.8	5.1	.0	.5	.3	.3	.0	.0	9.1	
	0-3	.0	.8	.8	.3	.3	.5	.0	.0	.0	2.5	5.1	
10+	4-10	.3	1.3	14.1	28.0	4.8	.0	.0	.0	.0		48.5	
	11-21	.0	.0	7.3	26.3	.5	.3	.0	.0	.0		34.3	
	22+	.0	.0	.3	.3	.0	.8	.8	.0	.0		2.0	
	TOT %	.3	2.0	22.5	54.8	5.6	1.5	.8	.0	.0	2.5	89.9	
	TOT OBS												198
	TOT PCT	.3	2.3	25.8	60.4	5.6	2.0	1.0	.3	.0	2.5	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1913-1969
(OVER-ALL) 1860-1969

AREA 0011 SOUTH CENTRAL JAVA
7.7S 110.1E

TABLE 10

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

HOUR (GMT)	000 149	150 299	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	.0	.0	.0	.0	.0	.0	.0	100.0	5
06Z09	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	6
12Z15	.0	.0	.0	.0	.0	16.7	.0	.0	.0	.0	16.7	83.3	6
18Z21	.0	.0	.0	.0	.0	.0	33.3	.0	.0	.0	33.3	66.7	3
TOT	0	0	0	0	0	1	1	0	0	0	2	18	20
PCT	.0	.0	.0	.0	.0	5.0	5.0	.0	.0	.0	10.0	90.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00Z03	.0	.0	.0	.0	13.9	86.1	36
06Z09	1.9	.0	.0	.0	5.6	92.6	54
12Z15	.0	.0	.0	.0	7.7	92.3	39
18Z21	.0	.0	.0	1.4	10.1	88.4	69
TOT	1	0	0	1	18	178	198
PCT	.5	.0	.0	.5	9.1	89.9	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
00Z03	.0	.0	.0	.0	100.0	5
06Z09	.0	.0	.0	.0	100.0	6
12Z15	.0	.0	.0	20.0	80.0	5
18Z21	.0	.0	.0	33.3	66.7	3
TOT	0	0	0	2	17	19
PCT	.0	.0	.0	10.5	89.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	8.0	24.0	12.0	.0	11	44.0
75/79	.0	.0	.0	.0	.0	16.0	32.0	8.0	14	56.0
TOTAL	0	0	0	0	2	10	11	2	25	100.0
PCT	.0	.0	.0	.0	8.0	40.0	44.0	8.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	4.0	4.0	32.0	.0	4.0	.0	.0	.0	.0
	.0	.0	10.0	42.0	.0	.0	2.0	2.0	.0	.0
	.0	4.0	14.0	74.0	.0	4.0	2.0	2.0	.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
00Z03	82	81	81	78	75	74	74	78.1	72
06Z09	85	84	84	80	77	76	75	80.1	130
12Z15	82	81	80	78	75	74	74	77.9	92
18Z21	82	81	80	77	73	72	72	77.1	159
TOT	85	84	82	78	75	72	72	78.3	453

TABLE 16

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	33.3	66.7	.0	83	6
06Z09	.0	.0	25.0	62.5	12.5	.0	74	8
12Z15	.0	.0	.0	16.7	66.7	16.7	85	6
18Z21	.0	.0	.0	40.0	40.0	20.0	86	5
TOT	0	0	2	10	11	2	81	25

SEPTEMBER

PERIOD: (PRIMARY) 1913- 969
(OVER-ALL) 1860-1969

AREA 0011 SOUTH CENTRAL JAVA
7.7S 110.1E

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 THP DIF	73 76	77 80	81 84	TOT	W FOG	WO FOG
3	.0	.0	3.1	1	.0	3.1
2	.0	3.1	6.3	3	3.1	6.3
1	.0	.0	3.1	1	.0	3.1
0	9.4	12.5	18.8	13	6.3	34.4
-1	.0	12.5	.0	4	.0	12.5
-2	.0	12.5	.0	4	.0	12.5
-3	.0	15.6	.0	5	.0	15.6
-5	.0	3.1	.0	1	.0	3.1
TOTAL	3	19	10	32	3	29
PCT	9.4	59.4	31.3	100.0	9.	90.6

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	.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	50.0	.0	.0	.0	.0	50.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	50.0	.0	.0	.0	50.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.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) 1963-1969

SEPTEMBER

TABLE 18 (CONT)

AREA 0011 SOUTH CENTRAL JAVA
7.75 110.1E

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	.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
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.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	50.0	.0	.0	.0	50.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.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	2

PERIOD: (OVER-ALL) 1950-1969

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	33.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	2
6-7	.0	.0	11.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
8-9	.0	.0	22.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	3
10-11	.0	.0	.0	11.1	11.1	.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	.0	.0	.0	.0	11.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
TOTAL	0	3	3	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	4
PCT	.0	33.3	33.3	11.1	22.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1914-1968
(OVER-ALL) 1360-1968

AREA 0011 SOUTH CENTRAL JAVA
7.8S 110.1E

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 BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
NE	100.0	.0	.0	.0	.0	.0	.0	100.0	.0	100.0	.0	.0	.0	.0		.0
E	6.1	6.1	.0	.0	.0	.0	.0	12.1	9.1	.0	.0	.0	.0	.0		78.8
SE	2.5	2.5	.0	.0	.0	.0	.0	5.1	1.3	10.1	.0	.0	.0	.0		83.5
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.5	.0	.0	.0	.0		87.5
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	50.0	.0	.0	.0	.0		50.0
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		100.0
TOT PCT	5.3	2.6	.0	.0	.0	.0	.0	7.9	2.6	10.5	.0	.0	.0	.0		81.6
TOT OBS:	38															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER 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	20.0	.0	.0	.0	.0	.0		80.0
06-09	.0	10.0	.0	.0	.0	.0	.0	10.0	.0	.0	.0	.0	.0	.0		90.0
12-15	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.1	.0	.0	.0	.0		90.9
18-21	15.4	.0	.0	.0	.0	.0	.0	15.4	.0	23.1	.0	.0	.0	.0		69.2
TOT PCT	5.1	2.6	.0	.0	.0	.0	.0	7.7	2.6	10.3	.0	.0	.0	.0		82.1
TOT OBS:	39															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	.0	.0	.0	.0		.8	4.6	2.7	.0	.0	.0	.0	.0	.0	2.7
NE	1.0	2.1	.3	.0	.0	.0		3.3	5.3	8.2	.0	4.9	.0	1.3	.0	1.5	4.5
E	1.0	12.8	4.4	.0	.0	.0		18.2	8.6	26.8	.0	22.2	12.0	11.7	.0	17.7	20.0
SE	2.4	39.4	17.4	.1	.0	0		59.3	9.3	47.7	100.0	51.9	64.8	66.2	100.0	51.5	62.7
S	1.5	8.9	1.7	.1	.0	.0		10.3	7.4	5.5	.0	11.1	19.0	14.3	.0	10.8	5.5
SW	1.2	1.7	.1	.0	.0	.0		3.0	5.0	1.8	.0	3.7	7.4	2.6	.0	.8	1.8
W	.8	.6	.4	.0	.0	.0		1.8	6.5	0.9	.0	1.2	2.8	.6	.0	2.3	.0
NW	.3	1.0	.0	.0	.0	.0		1.3	5.2	.9	.0	.0	.0	1.9	.0	2.3	2.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.1							2.1	.0	1.8	.0	4.7	.0	1.3	.0	3.1	.0
TOT OBS	41	253	94	1	0	0	389		8.4	55	1	81	54	77	1	65	53
TOT PCT	10.5	65.0	24.2	.3	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.6	.1	.0	.0	.0		.8	4.6	2.7	.0	.0	1.3
NE	2.6	.8	.0	.0	.0		3.3	5.3	8.0	3.0	1.3	2.9
E	5.5	12.4	.3	.0	.0		18.2	8.6	26.3	18.1	11.5	18.8
SE	13.4	44.2	1.8	.0	.0		59.3	9.3	48.7	57.0	66.7	62.1
S	5.4	4.4	.5	.0	.0		10.3	7.4	5.4	11.9	14.1	8.3
SW	2.2	.8	.0	.0	.0		3.0	5.0	1.8	5.2	2.6	1.3
W	.9	.9	.0	.0	.0		1.8	6.5	4.5	1.9	.6	1.3
NW	1.0	.3	.0	.0	.0		1.3	5.2	.9	.0	1.9	2.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.1						2.1	.0	1.8	3.0	1.3	1.7
TOT OBS	131	248	10	0	0	389		8.4	56	135	78	120
TOT PCT	33.7	63.8	2.6	.0	.0		100.0		100.0	100.0	100.0	100.0

OCTOBER

PERIOD: (PRIMARY) 1914-1968
(OVER-ALL) 1860-1968

AREA 0011 SOUTH CENTRAL JAVA
7.8S 110.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
				WIND SPEED (KNOTS)						
00&03	1.8	16.1	60.7	21.4	.0	.0	.0	7.8	100.0	56
06&09	3.0	7.4	65.2	23.7	.7	.0	.0	8.4	100.0	135
12&15	1.3	3.8	67.9	26.9	.0	.0	.0	8.9	100.0	78
18&21	1.7	9.2	65.0	24.2	.0	.0	.0	8.3	100.0	120
TOT	8	33	253	94	1	0	0	8.4		389
PCT	2.1	8.5	65.0	24.2	.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	.0	.0	.0	.0		.0
NE	.0	.0	.0	4.0		8.0
E	.0	.0	12.0	11.0		7.3
SE	4.0	4.0	24.0	13.0		5.8
S	2.0	4.0	2.0	.0		4.0
SW	2.0	.0	2.0	.0		4.5
W	.0	.0	.0	.0		.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	.0	4.0	8.0	4.0		6.0
TOT OBS	2	3	12	8	25	6.1
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	.0	
NE	.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
E	.0	.0	.0	4.0	.0	8.0	.0	.0	.0	.0	11.0	
SE	.0	.0	.0	8.0	4.0	8.0	.0	.0	.0	.0	25.0	
S	.0	.0	.0	.0	.0	.0	2.0	.0	.0	.0	6.0	
SW	.0	.0	.0	.0	.0	.0	2.0	.0	.0	.0	2.0	
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	4.0	.0	.0	.0	.0	12.0	
TOT OBS	0	1	0	3	1	5	1	0	0	0	14	25
TOT PCT	.0	4.0	.0	12.0	4.0	20.0	4.0	.0	.0	.0	56.0	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	3.8	3.8	3.8	3.8	3.8	3.8	3.8
* OR >2000	19.2	23.1	23.1	23.1	23.1	23.1	23.1	23.1
* OR >1000	23.1	26.9	26.9	26.9	26.9	26.9	26.9	26.9
* OR >600	30.8	38.5	38.5	38.5	38.5	38.5	38.5	38.5
* OR >300	30.8	38.5	38.5	38.5	38.5	38.5	38.5	38.5
* OR >150	30.8	38.5	38.5	38.5	42.3	42.3	42.3	42.3
* OR > 0	30.8	38.5	38.5	38.5	42.3	42.3	42.3	42.3
TOTAL	8	10	10	10	11	11	11	11

TOTAL NUMBER OF OBS: 26 PCT FREQ NH <5/8: 57.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
3.7	14.8	14.8	18.5	7.4	14.8	3.7	3.7	18.5	.0	27

OCTOBER

PERIOD: (PRIMARY) 1914-1968
(OVER-ALL) 1860-1968

AREA 0011 SOUTH CENTRAL JAVA
7.0S 110.1E

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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	2.6	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	2.6	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.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	2.6	2.6	.0	.0	.0	.0	.0	.0	5.3	
	NO PCP	.0	.0	2.6	11.8	2.6	1.3	.0	.0	.0	.0	18.4	
	TOT %	.0	.0	5.3	14.5	2.6	1.3	.0	.0	.0	.0	23.7	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	16.4	37.5	7.9	1.3	.0	.0	.0	10.5	73.7	
	TOT %	.0	.0	16.4	37.5	7.9	1.3	.0	.0	.0	10.5	73.7	
	TOT OBS												38
	TOT PCT	.0	2.6	21.7	52.0	10.5	2.6	.0	.0	.0	10.5	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	.5	.0	.0	.0	.0	.0	.0	.0		.5	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.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	.5	.0	.0	.0	.0	.0		.5	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.5	
5<10	0-3	.0	.0	.0	.5	.5	.0	.0	.0	.0	.0	1.0	
	4-10	.0	.0	1.0	2.7	.5	.2	.0	.0	.0		4.4	
	11-21	.0	.0	1.0	1.0	.0	.0	.0	.0	.0		2.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	2.0	4.2	1.0	.2	.0	.0	.0	.0	7.4	
10+	0-3	.0	.5	2.0	3.4	1.5	.0	.2	.2	.0	2.0	9.8	
	4-10	.5	2.5	18.8	37.9	4.2	.5	.2	.2	.0		62.7	
	11-21	.0	.5	3.2	14.5	1.0	.0	.0	.0	.0		19.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.5	3.4	21.9	55.8	6.6	.5	.5	.5	.0	2.0	91.7	
	TOT OBS												204
	TOT PCT	.5	3.9	23.9	60.4	7.6	.7	.5	.5	.0	2.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1914-1968
(OVER-ALL) 1860-1968

AREA 0011 SOUTH CENTRAL JAVA
7.8S 110.1E

TABLE 10

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

HOUR (GMT)	000 149	150 299	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	33.3	.0	.0	.0	.0	.0	.0	33.3	66.7	3
06Z09	.0	.0	.0	.0	.0	28.6	.0	.0	.0	.0	28.6	71.4	7
12Z15	.0	.0	.0	11.1	11.1	11.1	.0	.0	.0	.0	33.3	66.7	9
18Z21	.0	12.5	.0	12.5	.0	25.0	12.5	.0	.0	.0	62.5	37.5	8
TOT	0	1	0	3	1	5	1	0	0	0	11	16	27
PCT	.0	3.7	.0	11.1	3.7	18.5	3.7	.0	.0	.0	40.7	59.3	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	.0	.0	.0	6.7	93.3	30
06Z09	.0	.0	.0	.0	4.6	95.4	65
12Z15	.0	.0	.0	.0	5.0	95.0	40
18Z21	.0	1.4	.0	1.4	11.4	85.7	70
TOT	0	1	0	1	15	188	205
PCT	.0	.5	.0	.5	7.3	91.7	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
00Z03	.0	.0	33.3	.0	66.7	3
06Z09	.0	.0	.0	28.6	71.4	7
12Z15	.0	.0	11.1	22.2	66.7	9
18Z21	.0	14.3	28.6	42.9	28.6	7
TOT	0	1	4	7	15	26
PCT	.0	3.8	15.4	26.9	57.7	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	.0	3.1	.0	.0	1	3.1
85/89	.0	.0	.0	.0	.0	.0	.0	3.1	1	3.1
80/84	.0	.0	.0	.0	3.1	25.0	25.0	6.3	19	59.4
75/79	.0	.0	.0	.0	.0	6.3	15.6	12.5	11	34.4
TOTAL	0	0	0	0	1	11	13	7	32	100.0
PCT	.0	.0	.0	.0	3.1	34.4	40.6	21.9		

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	3.1
.0	.0	1.6	1.6	.0	.0	.0	.0	.0	.0
.0	.0	10.[illegible]	33.6	6.3	.0	.0	.0	.0	9.4
.0	3.1	[illegible]	10.9	6.3	3.1	.0	.0	.0	.0
.0	3.1	22.7	46.1	12.5	3.1	.0	.0	.0	12.5

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00Z03	85	84	82	79	75	74	74	79.0	55
06Z09	90	87	86	82	78	77	74	81.7	128
12Z15	84	83	82	80	77	74	74	79.8	77
18Z21	83	82	81	79	76	74	72	78.6	122
TOT	90	86	84	80	76	74	72	79.9	382

TABLE 16

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	.0	66.7	33.3	90	3
06Z09	.0	.0	11.1	55.6	22.2	11.1	78	9
12Z15	.0	.0	.0	30.0	60.0	10.0	83	10
18Z21	.0	.0	.0	36.4	27.3	36.4	86	11
TOT	0	0	1	12	13	7	83	33

PERIOD: (PRIMARY) 1914-1968
(OVER-ALL) 1860-1968

AREA 0011 SOUTH CENTRAL JAVA
7.8S 110.1E

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	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
5	.0	.0	.0	.0	.0	3.1	1	.0	3.1
3	.0	.0	.0	6.3	.0	.0	2	.0	6.3
2	.0	.0	.0	6.3	3.1	.0	3	.0	9.4
0	.0	.0	9.4	9.4	.0	.0	6	.0	18.8
-1	.0	.0	15.6	6.3	.0	.0	7	.0	21.9
-2	.0	.0	6.3	12.5	.0	.0	6	.0	18.8
-3	.0	.0	9.4	.0	.0	.0	3	.0	9.4
-4	.0	.0	.0	3.1	.0	.0	1	.0	3.1
-5	.0	3.1	.0	.0	.0	.0	1	.0	3.1
-6	.0	3.1	.0	.0	.0	.0	1	.0	3.1
-9/-10	3.1	.0	.0	.0	.0	.0	1	.0	3.1
TOTAL	1		13		1			0	32
		2		14		1	32		
PCT	3.1	6.3	40.6	43.8	3.1	3.1	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	.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	7.5	.0	.0	.0	.0	7.5
3-4	.0	20.0	25.0	.0	.0	.0	45.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	27.5	25.0	.0	.0	.0	52.5

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	32.5	.0	.0	.0	.0	32.5
3-4	.0	.0	15.0	.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	32.5	15.0	.0	.0	.0	47.5

OCTOBER

PERIOD: (OVER-ALL) 1963-1968

TABLE 18 (CONT)

AREA 0011 SOUTH CENTRAL JAVA
7.8S 110.1E

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	.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	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	40.0	.0	.0	.0	.0	40.0	
3-4	.0	20.0	40.0	.0	.0	.0	60.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.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	10

PERIOD: (OVER-ALL) 1950-1968

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	5.0	10.0	10.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	2
6-7	.0	10.0	10.0	5.0	.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	20.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	11
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	15.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	5
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	15.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	0
TOTAL	4	4	4	4	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	20	4
PCT	20.0	20.0	20.0	20.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1915-1966
(OVER-ALL) 1858-1966

AREA 0011 SOUTH CENTRAL JAVA
7.8S 110.1E

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	.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	11.8	.0	.0	.0	.0	.0	.0	11.8	.0	8.8	.0	.0	.0	.0	.0	79.4
SE	.0	.0	.0	.0	.0	.0	.0	.0	12.1	13.6	.0	.0	.0	.0	.0	74.2
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.9	.0	.0	.0	.0	.0	87.1
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	34.5	.0	.0	.0	.0	.0	65.5
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.3	.0	.0	.0	.0	.0	85.7
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	2.2	.0	.0	.0	.0	.0	.0	2.2	4.3	15.2	.0	.0	.0	.0	78.3	
TOT OBS:	46															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
06609	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
12615	5.6	.0	.0	.0	.0	.0	.0	5.6	5.6	22.2	.0	.0	.0	.0	.0	66.7
18621	.0	.0	.0	.0	.0	.0	.0	.0	11.1	44.4	.0	.0	.0	.0	.0	44.4
TOT PCT	2.1	.0	.0	.0	.0	.0	.0	2.1	4.2	16.7	.0	.0	.0	.0	77.1	
TOT OBS:	48															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	1.4	.4	.0	.0	.0		2.1	6.8	2.8	.0	.0	.0	2.5	.0	4.6	2.2
NE	.5	2.8	.3	.0	.0	.0		3.6	5.6	6.6	.0	1.7	.0	1.3	20.0	4.6	6.7
E	1.3	11.2	1.7	.0	.0	.0		14.1	7.2	20.8	16.7	20.4	7.9	12.8	20.0	7.7	15.7
SE	3.3	25.5	5.8	.1	.0	.0		34.7	7.9	32.1	33.3	39.6	41.2	35.3	30.0	36.9	24.6
S	5.1	12.8	1.6	.1	.0	.0		19.7	6.1	11.8	16.7	23.3	26.3	20.0	10.0	17.7	19.4
SW	2.6	5.3	1.7	.0	.0	.0		9.6	6.8	7.1	33.3	5.8	9.6	11.9	20.0	8.5	11.2
W	2.3	2.9	1.0	.5	.0	.0		6.8	7.9	5.7	.0	5.8	4.4	8.1	.0	10.8	6.0
NW	.5	2.7	.9	.0	.0	.0		4.1	7.5	3.8	.0	.0	5.3	5.6	.0	4.6	5.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.4							5.4	.0	9.4	.0	3.3	5.3	2.5	.0	4.6	9.0
TOT OBS	83	252	52	3	0	0	390		6.8	53	3	60	57	80	5	65	67
TOT PCT	21.3	64.6	13.3	.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	1.3	.8	.0	.0	.0		2.1	6.8	2.7	.0	2.4	3.4
NE	3.2	.1	.3	.0	.0		3.6	5.6	6.3	.9	2.4	5.7
E	7.8	5.7	.6	.0	.0		14.1	7.2	20.5	14.3	13.2	11.7
SE	13.8	20.1	.9	.0	.0		34.7	7.9	32.1	40.4	35.0	30.7
S	12.3	7.0	.4	.0	.0		19.7	6.1	12.1	24.8	19.4	18.6
SW	5.6	3.5	.4	.0	.0		9.6	6.8	8.5	7.7	12.4	9.8
W	3.7	2.1	1.0	.0	.0		6.8	7.9	5.4	3.1	7.6	8.3
NW	2.1	2.1	.0	.0	.0		4.1	7.5	3.6	2.6	5.3	4.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.4						5.4	.0	8.9	4.3	2.4	6.8
TOT OBS	215	161	14	0	0	390		6.8	56	117	85	132
TOT PCT	55.1	41.3	3.6	.0	.0		100.0		100.0	100.0	100.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1951-1966
(OVER-ALL) 1858-1966

AREA 0011 SOUTH CENTRAL JAVA
7.0S 110.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
				WIND SPEED (KNOTS)						
00603	8.9	10.7	67.9	12.5	.0	.0	.0	6.6	100.0	56
06609	4.3	17.9	66.7	9.4	1.7	.0	.0	6.8	100.0	117
12615	2.4	15.3	65.9	16.5	.0	.0	.0	7.1	100.0	85
18621	6.8	16.7	60.6	15.2	.8	.0	.0	6.7	100.0	132
TOT	21	62	252	52	3	0	0	6.8		390
PCT	5.4	15.9	64.6	13.3	.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	.0	.0		.0
NE	.0	.0	.0	.0		.0
E	.0	.0	12.1	.0		6.5
SE	3.2	8.1	18.5	9.7		5.5
S	.0	7.3	11.3	1.6		4.8
SW	3.2	5.6	6.5	1.6		4.5
W	3.2	4.8	3.2	.0		4.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	3	8	16	4	31	5.1
TOT PCT	9.7	25.8	51.6	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	.0	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
E	.0	.0	.0	.0	.0	3.2	.0	.0	.0	.0	8.9	
SE	.0	.0	3.2	6.5	.0	.0	.0	.0	.0	.0	29.8	
S	.0	.0	.0	.0	.0	3.2	1.6	.0	.0	.0	15.3	
SW	.0	.0	.0	.0	.0	4.8	1.2	.0	.0	.0	8.9	
W	.0	.0	.0	.0	.0	1.6	1.6	.0	.0	.0	6.1	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	0	0	1	2	0	4	2	0	0	0	22	31
TOT PCT	.0	.0	3.2	6.5	.0	12.9	6.5	.0	.0	.0	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 >500YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
* OR >2000	15.6	15.6	15.6	15.6	18.8	18.8	18.8	18.8
* OR >1000	15.6	15.6	15.6	15.6	18.8	18.8	18.8	18.8
* OR >600	21.9	21.9	21.9	21.9	25.0	25.0	25.0	25.0
* OR >300	21.9	25.0	25.0	25.0	28.1	28.1	28.1	28.1
* OR >150	21.9	25.0	25.0	25.0	28.1	28.1	28.1	28.1
* OR > 0	21.9	25.0	25.0	25.0	28.1	28.1	28.1	28.1
TOTAL	7	8	8	8	9	9	9	9

TOTAL NUMBER OF OBS: 32 PCT FREQ NH <5/8: 71.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
.0	2.7	24.3	35.1	8.1	8.1	5.4	8.1	8.1 .0	37

NOVEMBER

PERIOD: (PRIMARY) 1915-1966
(OVER-ALL) 1858-1966

AREA 0011 SOUTH CENTRAL JAVA
7.8S 110.1E

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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	2.2	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	2.2	
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	1.1	3.3	6.5	2.2	.0	.0	.0	.0	.0	13.0	
	TOT %	.0	1.1	3.3	6.5	2.2	.0	.0	.0	.0	.0	13.0	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	4.3	13.0	29.3	14.7	15.8	7.6	.0	.0	.0	84.8	
	TOT %	.0	4.3	13.0	29.3	14.7	15.8	7.6	.0	.0	.0	84.8	
	TOT OBS												46
	TOT PCT	.0	5.4	18.5	35.9	16.8	15.8	7.6	.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	.5	.0	.0	.0	.0	.0	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.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	.7	.0	.0	.0	.0	.0	.9	.2	.0		1.8	
	11-21	.0	.0	.0	.5	.0	.0	.0	.5	.0		.9	
	22+	.0	.0	.0	.0	.0	.0	.5	.0	.0		.5	
	TOT %	.7	.0	.0	.5	.0	.0	1.4	.7	.0	.0	3.2	
5<10	0-3	.0	.0	.9	.7	.2	.0	.0	.0	.0	.5	2.3	
	4-10	.0	.2	1.1	2.0	1.4	.2	.0	.0	.0		5.0	
	11-21	.0	.0	.5	1.4	.0	.5	.0	.0	.0		2.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	2.5	4.1	1.6	.7	.0	.0	.0	.5	9.5	
10+	0-3	.0	.5	.5	3.8	5.9	2.5	2.7	.5	.0	5.0	21.3	
	4-10	.9	3.2	9.5	26.7	12.7	2.9	1.6	.9	.0		58.4	
	11-21	.5	.0	.9	2.3	.0	1.9	1.4	.0	.0		7.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	1.4	3.6	10.9	32.8	18.9	7.4	5.7	1.4	.0	5.0	86.9	
	TOT OBS												221
	TOT PCT	2.0	3.8	13.8	37.3	20.5	8.0	7.0	2.0	.0	5.4	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1915-1966
(OVER-ALL) 1858-1966

AREA 0011 SOUTH CENTRAL JAVA
7.8S 110.1E

TABLE 10

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

HOUR (GMT)	000 149	150 299	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	14.3	.0	.0	14.3	.0	.0	.0	28.6	71.4	7
06Z09	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	8
12Z15	.0	.0	7.7	.0	.0	23.1	7.7	.0	.0	.0	38.5	61.5	13
18Z21	.0	.0	.0	14.3	.0	14.3	.0	.0	.0	.0	28.6	71.4	7
TOT	0	0	1	2	0	4	2	0	0	0	9	26	35
PCT	.0	.0	2.9	5.7	.0	11.4	5.7	.0	.0	.0	25.7	74.3	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	.0	.0	.0	15.2	84.8	33
06Z09	.0	.0	.0	1.5	10.6	87.9	66
12Z15	.0	2.0	.0	2.0	9.8	86.3	51
18Z21	.0	.0	.0	6.8	5.5	87.7	73
TOT	0	1	0	7	21	194	223
PCT	.0	.4	.0	3.1	9.4	87.0	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	16.7	16.7	66.7	6
06Z09	.0	.0	.0	.0	100.0	8
12Z15	.0	18.2	18.2	27.3	54.5	11
18Z21	.0	.0	14.3	14.3	71.4	7
TOT	0	2	4	5	23	32
PCT	.0	6.3	12.5	15.6	71.9	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	2.9	2.9	.0	.0	2	5.9
80/84	.0	.0	.0	.0	11.8	41.2	29.4	2.9	29	85.3
75/79	.0	.0	.0	.0	.0	.0	2.9	2.9	2	5.9
70/74	.0	.0	.0	.0	.0	.0	.0	2.9	1	2.9
TOTAL	0	0	0	0	5	15	11	3	34	100.0
PCT	.0	.0	.0	.0	14.7	44.1	32.4	8.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	2.9	2.9	.0	.0	.0	.0	.0	.0
	.0	.0	10.3	33.8	9.6	21.3	10.3	.0	.0	.0
	.0	.0	2.9	2.9	.0	.0	.0	.0	.0	.0
	.0	.0	.0	2.9	.0	.0	.0	.0	.0	.0
	.0	.0	16.2	42.6	9.6	21.3	10.3	.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
00Z03	86	85	83	81	78	76	76	80.9	56
06Z09	89	88	86	83	79	76	76	82.7	112
12Z15	86	85	84	81	76	73	73	80.9	83
18Z21	83	82	82	80	78	75	73	80.0	131
TOT	89	86	85	81	78	75	73	81.1	382

TABLE 16

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	14.3	14.3	57.1	14.3	80	7
06Z09	.0	.0	44.4	44.4	11.1	.0	72	9
12Z15	.0	.0	.0	57.1	28.6	14.3	81	14
18Z21	.0	.0	.0	50.0	[illegible]	.0	78	6
TOT	0	0	5	[illegible]	12	3	78	36

NOVEMBER

PERIOD: (PRIMARY) 1915-1966
(OVER-ALL) 1858-1966

AREA 0011 SOUTH CENTRAL JAVA
7.0S 110.1E

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	TOT	W FOG	WO FOG
5	.0	.0	4.9	.0	2	.0	4.9
3	.0	.0	4.9	.0	2	.0	4.9
2	.0	4.9	7.3	2.4	6	.0	14.6
1	.0	.0	2.4	.0	1	.0	2.4
0	.0	4.9	19.5	.0	10	.0	24.4
-1	.0	4.9	14.6	.0	8	.0	19.5
-2	.0	2.4	12.2	.0	6	.0	14.6
-4	.0	4.9	2.4	.0	3	.0	7.3
-6	2.4	.0	.0	.0	1	.0	2.4
-7/-8	2.4	.0	.0	.0	1	.0	2.4
-9/-10	2.4	.0	.0	.0	1	.0	2.4
TOTAL	3	9	28	1	41	0	41
PCT	7.3	22.0	68.3	2.4	100.0		100.0

PERIOD: (OVER-ALL) 1963-1966

TABLE 18

PCT FREQ OF 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	4.4	.0	.0	.0	.0	4.4
3-4	.0	4.4	.0	.0	.0	.0	4.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.8	.0	.0	.0	.0	8.8

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	30.9	5.9	.0	.0	.0	36.8
3-4	.0	7.4	11.8	.0	.0	.0	19.1
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	38.2	17.6	.0	.0	.0	55.9

PERIOD: (OVER-ALL) 1963-1966

NOVEMBER

TABLE 18 (CONT)

AREA 0011 SOUTH CENTRAL JAVA
7.8S 110.1E

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	.0	.0	.0	.0	.0	.0	.0	5.9	.0	.0	.0	.0	5.9
1-2	.0	5.9	.0	.0	.0	.0	5.9	.0	.0	11.8	.0	.0	.0	11.8
3-4	.0	.0	4.4	.0	.0	.0	4.4	.0	.0	1.5	.0	.0	.0	1.5
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	.0	5.9	4.4	.0	.0	.0	10.3	.0	5.9	13.2	.0	.0	.0	19.1

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	5.9	.0	.0	.0	5.9	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	5.9	.0	.0	.0	5.9	.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	.0	5.9	.0	.0	.0	.0	5.9	
1-2	.0	41.2	17.6	.0	.0	.0	58.8	
3-4	.0	11.8	23.5	.0	.0	.0	35.3	
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	58.8	41.2	.0	.0	.0	100.0	17

PERIOD: (OVER-ALL) 1953-1966

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	7.4	3.7	11.1	11.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	3
6-7	.0	.0	7.4	11.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	4
8-9	.0	.0	.0	7.4	11.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	6
10-11	.0	.0	.0	3.7	7.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	6
12-13	.0	.0	.0	.0	3.7	.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	.0	.0	14.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	5
TOTAL	2	1	5	13	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	5
PCT	7.4	3.7	18.5	48.1	22.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1913-1967
(OVER-ALL) 1854-1967

AREA 0011 SOUTH CENTRAL JAVA
7.6S 109.5E

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	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
E	46.7	20.7	.0	.0	.0	.0	.0	73.3	.0	46.7	.0	.0	.0	.0	.0	26.7
SE	15.8	.0	.0	.0	.0	.0	.0	15.8	.0	8.8	.0	.0	.0	.0	.0	77.2
S	.0	.0	22.2	.0	.0	.0	.0	22.2	.0	.0	.0	.0	.0	.0	.0	77.8
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	50.0	.0	.0	.0	.0	.0	.0	50.0	.0	.0	.0	.0	.0	.0	.0	50.0
TOT PCT	13.2	2.6	2.6	.0	.0	.0	.0	18.4	.0	7.9	.0	.0	.0	.0	.0	78.9
TOT OBS:	38															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER 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	11.1	11.1	.0	.0	.0	.0	.0	22.2	.0	.0	.0	.0	.0	.0	.0	77.8
06&09	8.3	.0	8.3	.0	.0	.0	.0	16.7	.0	.0	.0	.0	.0	.0	.0	83.3
12&15	22.2	.0	.0	.0	.0	.0	.0	22.2	.0	22.2	.0	.0	.0	.0	.0	66.7
18&21	25.0	8.3	.0	.0	.0	.0	.0	33.3	.0	16.7	.0	.0	8.3	.0	.0	58.3
TOT PCT	16.7	4.8	2.4	.0	.0	.0	.0	23.8	.0	9.5	.0	.0	2.4	.0	.0	71.4
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	.5	2.4	.0	.0	.0	.0		2.8	6.5	5.0	.0	.0	.0	4.3	.0	6.1	.0
NE	.9	.2	.0	.0	.0	.0		1.2	3.4	3.3	.0	.0	.0	1.1	.0	.0	3.2
E	4.0	4.1	.0	.0	.0	.0		8.1	4.9	10.0	50.0	3.3	3.6	8.0	.0	8.5	11.3
SE	3.1	11.7	.7	.0	.0	.0		15.4	6.0	8.3	16.7	18.3	14.3	17.6	25.0	20.7	9.7
S	2.6	8.3	1.4	.0	.0	.0		12.3	6.1	8.3	.0	11.7	17.9	16.0	25.0	12.2	6.5
SW	2.6	9.6	3.9	.2	.0	.0		16.3	7.8	15.8	.0	20.0	30.4	17.0	.0	8.5	12.1
W	3.7	14.5	9.3	.2	.0	.0		27.7	8.8	26.7	16.7	30.0	26.8	23.4	50.0	30.5	29.8
NW	2.0	7.3	1.2	.0	.0	.0		10.5	6.8	15.8	16.7	6.7	3.6	6.4	.0	11.0	21.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.7							5.7	.0	6.7	.0	10.0	3.6	6.4	.0	2.4	6.5
TOT OBS	53	123	35	1	0	0	212		6.7	30	3	30	28	47	2	41	31
TOT PCT	25.0	58.0	16.5	.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	1.4	1.4	.0	.0	.0		2.8	6.5	4.5	.0	4.1	3.5
NE	.9	.2	.0	.0	.0		1.2	3.4	3.0	.0	1.0	1.4
E	5.0	3.2	.0	.0	.0		8.1	4.9	13.6	3.4	7.7	9.7
SE	9.9	5.5	.0	.0	.0		15.4	6.0	9.1	16.4	17.9	16.0
S	8.3	4.0	.0	.0	.0		12.3	6.1	7.6	14.7	16.3	9.7
SW	8.7	6.1	1.4	.0	.0		16.3	7.8	14.4	25.0	16.3	10.1
W	14.0	9.4	4.2	.0	.0		27.7	8.8	25.8	28.4	24.5	30.2
NW	6.5	3.1	.9	.0	.0		10.5	6.8	15.9	5.2	6.1	15.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.7						5.7	.0	6.1	6.9	6.1	4.2
TOT OBS	128	70	14	0	0	212		6.7	33	58	49	72
TOT PCT	60.4	33.0	6.6	.0	.0		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1913-1967
(OVER-ALL) 1854-1967

AREA 0011 SOUTH CENTRAL JAVA
7.6S 109.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
	WIND SPEED (KNOTS)									
00&03	6.1	18.2	57.6	18.2	.0	.0	.0	6.6	100.0	33
06&09	6.9	20.7	48.3	22.4	1.7	.0	.0	7.3	100.0	58
12&15	6.1	12.2	65.3	16.3	.0	.0	.0	7.3	100.0	49
18&21	4.2	23.6	61.1	11.1	.0	.0	.0	5.9	100.0	72
TOT	12	41	123	35	1	0	0	6.7		212
PCT	5.7	19.3	58.0	16.5	.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	.0	.0	.0	.0		.0
E	.0	5.3	5.3	3.9		5.8
SE	.0	.0	21.1	6.6		6.4
S	.0	.0	.0	5.3		8.0
SW	1.3	5.3	.0	1.3		4.3
W	9.2	.0	5.3	13.2		5.6
NW	.0	.0	5.3	1.3		5.6
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	5.3	5.3		7.5
TOT OBS	2	2	8	7	19	6.1
TOT PCT	10.5	10.5	42.1	36.8	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	.0	
E	.0	.0	3.9	.0	.0	5.3	.0	.0	.0	.0	5.3	
SE	.0	.0	1.3	5.3	.0	5.3	.0	.0	.0	.0	15.8	
S	.0	.0	5.3	.0	.0	.0	.0	.0	.0	.0	.0	
SW	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	6.6	
W	.0	.0	.0	7.9	10.5	.0	.0	.0	.0	.0	9.2	
NW	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	5.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	5.3	.0	.0	.0	.0	.0	.0	5.3	
TOT OBS	0	0	2	4	2	2	0	0	0	0	9	19
TOT PCT	.0	.0	10.5	21.1	10.5	10.5	.0	.0	.0	.0	47.4	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >2000	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
* OR >1000	15.0	15.0	20.0	20.0	20.0	20.0	20.0	20.0
* OR >600	25.0	35.0	40.0	40.0	40.0	40.0	40.0	40.0
* OR >300	30.0	45.0	50.0	50.0	50.0	50.0	50.0	50.0
* OR >150	30.0	45.0	50.0	50.0	50.0	50.0	50.0	50.0
* OR > 0	30.0	45.0	50.0	50.0	50.0	50.0	50.0	50.0
TOTAL	6	9	10	10	10	10	10	10

TOTAL NUMBER OF OBS: 20 PCT FREQ NH <5/8: 50.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
.0	18.2	18.2	4.5	9.1	13.6	18.2	4.5	13.6	.0	22

PERIOD: (PRIMARY) 1913-1967
(OVER-ALL) 1854-1967

AREA 0011 SOUTH CENTRAL JAVA
7.6S 109.5E

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	.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	3.9	1.3	.0	.0	5.3	
	TOT %	.0	.0	.0	.0	.0	.0	3.9	1.3	.0	.0	5.3	
5<10	PCP	.0	.0	2.6	5.3	2.6	.0	.0	.0	.0	.0	10.5	
	NO PCP	.0	.0	.0	18.4	7.9	.7	6.6	.7	.0	.0	34.2	
	TOT %	.0	.0	2.6	23.7	10.5	.7	6.6	.7	.0	.0	44.7	
10+	PCP	.0	.0	4.6	.7	.0	.0	.0	.0	.0	2.6	7.9	
	NO PCP	.0	.0	2.6	13.2	1.3	5.9	13.8	2.6	.0	2.6	42.1	
	TOT %	.0	.0	7.2	13.8	1.3	5.9	13.8	2.6	.0	5.3	50.0	
	TOT OBS												38
	TOT PCT	.0	.0	9.9	37.3	11.8	6.6	24.3	4.6	.0	5.3	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.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	.5	.5	.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	.0	.0	.0	.5	.5	.0	.0	.0	1.1	
2<5	0-3	.0	.0	2.7	1.1	.5	.0	.0	.0	.0	.0	4.3	
	4-10	.0	.0	.5	.5	.0	1.1	1.6	1.6	.0		5.3	
	11-21	.0	.0	.0	.0	.0	.5	.5	.0	.0		1.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	3.2	1.6	.5	1.6	2.1	1.6	.0	.0	10.6	
5<10	0-3	.0	.0	.0	1.1	.0	.0	.8	.3	.0	.0	2.1	
	4-10	.0	.0	1.1	7.4	2.1	1.9	2.9	.5	.0		16.0	
	11-21	.0	.0	.0	1.1	2.1	.0	.0	.0	.0		3.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	1.1	9.6	4.3	1.9	3.7	.8	.0	.0	21.3	
10+	0-3	.0	.0	1.1	2.1	3.2	2.1	2.1	2.1	.0	4.3	17.0	
	4-10	.5	.0	4.5	12.0	7.4	7.4	8.0	2.7	.0		42.6	
	11-21	.0	.0	.0	.0	.0	3.5	4.0	.0	.0		7.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.5	.0	5.6	14.1	10.6	13.0	14.1	4.8	.0	4.3	67.0	
	TOT OBS												94
	TOT PCT	.5	.0	9.8	25.3	15.4	17.0	20.5	7.2	.0	4.3	100.0	

DECEMBER

PERIOD: (PRIMARY) 1913-1967
(OVER-ALL) 1854-1967

AREA 0011 SOUTH CENTRAL JAVA
7.6S 109.5E

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
00E03	.0	.0	.0	42.9	.0	14.3	.0	.0	.0	.0	57.1	42.9	7
06E09	.0	.0	20.0	.0	20.0	.0	.0	.0	.0	.0	40.0	60.0	5
12E15	.0	.0	25.0	25.0	.0	25.0	.0	.0	.0	.0	75.0	25.0	4
18E21	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	20.0	80.0	5
TOT	0	0	2	4	2	2	0	0	0	0	10	11	21
PCT	.0	.0	9.5	19.0	9.5	9.5	.0	.0	.0	.0	47.6	52.4	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	5.9	17.6	23.5	52.9	17
06E09	.0	.0	.0	4.0	28.0	68.0	25
12E15	.0	.0	.0	8.7	26.1	65.2	23
18E21	.0	.0	3.0	12.1	15.2	69.7	33
TOT	0	0	2	10	22	64	98
PCT	.0	.0	2.0	10.2	22.4	65.3	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	42.9	14.3	42.9	7
06E09	.0	25.0	25.0	25.0	50.0	4
12E15	.0	25.0	50.0	25.0	25.0	4
18E21	.0	.0	20.0	.0	80.0	5
TOT	0	2	7	3	10	20
PCT	.0	10.0	35.0	15.0	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	5.0	5.0	.0	.0	2	10.0
80/84	.0	.0	.0	.0	15.0	20.0	25.0	.0	12	60.0
75/79	.0	.0	.0	.0	.0	5.0	15.0	10.0	6	30.0
TOTAL	0	0	0	0	4	6	8	2	20	100.0
PCT	.0	.0	.0	.0	20.0	30.0	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	.0	5.0	.0	.0	5.0	.0	.0	.0
	.0	.0	13.8	16.3	.0	6.3	13.8	5.0	.0	5.0
	.0	.0	.0	5.0	5.0	1.3	12.5	1.3	.0	5.0
	.0	.0	13.8	26.3	5.0	7.5	31.3	6.3	.0	10.0

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	54	83	83	80	76	76	76	80.1	34
06E09	88	87	87	82	77	75	75	82.4	55
12E15	84	83	83	81	77	75	75	80.7	49
18E21	84	83	82	80	77	74	74	79.8	76
TOT	88	87	84	81	77	75	74	80.7	214

TABLE 16

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	28.6	14.3	42.9	14.3	79	7
06E09	.0	.0	40.0	40.0	20.0	.0	72	5
12E15	.0	.0	.0	40.0	60.0	.0	81	5
18E21	.0	.0	.0	20.0	60.0	20.0	85	5
TOT	0	0	4	6	10	2	79	22

DECEMBER

PERIOD: (PRIMARY) 1913-1967
(OVER-ALL) 1854-1967

AREA 0011 SOUTH CENTRAL JAVA
7.0S 109.5E

TABLE 17

PCT 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
9/10	.0	.0	2.7	1	.0	2.7
4	.0	.0	2.7	1	.0	2.7
3	.0	.0	5.4	2	.0	5.4
1	.0	2.7	.0	1	.0	2.7
0	.0	21.6	2.7	9	.0	24.3
-1	.0	10.8	.0	4	.0	10.8
-2	.0	16.2	.0	6	.0	16.2
-3	18.9	2.7	.0	8	.0	21.6
-4	2.7	2.7	.0	2	.0	5.4
-5	5.4	.0	.0	2	.0	5.4
-7/-8	2.7	.0	.0	1	.0	2.7
TOTAL	12	21	4	37	0	37
PCT	32.4	56.8	10.8	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	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

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	13.3	.0	.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	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	13.3	.0	.0	.0	.0	13.3

PERIOD: (OVER-ALL) 1963-1967

DECEMBER

TABLE 18 (CONT)

AREA 0011 SOUTH CENTRAL JAVA
7.65 109.5E

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	.0	6.7	.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	.0	6.7	.0	.0	.0	6.7

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	1.7	8.3	.0	.0	.0	10.0
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	8.3	.0	.0	.0	10.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	5.0	.0	.0	.0	.0	.0	5.0
1-2	.0	25.0	11.7	.0	.0	.0	36.7
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	5.0	25.0	11.7	.0	.0	.0	41.7

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	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	1.7	6.7	.0	.0	.0	.0	8.3	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	29.4	.0	.0	.0	.0	.0	29.4	
1-2	.0	47.1	23.5	.0	.0	.0	70.6	
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	29.4	47.1	23.5	.0	.0	.0	100.0	17

PERIOD: (OVER-ALL) 1953-1967

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	4.8	14.3	9.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	2
6-7	.0	.0	9.5	14.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	4
8-9	.0	.0	9.5	19.0	9.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	5
10-11	.0	.0	9.5	.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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
TOTAL	1	3	8	7	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	4
PCT	4.8	14.3	38.1	33.3	9.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

ANNUAL

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1854-1973

AREA 0011 SOUTH CENTRAL JAVA
7.85 110.0E

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	13.3	.0	.0	.0	.0	.0	.0	13.3	.0	.0	.0	.0	.0		.0	28.3
NE	8.3	.3	.0	.0	.0	.0	.0	8.7	.0	8.3	.0	.0	1.3		.0	73.4
E	6.6	3.8	.8	.0	.0	.0	.0	11.2	2.4	9.6	1.4	.0	.0		.0	79.8
SE	6.5	1.8	.1	.0	.0	.0	.0	8.4	1.7	7.2	1.0	.0	.0		.0	85.8
S	1.2	.5	1.9	.0	.0	.0	.0	3.6	.0	6.3	.0	.0	.9		.0	80.9
SW	1.8	.7	2.8	.0	.0	.0	.0	5.3	.0	7.9	.0	.0	.1		.0	78.3
W	5.8	.4	.3	.0	.0	.0	.0	6.5	8.6	6.3	.0	.0	.0		.0	57.1
NW	10.6	8.7	.4	.0	.0	.0	.0	19.7	2.0	8.3	.0	.0	.4		.0	36.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	4.5	1.8	.0	.0	.0	.0	.0	6.3	2.8	2.8	.0	.0	.4		.0	46.1
TOT PCT	5.8	1.9	.8	.0	.0	.0	.0	8.5	2.2	6.5	.9	.0	.3		.0	83.6
TOT OBS:	653															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER 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	3.1	3.6	.9	.0	.0	.0	.0	7.6	2.6	1.9	1.4	.0	.9		.0	85.6
06Z09	2.8	2.3	.7	.0	.0	.0	.0	5.7	1.8	2.8	.8	.0	.0		.0	90.5
12Z15	9.5	.6	.2	.0	.0	.0	.0	10.3	.6	10.4	.8	.0	.2		.0	81.1
18Z21	8.1	2.0	.8	.0	.0	.0	.0	11.0	5.4	13.1	.8	.0	.7		.0	71.9
TOT PCT	6.1	2.2	.7	.0	.0	.0	.0	9.0	2.2	7.0	.9	.0	.5		.0	82.6
TOT OBS:	885															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.6	2.0	.2	.0	.0	.0		2.7	6.6	4.3	.0	2.0	.6	1.8	6.3	3.7	3.6
NE	.8	2.5	.3	.0	.0	.0		3.6	6.1	7.2	6.9	3.4	.5	1.8	1.7	3.7	5.2
E	1.6	12.6	7.7	.2	*	.0		22.2	8.2	27.5	33.7	25.2	17.3	17.9	20.4	21.3	23.3
SE	2.1	19.1	11.8	.4	*	.0		33.4	8.6	25.9	30.3	31.9	38.6	38.2	37.9	35.0	30.6
S	1.5	5.3	.8	.1	*	.0		7.7	6.7	4.6	3.5	6.7	12.7	10.1	8.5	7.3	5.1
SW	1.4	4.6	1.4	.1	*	.0		7.6	8.6	4.7	6.7	7.5	14.1	10.4	5.8	4.5	5.3
W	1.9	5.8	3.1	.5	*	.0		11.4	7.9	10.8	11.2	12.2	11.2	11.3	13.9	11.8	11.2
NW	1.3	3.9	1.1	.1	.0	.0		6.4	6.8	9.9	7.6	5.0	2.6	4.7	5.6	7.1	9.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.8							4.8	.0	5.1	.0	6.1	2.4	3.7	.0	5.7	6.4
TOT OBS							4863		8.4	745	38	851	653	942	32	836	788
TOT PCT	16.2	55.8	26.5	1.4	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.8	.9	*	.0	.0		2.7	6.6	4.1	1.5	2.0	3.7
NE	2.3	1.3	*	.0	.0		3.6	6.1	7.1	2.1	1.8	4.4
E	6.6	13.7	1.8	.1	.0		22.2	8.2	27.9	21.7	18.1	22.3
SE	8.8	21.4	3.1	.1	.0		33.4	8.6	26.2	34.9	38.0	32.9
S	4.8	2.7	.2	*	.0		7.7	6.7	4.6	9.4	10.0	6.3
SW	3.9	3.2	.5	*	*		7.6	8.6	4.9	10.3	10.2	4.9
W	4.7	4.9	1.6	.2	*		11.4	7.9	10.7	11.8	11.5	11.5
NW	3.5	2.5	.5	*	.0		6.4	6.8	9.7	4.0	4.8	8.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.8						4.8	.0	4.9	4.4	3.5	6.0
TOT OBS						4863		8.4	783	1504	974	1602
TOT PCT	41.3	50.5	7.7	.4	*		100.0		100.0	100.0	100.0	100.0

ANNUAL

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1854-1973

AREA 0011 SOUTH CENTRAL JAVA
7.8S 110.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	4.9	12.8	54.7	26.4	1.2	.0	.0	8.2	100.0	783
06&09	4.4	12.6	54.8	26.4	1.7	.0	.0	8.4	100.0	1504
12&15	3.5	9.8	57.0	28.5	1.0	.2	.0	8.7	100.0	974
18&21	6.0	10.1	56.5	25.6	1.4	.3	.0	8.3	100.0	1602
TOT								8.4		4863
PCT	4.8	11.3	55.8	26.5	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	.0	.0	.7		1.3
NE	.5	.0	1.2	.9		2.9
E	9.5	7.6	5.5	2.6		3.9
SE	8.0	6.8	11.8	3.8		4.5
S	.8	2.0	3.6	.8		3.5
SW	1.2	3.4	3.8	.5		4.2
W	1.5	4.4	2.7	3.8		3.6
NW	.3	1.5	2.4	2.1		2.4
VAR	.0	.0	.0	.0		.0
CALM	1.4	1.8	1.9	1.1		2.5
TOT OBS					283	4.5
TOT PCT	23.3	27.4	33.0	16.4	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.2	.0	.3	.0	.2	.0	.0	.0	.0	.0	.0	
NE	.0	.3	.1	.0	.4	.5	.0	.0	.0	.0	1.2	
E	.0	.0	.3	.5	1.4	1.8	.5	.0	.0	.0	20.5	
SE	.0	.0	.4	1.6	1.0	2.4	1.3	.0	.0	.0	23.7	
S	.0	.0	.4	.0	.2	.5	.6	.0	.0	.0	5.6	
SW	.0	.0	.0	.4	.5	.5	.4	.0	.0	.0	7.2	
W	.6	.0	.6	1.0	1.3	1.0	.1	.0	.0	.0	7.8	
NW	.4	.0	.0	.6	.1	.9	.0	.0	.0	.0	4.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.4	.5	.3	.3	.0	.0	.0	4.6	
TOT OBS												283
TOT PCT	1.2	.3	2.1	4.6	5.7	7.9	3.2	.0	.0	.0	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 >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	1.6	2.7	3.3	3.3	3.3	3.3	3.3	3.3
* OR >2000	8.7	9.7	10.7	10.7	11.0	11.0	11.0	11.0
* OR >1000	13.4	15.1	16.5	16.5	16.7	16.7	16.7	16.7
* OR >600	16.6	19.5	20.9	20.9	21.1	21.1	21.1	21.1
* OR >300	17.7	21.5	22.9	22.9	23.1	23.1	23.1	23.1
* OR >150	17.7	21.5	22.9	22.9	23.5	23.5	23.5	23.5
* OR > 0	17.7	21.5	23.2	23.8	24.4	24.7	24.7	24.7

TOTAL NUMBER OF OBS: 295 PCT FREQ NH <5/8: 75.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
5.5	15.1	23.6	17.9	12.3	7.7	5.9	4.7	6.2	1.2	312

ANNUAL

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1854-1973

AREA 0011 SOUTH CENTRAL JAVA
7.8S 110.0E

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	.3	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
	TOT %	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.5	
1/2<1	PCP	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.4	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.4	
1<2	PCP	.0	.0	.2	.2	.0	.0	.3	.3	.0	.0	.8	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.2	.2	.0	.0	.3	.3	.0	.0	.8	
2<5	PCP	.5	.0	.0	.2	.0	.1	.0	.1	.0	.0	.9	
	NO PCP	.1	.3	.2	.3	.1	.1	.3	.1	.0	.3	1.8	
	TOT %	.6	.3	.2	.4	.1	.2	.3	.2	.0	.3	2.6	
5<10	PCP	.1	*	.9	1.4	.3	.4	.4	.2	.0	.1	3.8	
	NO PCP	.3	.4	4.8	5.6	1.5	.3	1.4	.6	.0	.3	15.0	
	TOT %	.4	.4	5.7	7.0	1.8	.7	1.7	.7	.0	.3	18.8	
10+	PCP	.0	.0	.5	.5	.0	.2	.3	.5	.0	.4	2.3	
	NO PCP	1.0	2.4	20.1	23.4	4.9	6.8	7.6	4.0	.0	4.2	74.5	
	TOT %	1.0	2.4	20.7	23.9	4.9	7.0	7.9	4.5	.0	4.6	76.9	
	TOT OBS												652
	TOT PCT	2.0	3.3	26.8	31.5	6.9	7.4	10.5	6.0	.0	5.1	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	*	.0	.0	*	*	.0		.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<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	.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	*	.1	*	.0		.2	
	11-21	.0	.0	*	.1	.0	.0	*	*	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	*	.1	.0	*	.1	.1	.0	.0	.3	
2<5	0-3	.1	.0	.3	.1	.1	*	*	.1	.0	.1	.8	
	4-10	.1	.1	.2	.1	*	.2	.3	.3	.0		1.3	
	11-21	.0	.0	.0	.1	.0	*	*	*	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	*	.0	.0		*	
	TOT %	.3	.1	.4	.3	.1	.3	.4	.4	.0	.1	2.4	
5<10	0-3	*	.0	.1	.2	.1	*	.4	.1	.0	.4	1.4	
	4-10	.3	.2	1.1	1.8	.5	.4	.7	.4	.0		5.5	
	11-21	.0	.0	1.0	1.0	.2	.2	.3	.1	.0		2.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.2	2.2	3.0	.8	.6	1.4	.7	.0	.4	9.7	
10+	0-3	.6	.9	1.3	2.0	1.7	1.3	1.7	1.3	.0	4.7	15.5	
	4-10	1.6	2.5	12.8	18.0	4.9	4.0	3.8	3.0	.0		50.6	
	11-21	.1	.2	6.7	10.1	.4	1.2	1.4	.4	.0		20.8	
	22+	.0	.0	.1	.1	.0	.1	.1	.1	.0		.4	
	TOT %	2.4	3.6	20.9	30.3	7.0	6.6	7.1	4.9	.0	4.7	87.4	
	TOT OBS												2297
	TOT PCT	3.0	3.9	23.5	33.7	8.0	7.5	9.0	6.2	.0	5.1	100.0	

ANNUAL

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1854-1973

AREA 0011 SOUTH CENTRAL JAVA
7.8S 110.0E

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	1.0	.0	1.0	9.2	8.0	7.1	5.3	.0	.0	.0	31.7	68.3	76
06E09	.0	.0	1.7	2.4	4.9	4.8	1.4	.0	.0	.0	15.1	84.9	81
12E15	2.1	.0	2.7	3.0	2.8	12.2	.6	.0	.0	.0	23.4	76.6	82
18E21	1.7	1.0	2.6	2.9	7.0	4.0	7.2	.0	.0	.0	26.4	73.6	67
TOT													306
PCT	1.2	.3	1.9	4.2	5.6	7.4	3.2	.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	.0	.0	1.2	2.6	9.0	87.2	423
06E09	.2	.0	.2	1.0	7.3	91.4	673
12E15	.2	.2	.2	2.3	11.6	85.5	499
18E21	.1	.1	.4	3.3	11.2	84.9	735
TOT							2330
PCT	.1	.1	.4	2.3	9.9	87.2	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	1.0	2.1	13.9	18.7	67.5	73
06E09	.0	2.1	5.4	11.5	83.1	80
12E15	2.1	5.7	8.7	15.7	75.6	78
18E21	1.7	5.6	14.1	15.4	62.2	64
TOT						295
PCT	1.2	3.8	10.4	15.1	74.5	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	.8	.1	.0		1.2
85/89	.0	.0	.0	.0	2.6	6.8	1.9	.7		12.0
80/84	.0	.0	.0	.0	4.4	21.3	30.9	5.7		62.3
75/79	.0	.0	.0	.0	.0	3.0	13.6	6.2		22.8
70/74	.0	.0	.0	.0	.0	.0	.4	1.3		1.7
TOTAL									403	100.0
PCT	.0	.0	.0	.0	7.4	31.9	46.9	13.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.4	.2	.0	.0	.2	.0	.0	.5
	.3	.3	2.3	3.7	.1	2.0	2.0	.7	.0	.0
	.3	1.5	17.6	16.6	4.8	5.7	7.1	5.0	.0	3.8
	.3	.3	7.4	8.6	1.4	.5	2.3	1.0	.0	.9
	.0	.4	.0	.3	.9	.0	.0	.0	.0	.0
	.9	2.5	27.7	29.4	7.3	8.2	11.6	6.7	.0	5.8

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	89	85	84	80	76	74	72	80.0	787
06E09	92	88	87	82	78	77	73	82.4	1444
12E15	88	84	83	81	77	75	72	80.6	957
18E21	85	83	82	80	76	74	71	79.3	1595
TOT	92	87	85	81	77	75	71	80.6	4783

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	1.2	4.3	21.6	54.9	18.0	84	105
06E09	.0	.0	19.9	52.7	24.1	3.3	76	119
12E15	.0	.0	.0	35.3	49.7	14.9	84	125
18E21	.0	.0	1.7	22.2	60.9	15.2	84	76
TOT	0	1	31	128	193	72	82	425

ANNUAL

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1854-1973

AREA 0011 SOUTH CENTRAL JAVA
7.85 110.0E

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	69 72	73 76	77 80	[illegible]	85 88	89 92	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	.2	.2	2	.0	.4
7/8	.0	.0	.0	.0	.7	.0	3	.0	.7
6	.0	.0	.0	.0	.0	.6	3	.0	.6
5	.0	.0	.0	.4	.3	.4	5	.0	1.1
4	.0	.0	.7	.0	1.4	.0	10	.0	2.1
3	.0	.0	.0	2.2	1.3	.0	17	.0	3.5
2	.0	.2	1.9	3.8	1.7	.0	34	.4	7.2
1	.0	.3	.4	1.9	.9	.0	17	.0	3.6
0	.3	2.2	6.6	13.5	1.7	.0	110	.7	23.4
-1	.0	.5	5.1	8.0	.7	.0	67	.0	14.3
-2	.2	.3	5.0	12.5	.1	.0	86	.0	18.4
-3	.0	.0	4.1	4.3	.2	.0	39	.0	8.6
-4	.3	.6	2.1	6.1	.3	.0	43	.0	9.3
-5	.0	.8	2.0	.9	.0	.0	15	.0	3.6
-6	.0	.5	.2	.1	.0	.0	4	.0	.8
-7/-8	.0	.4	.4	.3	.0	.0	6	.0	1.0
-9/-10	.3	.2	.0	.0	.0	.0	2	.0	.5
TOTAL							463		
PCT	1.0	5.8	28.4	54.1	9.5	1.2	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	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.5	.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	.0	.5	.0	.0	.0	.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	.0	.6	.0	.0	.0	.6
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	.1	.7	.0	.0	.0	.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.6	.0	.0	.0	.0	1.1
1-2	.0	3.3	.0	.0	.0	.0	3.3
3-4	.0	3.6	5.5	.0	.0	.0	9.1
5-6	.0	1.8	6.0	.0	.0	.0	7.8
7	.0	.0	1.7	.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	.6	9.2	13.2	.0	.0	.0	23.0

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	2.2	.0	.0	.0	14.7
3-4	.0	1.2	5.7	.0	.0	.0	6.9
5-6	.0	.0	8.2	.0	.0	.0	8.2
7	.0	.0	1.1	.0	.0	.0	1.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	13.7	17.2	.0	.0	.0	30.9

ANNUAL

PERIOD: (OVER-ALL) 1963-1973

AREA 0011 SOUTH CENTRAL JAVA
7.8S 110.0E

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	.7	3.4	.0	.0	.0	.0	4.1
1-2	.0	4.4	.6	.0	.0	.0	5.0	.0	2.2	4.2	.0	.0	.0	6.4
3-4	.0	1.2	.4	.0	.0	.0	1.6	.0	.0	.1	.0	.0	.0	.1
5-6	.0	1.7	.0	.0	.0	.0	1.7	.0	.0	2.8	.0	.0	.0	2.8
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.3	.9	.0	.0	.0	8.2	.7	5.6	7.2	.0	.0	.0	13.5

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	2.0	1.3	.0	.0	.0	.0	3.3	.1	.8	.0	.0	.0	.0	.9	
1-2	.0	5.1	1.0	.0	.0	.0	6.1	.0	1.1	.0	.0	.0	.0	1.1	
3-4	.0	1.3	1.7	.0	.0	.0	3.0	.0	.0	2.4	.0	.0	.0	2.4	
5-6	.0	.0	.4	.8	.0	.0	1.2	.0	.6	.9	.0	.0	.0	1.5	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.8	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.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	7.7	3.1	.8	.0	.0	13.6	.1	2.4	3.3	.8	.0	.0	6.6	97.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.9	6.4	.0	.0	.0	.0	14.2	
1-2	.0	27.9	8.2	.0	.0	.0	36.1	
3-4	.0	7.3	16.4	.0	.0	.0	23.7	
5-6	.0	3.9	18.0	.8	.0	.0	22.6	
7	.0	.0	2.7	.8	.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	
								136
TOT PCT	7.9	45.4	45.3	1.5	.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	4.2	10.6	12.5	6.6	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	72	3
6-7	.0	1.6	5.7	6.9	3.5	.6	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	40	5
8-9	.0	1.1	3.6	4.0	5.5	.8	1.1	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42	6
10-11	.0	.3	1.1	3.7	3.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	5
12-13	.0	.0	1.0	2.4	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	5
>13	.0	.0	.0	1.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	6
INDET	5.7	2.5	1.3	1.6	1.4	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31	2
TOTAL																				218	4
PCT	9.9	16.1	25.2	26.1	15.5	2.8	2.4	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1854-1973

AREA 0011 SOUTH CENTRAL JAVA
7.8S 110.0E

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	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.5	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	3	.1
87/88	1.3	1.6	1.7	.9	.7	.0	.0	.0	.0	.0	.0	.0	24	.5
85/86	7.9	10.7	17.2	15.3	8.7	2.8	.2	.0	.0	1.1	1.9	3.8	293	6.5
83/84	40.6	40.2	42.1	53.6	43.7	20.5	6.9	2.4	.9	3.5	19.5	38.5	1159	25.6
81/82	45.1	33.9	33.0	27.1	34.3	39.9	19.2	7.6	7.4	28.6	52.3	49.5	1363	30.1
79/80	5.1	6.4	5.4	2.2	9.0	18.3	16.1	20.0	20.6	38.0	22.8	8.2	653	14.4
77/78	.0	.7	.6	.9	2.8	8.0	28.1	30.5	39.7	19.9	3.5	.0	547	12.1
75/76	.0	.0	.0	.0	.5	7.2	17.6	24.3	23.0	8.1	.0	.0	326	7.2
73/74	.0	.0	.0	.0	.0	3.3	10.3	12.7	6.3	.8	.0	.0	135	3.0
71/72	.0	.0	.0	.0	.0	.0	1.6	2.4	1.6	.0	.0	.0	22	.5
69/70	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	2	*
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	315	425	349	457	423	361	448	370	431	371	369	208	4527	100.0
MEAN	82.6	82.9	83.0	83.1	82.4	80.6	78.1	77.2	77.3	79.4	81.4	82.1	80.8	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1011	1010	1010	1008	1011	1010	1009	1009	1011	89
FEB	1011	1010	1010	1008	1010	1010	1009	1009	1010	132
MAR	1010	1011	1009	1008	1009	1010	1009	1009	1009	50
APR	1010	1007	1009	1007	1009	1009	1009	1008	1009	76
MAY	1010	1013	1010	1010	1010	1013	1009	1010	1010	61
JUN	1011	1011	1010	1009	1010	1011	1011	1011	1010	67
JUL	1011	1012	1012	1010	1011	1011	1013	1011	1011	76
AUG	1012	1011	1011	1011	1011	1012	1011	1011	1011	54
SEP	1012	1011	1011	1010	1011	1011	1012	1011	1011	61
OCT	1012	1012	1011	1010	1012	1012	1011	1011	1011	45
NOV	1012	1009	1010	1008	1010	1010	1010	1009	1010	59
DEC	1010	1005	1009	1006	1010	1007	1009	1007	1009	52
ANN	1011	1010	1010	1009	1010	1011	1010	1010	1010	823
OBS	152	37	163	66	172	33	115	85		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	1006	1006	1007	1009	1010	1013	1013	1013	1014
FEB	1005	1006	1006	1009	1010	1011	1012	1012	1013
MAR	1005	1005	1006	1008	1009	1010	1012	1013	1014
APR	1005	1005	1006	1008	1009	1010	1012	1012	1013
MAY	1005	1005	1006	1008	1010	1013	1014	1014	1015
JUN	1005	1005	1007	1009	1010	1012	1013	1013	1014
JUL	1005	1005	1008	1010	1011	1013	1015	1016	1017
AUG	1005	1005	1006	1011	1011	1012	1014	1015	1016
SEP	1006	1006	1008	1010	1011	1012	1014	1015	1016
OCT	1009	1009	1009	1010	1012	1012	1013	1013	1014
NOV	1007	1007	1008	1009	1010	1011	1013	1013	1014
DEC	1003	1003	1004	1007	1009	1010	1012	1012	1013

JANUARY

PERIOD: (PRIMARY) 1864-1969
(OVER-ALL) 1855-1969

AREA 0012 SOUTHEAST JAVA
9.1S 114.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	10.8	.0	.0	.0	.0	.0	10.8	21.6	.0	.0	.0	.0	.0	.0		78.4
NE	23.5	35.3	.0	.0	.0	.0	.0	58.8	.0	23.5	.0	.0	.0	.0		41.2
E	16.2	10.8	.0	.0	.0	.0	.0	27.0	10.8	35.1	.0	.0	.0	.0		32.4
SE	9.7	9.7	6.5	.0	.0	.0	.0	25.8	.0	11.3	.0	.0	.0	.0		72.6
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	13.3	.0	.0	.0	.0		86.7
SW	1.9	9.6	.0	.0	.0	.0	.0	11.5	.0	.0	.0	.0	.0	.0		88.5
W	4.3	9.1	.0	.0	.0	.0	.0	13.4	1.4	1.4	2.9	.0	.0	.0		80.8
NW	22.8	5.9	.0	.0	.0	.0	.0	28.7	.0	7.9	.0	.0	.0	.0		71.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
TOT PCT	9.0	8.4	.6	.0	.0	.0	.6	18.7	1.3	6.5	1.3	.0	.0	.0		75.5
TOT OBS:	155															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER 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	9.4	11.3	.0	.0	.0	.0	.0	20.8	3.8	1.9	.0	.0	.0	.0		75.5
06&09	2.8	8.3	2.8	.0	.0	.0	.0	13.9	.0	5.6	2.8	.0	.0	.0		77.8
12&15	10.6	6.4	.0	.0	.0	.0	2.1	19.1	.0	8.5	.0	.0	.0	.0		74.5
18&21	18.2	3.0	.0	.0	.0	.0	.0	21.2	.0	15.2	2.0	.0	.0	.0		72.7
TOT PCT	10.1	7.7	.6	.0	.0	.0	.6	18.9	1.2	7.1	1.2	.0	.0	.0		75.1
TOT OBS:	169															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	1.1	.1	.0	.0	.0		2.2	5.4	1.8	4.1	4.5	2.1	1.7	1.2	.0	.3
NE	1.1	.9	.2	.0	.0	.0		2.2	4.5	2.3	2.1	6.8	.4	2.0	3.3	.0	2.6
E	.9	1.7	.0	.0	.0	.0		2.7	4.4	1.6	3.2	2.3	2.5	4.4	2.5	8.3	.7
SE	2.8	4.4	.3	.0	.0	.0		7.5	5.1	6.7	5.9	.0	7.5	10.8	8.3	8.3	7.9
S	2.6	5.1	.9	.1	.0	.0		8.7	6.4	7.4	9.5	4.5	10.0	9.0	9.1	.0	7.6
SW	3.9	10.9	5.6	.8	*	.0		21.2	8.8	18.8	19.5	10.2	25.0	19.2	22.3	27.1	25.2
W	3.6	18.7	13.4	4.9	.6	.0		41.3	12.0	44.3	39.2	64.8	38.2	42.7	40.1	39.6	41.1
NW	1.0	4.5	2.4	.9	.6	.0		9.4	12.4	9.9	8.6	6.8	10.7	6.7	9.9	16.7	11.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.0							5.0	.0	7.1	8.0	.0	3.6	3.5	3.3	.0	3.3
TOT OBS	223	494	234	69	13	0	1023		9.3	141	264	22	140	172	121	12	151
TOT PCT	21.8	47.3	22.9	6.7	1.3	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.4	.8	.0	.0	.0		2.2	5.4	3.3	2.5	1.5	.3
NE	1.7	.4	.0	.0	.0		2.2	4.5	2.2	1.2	2.6	2.5
E	2.3	.3	.0	.0	.0		2.7	4.4	2.7	2.5	3.6	1.2
SE	5.6	1.9	*	.0	.0		7.5	5.1	6.2	6.5	9.7	8.0
S	5.1	3.1	.4	.0	.0		8.7	6.4	8.8	9.3	9.0	7.1
SW	9.6	8.6	2.7	.2	.0		21.2	8.8	19.3	23.0	20.5	25.3
W	11.9	18.2	8.9	2.1	.3		41.3	12.0	41.0	41.8	41.6	41.0
NW	3.1	4.1	1.2	.8	.2		9.4	12.4	9.1	10.2	8.0	11.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.0						5.0	.0	7.7	3.1	3.4	3.1
TOT OBS	467	383	136	32	5	1023		9.3	405	162	293	163
TOT PCT	45.7	37.4	13.3	3.1	.5		100.0		100.0	100.0	100.0	100.0

JANUARY

PERIOD: (PRIMARY) 1864-1969
(OVER-ALL) 1855-1969

AREA 0012 SOUTHEAST JAVA
9.15 114.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00603	7.7	17.8	42.2	23.7	6.7	2.0	.0	9.3	100.0	405
06609	3.1	12.3	50.6	23.5	9.9	.6	.0	10.3	100.0	162
12615	3.4	16.4	50.2	24.2	4.8	1.0	.0	9.0	100.0	293
18621	3.1	19.6	51.5	17.8	7.4	.6	.0	8.5	100.0	163
TOT	31	172	484	234	69	13	0	9.3		1023
PCT	5.0	16.8	47.3	22.9	6.7	1.3	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	1.9	.0		7.0
NE	.5	1.9	.9	.0		4.5
E	1.4	1.9	5.7	.0		5.1
SE	1.9	.0	4.7	.0		4.7
S	.9	2.8	.0	.0		2.5
SW	3.8	5.2	.5	.0		2.7
W	10.4	18.4	11.3	10.4		4.4
NW	3.8	1.9	2.8	4.7		4.5
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	1.9		8.0
TOT OBS	12	17	15	9	53	4.3
TOT PCT	22.6	32.1	28.3	17.0	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	1.9	
NE	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	2.4	
E	.0	.0	.0	.0	.0	1.9	.0	.0	.0	.0	7.1	
SE	.0	.0	.0	.0	1.9	.9	.0	.0	.0	.0	3.8	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.4	
W	.0	.0	.0	1.9	2.8	5.7	1.9	.0	.0	.0	38.7	
NW	.0	.0	.0	.0	4.7	.0	.0	.0	.0	.0	8.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	
TOT OBS	0	0	0	1	5	5	1	0	0	0	41	53
TOT PCT	.0	.0	.0	1.9	9.4	9.4	1.9	.0	.0	.0	77.4	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >500YD	= OR >0
= OR >6500	.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	5.3	8.8	10.5	10.5	10.5	10.5	10.5	10.5
= OR >1000	10.5	17.5	19.3	19.3	19.3	19.3	19.3	19.3
= OR >600	12.3	21.1	22.8	22.8	22.8	22.8	22.8	22.8
= OR >300	12.3	21.1	22.8	22.8	22.8	22.8	22.8	22.8
= OR >150	12.3	21.1	22.8	22.8	22.8	22.8	22.8	22.8
= OR > 0	12.3	21.1	22.8	22.8	22.8	22.8	22.8	22.8
TOTAL	7	12	13	13	13	13	13	13

TOTAL NUMBER OF OBS: 57 PCT FREQ NH <5/8: 77.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
12.5	7.8	21.9	23.4	7.8	7.8	3.1	3.1	12.5	.0	64

JANUARY

PERIOD: (PRIMARY) 1864-1969
(OVER-ALL) 1855-1969

AREA 0012 SOUTHEAST JAVA
9.1S 114.3E

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	.3	1.0	.0	.0	.0	1.3	
	TOT %	.0	.0	.0	.0	.0	.3	1.0	.0	.0	.0	1.3	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6	
	TOT %	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	1.3	
2<5	PCP	.6	.3	.3	.0	.0	.2	1.1	.0	.0	.0	2.6	
	NO PCP	.0	.0	.5	.2	.0	.0	.0	.0	.0	.0	.6	
	TOT %	.6	.3	.8	.2	.0	.2	1.1	.0	.0	.0	3.2	
5<10	PCP	.6	1.3	1.0	2.3	.0	.4	5.9	2.6	.0	.0	12.3	
	NO PCP	1.6	.0	.6	4.2	1.6	1.9	14.8	4.8	.0	.0	29.7	
	TOT %	2.3	1.3	1.6	6.5	1.6	2.6	18.7	7.4	.0	.0	41.9	
10+	PCP	.0	.0	.3	.3	.0	.2	1.0	1.5	.0	.0	3.2	
	NO PCP	3.1	1.1	3.2	3.1	3.2	5.2	22.7	6.1	.0	1.3	49.0	
	TOT %	3.1	1.1	3.5	3.4	3.2	5.9	23.7	7.6	.	1.3	52.3	
	TOT OBS												155
	TOT PCT	6.0	2.7	6.0	10.0	4.8	8.4	44.5	16.3	.0	1.3	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.4	.0	.0		.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.2	.2	.0	.0		.4	
	TOT %	.0	.0	.0	.0	.0	.2	.7	.0	.0	.0	.9	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.4	.4	.0		.9	
	11-21	.0	.0	.0	.0	.0	.0	.0	.4	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.4	.9	.0	.0	1.3	
2<5	0-3	.4	.0	.3	.1	.0	.0	.0	.0	.0	.0	.9	
	4-10	.0	.2	.2	.0	.0	.0	.0	.0	.0		.4	
	11-21	.0	.0	.0	.0	.0	.0	.9	.0	.0		.9	
	22+	.0	.0	.0	.0	.0	.1	.3	.0	.0		.4	
	TOT %	.4	.2	.6	.1	.0	.1	1.2	.0	.0	.0	2.6	
5<10	0-3	.2	.0	.2	1.1	.0	.0	.2	.4	.0	.0	2.2	
	4-10	1.3	.0	.9	2.4	1.1	.7	4.4	2.0	.0		12.8	
	11-21	.0	.9	.0	.9	.0	.4	6.2	2.6	.0		11.0	
	22+	.0	.0	.0	.0	.0	.7	2.2	.7	.0		3.5	
	TOT %	1.5	.9	1.1	4.4	1.1	1.8	13.0	5.7	.0	.0	29.5	
10+	0-3	.4	.0	1.4	3.6	2.4	1.1	3.9	1.7	.0	6.2	20.7	
	4-10	1.7	.8	1.7	4.2	2.6	5.8	16.0	5.2	.0		37.9	
	11-21	.4	.0	.0	.0	.0	.7	3.4	1.2	.0		5.7	
	22+	.0	.0	.0	.0	.0	.0	1.3	.0	.0		1.3	
	TOT %	2.5	.8	3.1	7.8	5.1	7.6	24.6	8.0	.0	6.2	65.6	
	TOT OBS												227
	TOT PCT	4.5	1.9	4.7	12.3	6.2	9.7	39.9	14.6	.0	6.2	100.0	

JANUARY

PERIOD: (PRIMARY) 1964-1969
(OVER-ALL) 1955-1969

AREA 0012 SOUTHEAST JAVA
9.1S 114.3E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00603	.0	.0	.0	.0	11.1	5.6	.0	.0	.0	.0	16.7	83.3	18
06609	.0	.0	.0	5.9	5.9	11.8	.0	.0	.0	.0	23.5	76.5	17
12615	.0	.0	.0	.0	7.1	14.3	.0	.0	.0	.0	21.4	78.6	14
18621	.0	.0	.0	9.1	9.1	.0	9.1	.0	.0	.0	27.3	72.7	11
TOT	0	0	0	2	5	5	1	0	0	0	13	47	60
PCT	.0	.0	.0	3.3	8.3	8.3	1.7	.0	.0	.0	21.7	78.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	.0	1.3	.0	2.7	26.7	69.3	75
06609	.0	.0	.0	2.1	31.9	66.0	47
12615	.0	.0	4.2	4.2	31.0	60.6	71
18621	.0	2.1	.0	.0	37.5	60.4	48
TOT	0	2	3	6	75	155	241
PCT	.0	.8	1.2	2.5	31.1	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 <500YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00603	.0	.0	.0	16.7	83.3	18
06609	.0	.0	13.3	13.3	73.3	15
12615	.0	.0	7.7	23.1	69.2	13
18621	.0	9.1	18.2	18.2	63.6	11
TOT	0	1	5	10	42	57
PCT	.0	1.8	8.8	17.5	73.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	1.1	6.5	3.3	1.1	11	12.0
80/84	.0	.0	.0	.0	.0	22.8	45.7	2.2	65	70.7
75/79	.0	.0	.0	.0	.0	.0	6.5	10.9	16	17.4
TOTAL	0	0	0	0	1	27	51	13	92	100.0
PCT	.0	.0	.0	.0	1.1	29.3	55.4	14.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	1.6	.5	.0	.0	1.1	1.9	6.3	.8	.0	.0
	2.7	.0	3.0	7.9	1.1	6.0	40.8	9.2	.0	.0
	.0	2.7	1.6	2.2	.0	1.6	3.8	5.4	.0	.0
	4.1	3.3	4.6	10.1	2.2	9.5	50.8	15.5	.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
00603	94	92	89	84	76	77	75	83.8	396
06609	93	92	90	84	81	76	75	84.4	152
12615	89	88	86	82	77	75	73	82.4	267
18621	87	86	84	81	78	76	74	81.2	156
TOT	94	91	88	83	78	76	73	83.1	971

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	.0	.0	37.5	50.0	12.5	82	32
06609	.0	.0	4.8	38.1	42.9	14.3	81	21
12615	.0	.0	.0	23.3	66.7	10.0	83	30
18621	.0	.0	.0	15.0	55.0	30.0	87	20
TOT	0	0	1	30	56	16	83	103

JANUARY

PERIOD: (PRIMARY) 1864-1969
(OVER-ALL) 1855-1969

AREA 0012 SOUTHEAST JAVA
9.1S 114.3E

TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
5	.0	.0	.0	.0	.8	1	.0	.8
4	.0	.0	.0	1.7	.8	3	.0	2.5
3	.0	.0	.8	1.7	.0	3	.0	2.5
2	.0	.0	3.3	2.5	.0	7	.0	5.8
1	.0	.8	7.5	2.5	.0	13	.8	10.0
0	.0	.0	23.3	5.0	.0	34	.8	27.5
-1	.0	.0	10.8	2.5	.0	16	.0	13.3
-2	.0	2.5	5.0	1.7	.0	11	.0	9.2
-3	.0	3.3	5.0	.8	.0	11	.0	9.2
-4	.8	5.0	2.5	.0	.0	10	.0	8.3
-5	.8	1.7	.0	.0	.0	3	.0	2.5
-6	.8	2.5	.0	.0	.0	4	.0	3.3
-7/-8	.8	1.7	.0	.0	.0	3	.0	2.5
-9/-10	.8	.0	.0	.0	.0	1	.0	.8
TOTAL	5	21	70	22	2	120	2	118
PCT	4.2	17.5	58.3	18.3	1.7	100.0	1.7	98.3

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.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) 1963-1969

JANUARY

TABLE 18 (CONT)

AREA 0012 SOUTHEAST JAVA
9.1S 114.3E

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	3.8	.0	.0	.0	.0	3.8
3-4	.0	3.8	.0	.0	.0	.0	3.8	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	1.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	1.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.8	.0	.0	.0	.0	3.8	.0	3.8	1.9	.0	.0	.0	5.8

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	7.7	3.8	.0	.0	.0	.0	11.5	.0	7.7	.0	.0	.0	.0	7.7	
1-2	.0	23.1	3.8	.0	.0	.0	26.9	.0	3.8	.0	.0	.0	.0	3.8	
3-4	.0	3.8	7.7	.0	.0	.0	11.5	.0	.0	7.7	.0	.0	.0	7.7	
5-6	.0	.0	10.6	.0	.0	.0	10.6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	2.9	.0	.0	.0	2.9	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	3.8	.0	.0	3.8	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.7	30.8	25.0	3.8	.0	.0	67.3	.0	11.5	7.7	.0	.0	.0	19.2	96.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.1	11.1	.0	.0	.0	.0	22.2	
1-2	.0	33.3	3.7	.0	.0	.0	37.0	
3-4	.0	7.4	14.8	.0	.0	.0	22.2	
5-6	.0	.0	11.1	.0	.0	.0	11.1	
7	.0	.0	3.7	.0	.0	.0	3.7	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	3.7	.0	.0	3.7	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.1	51.9	33.3	3.7	.0	.0	100.0	27

PERIOD: (OVER-ALL) 1951-1969

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	2.4	9.8	14.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	2
6-7	.0	.0	9.8	2.4	2.4	4.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	5
8-9	.0	2.4	.0	4.9	9.8	.0	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	6
10-11	.0	.0	2.4	.0	2.4	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	6
12-13	.0	.0	.0	.0	.0	4.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	8
>13	.0	.0	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDET	12.2	2.4	.0	.0	4.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	2
TOTAL	6	6	11	4	8	3	0	1	0	0	0	0	0	0	0	0	0	0	0	41	4
PCT	14.6	14.6	26.8	9.8	19.5	12.2	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1864-1973
(OVER-ALL) 1855-1973

AREA 0012 SOUTHEAST JAVA
9.0S 114.1E

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	.0	7.6	.0	.0	.0	.0	6.1	13.6	4.5	13.6	.0	.0	.0	.0		74.2
NE	7.1	14.3	.0	.0	.0	.0	.0	21.4	.0	.0	.0	.0	.0	.0		78.6
E	19.6	.0	.0	.0	.0	.0	.0	19.6	.0	23.5	3.9	.0	.0	.0		60.8
SE	16.0	.0	.0	.0	.0	.0	.0	16.0	.0	.0	8.0	.0	.0	.0		76.0
S	.0	21.6	.0	.0	.0	.0	.0	21.6	.0	10.8	10.8	.0	.0	.0		56.8
SW	6.9	.0	.0	.0	.0	.0	.0	6.9	.0	4.3	.0	.0	.0	.0		88.8
W	16.8	2.0	.0	.0	.0	.0	.0	18.8	4.0	8.4	.0	.0	.0	.0		71.8
NW	3.5	1.8	.0	.0	.0	.0	.0	5.3	.6	2.9	.0	.0	2.3	.0		90.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	20.0	.0	.0	.0	.0	.0	.0	20.0	.0	20.0	.0	.0	.0	.0		60.0
TOT PCT	9.5	3.4	.0	.0	.0	.0	.6	13.4	1.7	7.8	1.1	.0	.6	.0		77.7
TOT OBS:	179															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER 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	7.1	5.7	.0	.0	.0	.0	.0	12.9	.0	1.4	1.4	.0	.0		.0	85.7
06&09	14.3	5.7	.0	.0	.0	.0	.0	20.0	2.9	.0	2.9	.0	.0		.0	74.3
12&15	9.4	1.6	.0	.0	.0	.0	.0	10.9	1.6	14.1	.0	.0	1.6		.0	73.4
18&21	9.1	.0	.0	.0	.0	.0	3.0	12.1	3.0	24.2	.0	.0	.0		.0	69.7
TOT PCT	9.4	3.5	.0	.0	.0	.0	.5	13.4	1.5	8.9	1.0	.0	.5		.0	77.2
TOT OBS:	202															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	2.7	.8	.1	.0	.0		4.4	7.5	2.4	5.5	8.8	3.7	5.8	2.9	13.5	2.5
NE	1.9	1.8	.2	.0	.0	.0		3.9	4.3	3.8	7.0	.0	2.1	3.0	2.9	.0	3.0
E	1.3	3.5	.5	.0	.0	.0		5.3	5.7	5.0	7.7	3.8	3.3	2.7	4.5	7.7	7.6
SE	1.0	4.2	.7	.0	.0	.0		6.0	6.7	2.1	7.2	1.3	9.1	8.2	3.3	.0	5.1
S	3.0	5.0	.3	.0	.0	.0		8.3	5.1	4.2	6.6	3.8	9.9	11.0	7.4	7.7	9.7
SW	2.1	9.7	4.3	.3	.1	.0		16.4	8.6	11.4	13.4	15.0	20.2	18.2	14.0	11.5	23.7
W	3.6	14.7	11.4	1.7	.4	.0		31.8	10.7	36.2	28.9	40.0	34.7	30.6	35.5	32.7	26.7
NW	3.6	7.3	4.4	.9	.1	.0		16.2	9.0	27.1	15.1	27.5	10.3	12.9	16.9	19.2	16.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.6							7.6	.0	5.7	8.5	.0	6.6	7.5	12.4	7.7	5.1
TOT OBS	226	444	205	26	5	0	906		7.9	105	235	20	121	173	121	13	118
TOT PCT	24.9	49.0	22.6	2.9	.6	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.6	1.5	.4	.0	.0		4.4	7.5	4.6	4.4	4.6	3.6
NE	3.2	.7	.0	.0	.0		3.9	4.3	6.0	1.8	3.0	2.7
E	3.9	1.4	.1	.0	.0		5.3	5.7	6.8	3.4	3.5	7.6
SE	3.8	2.0	.3	.0	.0		6.0	6.7	5.7	8.0	6.2	4.6
S	6.2	2.0	.1	.0	.0		8.3	5.1	6.5	9.0	9.5	9.5
SW	7.4	7.4	1.6	.1	.1		16.4	8.6	12.8	19.5	16.5	22.5
W	9.9	16.0	5.2	.6	.2		31.8	10.7	31.2	35.5	32.7	27.3
NW	7.3	6.8	1.9	.3	.0		16.2	9.0	18.8	12.8	14.5	16.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	7.6						7.6	.0	7.6	5.7	9.5	5.3
TOT OBS	469	241	86	8	2	906		7.9	340	141	294	131
TOT PCT	51.8	37.6	9.5	.9	.2		100.0		100.0	100.0	100.0	100.0

FEBRUARY

PERIOD: (PRIMARY) 1964-1973
(OVER-ALL) 1855-1973

AREA 0012 SOUTHEAST JAVA
9.05 114.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
				WIND SPEED (KNOTS)						
00603	7.6	20.3	48.5	19.7	3.2	.6	.0	7.6	100.0	340
06609	5.7	16.3	47.5	27.0	2.8	.7	.0	8.6	100.0	141
12615	9.5	15.6	49.0	22.8	2.7	.3	.0	7.7	100.0	254
18621	5.3	14.5	51.9	25.2	2.3	.8	.0	8.2	100.0	131
TOT	69	157	444	205	26	5	0	7.9		906
PCT	7.6	17.3	49.0	22.6	2.9	.6	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	3.5	1.5		7.3
NE	.0	.0	.0	.0		.0
E	2.0	1.5	3.5	.0		3.4
SE	.0	.5	.5	.0		4.0
S	2.0	1.5	.0	.0		1.8
SW	2.5	5.0	5.5	.0		4.0
W	9.0	1.5	15.5	14.0		5.6
NW	4.5	6.0	7.5	6.5		5.1
VBR	.0	.0	.0	.0		.0
CALM	2.0	4.0	.0	.0		2.3
TOT OBS	11	10	18	11	50	4.8
TOT PCT	22.0	20.0	36.0	22.0	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	3.5	.0	.0	.0	.0	.0	1.5	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
E	.0	.0	.0	.0	.0	2.0	.0	.0	.0	.0	5.0	
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	
SW	.0	.0	.0	.0	.5	.0	.0	.5	.0	.0	12.0	
W	.0	.0	1.5	2.0	11.5	2.0	.0	3.0	.0	.0	20.0	
NW	.0	.0	.5	2.0	4.5	.0	.0	.5	.0	.0	17.0	
VBR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	
TOT OBS	0	0	1	2	10	2	0	2	0	0	33	50
TOT PCT	.0	.0	2.0	4.0	20.0	4.0	.0	4.0	.0	.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	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
* OR >3500	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
* OR >2000	5.5	5.5	7.3	7.3	7.3	7.3	7.3	7.3
* OR >1000	18.2	23.6	27.3	27.3	27.3	27.3	27.3	27.3
* OR >600	20.0	27.3	30.9	30.9	30.9	30.9	30.9	30.9
* OR >300	21.8	29.1	32.7	32.7	32.7	32.7	32.7	32.7
* OR >150	21.8	29.1	32.7	32.7	32.7	32.7	32.7	32.7
* OR > 0	21.8	29.1	32.7	32.7	32.7	32.7	32.7	32.7
TOTAL	12	16	18	18	18	18	18	18

TOTAL NUMBER OF OBS: 55 PCT FREQ NH <5/8: 67.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
5.4	14.3	19.6	21.4	7.1	7.1	10.7	1.8	12.5	.0	56

FEBRUARY

PERIOD: (PRIMARY) 1864-1973
(OVER-ALL) 1855-1973

AREA 0012 SOUTHEAST JAVA
9.0S 114.1E

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	.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	.6	.0	.0	.0	.0	.6	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.6	
2<5	PCP	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	
	NO PCP	.0	.6	.6	.0	.6	1.7	.0	.6	.0	.0	3.9	
	TOT %	.6	.6	.6	.0	.6	1.7	.0	.6	.0	.0	4.5	
5<10	PCP	.3	.8	1.4	.6	1.1	.0	3.1	1.1	.0	.6	8.9	
	NO PCP	3.4	1.4	1.7	1.4	2.0	6.7	4.7	10.1	.0	.0	31.3	
	TOT %	3.6	2.2	3.1	2.0	3.1	6.7	7.8	11.2	.0	.6	40.2	
10+	PCP	.4	.0	.0	.0	.0	.6	2.2	.1	.0	.0	3.4	
	NO PCP	4.6	1.1	3.5	1.5	1.5	6.7	18.2	12.0	.0	2.2	51.4	
	TOT %	5.0	1.1	3.5	1.5	1.5	7.3	20.4	12.2	.0	2.2	54.7	
	TOT OBS												179
	TOT PCT	9.2	3.9	7.1	3.5	5.2	16.2	28.2	23.9	.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	.4	.0	.0	.0	.0	.0	.0	.0	.0		.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	
1<2	0-3	.6	.1	.0	.0	.0	.0	.0	.1	.0	.0	.8	
	4-10	.0	.0	.4	.0	.0	.4	.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 %	.6	.1	.4	.0	.0	.4	.0	.1	.0	.0	1.6	
2<5	0-3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.4	.8	
	4-10	.0	.0	.0	.0	.4	1.2	.0	.4	.0		1.9	
	11-21	.4	.0	.4	.0	.0	.0	.2	.2	.0		1.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.4	.4	.4	.0	.4	1.2	.2	.6	.0	.4	3.9	
5<10	0-3	.3	.8	.4	.0	1.6	.0	.4	1.3	.0	.4	5.1	
	4-10	.8	.8	1.8	1.4	.8	4.1	2.9	3.5	.0		16.0	
	11-21	1.5	.0	.0	.0	.0	.8	2.1	3.0	.0		7.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	2.5	1.6	2.1	1.4	2.3	4.9	5.4	7.8	.0	.4	28.4	
10+	0-3	.6	1.0	1.4	.4	.4	1.9	.8	1.4	.0	6.2	14.0	
	4-10	2.9	1.2	2.7	1.9	1.3	5.4	12.9	5.9	.0		34.2	
	11-21	1.1	.2	.3	.5	.0	2.8	8.7	3.2	.0		16.7	
	22+	.3	.0	.0	.0	.0	.0	.0	.5	.0		.8	
	TOT %	4.9	2.3	4.4	2.8	1.7	10.1	22.4	11.0	.0	6.2	65.8	
	TOT OBS												259
	TOT PCT	8.8	4.4	7.3	4.2	4.4	16.5	28.0	19.5	.0	7.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1864-1973
(OVER-ALL) 1855-1973

AREA 0012 SOUTHEAST JAVA
9.0S 114.1E

TABLE 10

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

HOUR (GMT)	000 149	150 299	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	8.3	.0	.0	.0	.0	.0	.0	.0	8.3	91.7	12
06Z09	.0	.0	.0	5.9	11.8	5.9	.0	5.9	.0	.0	29.4	70.6	17
12Z15	.0	.0	.0	7.7	38.5	.0	.0	7.7	.0	.0	53.8	46.2	13
18Z21	.0	.0	.0	.0	28.6	7.1	.0	.0	.0	.0	35.7	64.3	14
TOT	0	0	1	2	11	2	0	2	0	0	18	38	56
PCT	.0	.0	1.8	3.6	19.6	3.6	.0	3.6	.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
00Z03	.0	.0	1.1	2.1	24.5	72.3	94
06Z09	.0	.0	.0	2.0	30.0	68.0	50
12Z15	.0	1.1	3.3	3.3	33.7	58.7	92
18Z21	.0	.0	.0	9.1	31.8	59.1	44
TOT	0	1	4	10	83	182	280
PCT	.0	.4	1.4	3.6	29.6	65.0	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	8.3	16.7	.0	83.3	12
06Z09	.0	.0	5.9	23.5	70.6	17
12Z15	.0	.0	7.7	46.2	46.2	13
18Z21	.0	.0	15.4	23.1	61.5	13
TOT	0	1	6	13	36	55
PCT	.0	1.8	10.9	23.6	65.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	1.6	5.5	7.0	.0	18	14.1
80/84	.0	.0	.0	.0	1.6	21.1	45.3	7.0	96	75.0
75/79	.0	.0	.0	.0	.0	.8	6.3	2.3	12	9.4
70/74	.0	.0	.0	.0	.0	.0	.8	.8	2	1.6
TOTAL	0	0	0	0	4	35	76	13	128	100.0
PCT	.0	.0	.0	.0	3.1	27.3	59.4	10.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.8	.0	1.2	1.2	.0	2.0	5.5	3.5	.0	.0
	7.2	.4	3.7	2.9	4.9	14.1	20.5	18.9	.0	2.3
	.8	.4	2.0	.0	.0	.0	3.9	1.6	.0	.8
	.0	.0	.0	.0	.0	.0	.8	.8	.0	.0
	8.8	.8	6.8	4.1	4.9	16.0	30.7	24.8	.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
00Z03	92	91	89	84	79	76	74	83.9	339
06Z09	91	90	89	84	80	74	73	83.8	139
12Z15	93	90	86	83	79	77	76	82.7	287
18Z21	90	88	85	82	79	77	75	82.0	133
TOT	93	91	88	83	79	76	73	83.2	898

TABLE 16

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	8.5	23.4	59.6	8.5	81	47
06Z09	.0	.0	4.0	40.0	44.0	12.0	81	25
12Z15	.0	.0	.0	28.3	60.9	10.9	83	46
18Z21	.0	.0	.0	25.0	60.7	14.3	84	28
TOT	0	0	5	41	84	16	82	146

FEBRUARY

PERIOD: (PRIMARY) 1864-1973
(OVER-ALL) 1855-1973

AREA 0012 SOUTHEAST JAVA
9.0S 114.1E

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	>92	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	.0	.7	1	.0	.7
6	.0	.0	.0	.0	.7	.0	1	.0	.7
5	.0	.0	.0	1.4	1.4	.0	4	.0	2.9
3	.0	.0	.7	2.9	.7	.0	6	.0	4.3
2	.0	.7	5.0	5.0	.0	.0	15	.0	10.8
1	.0	.0	6.5	4.3	.0	.0	15	.0	10.8
0	.0	.0	12.2	2.9	.0	.0	21	.7	14.4
-1	.0	.7	12.9	2.2	.0	.0	22	.0	15.8
-2	.0	1.4	17.3	.7	.0	.0	27	.0	19.4
-3	.0	2.9	4.3	.0	.0	.0	10	.0	7.2
-4	1.4	2.2	.0	.0	.0	.0	5	.0	3.6
-5	.0	1.4	2.9	.7	.0	.0	7	.0	5.0
-6	.0	.7	.0	.0	.0	.0	1	.0	.7
-7/-8	.7	.7	.0	.0	.0	.0	2	.0	1.4
-9/-10	.0	.7	.0	.0	.0	.0	1	.0	.7
-11/-13	.7	.0	.0	.0	.0	.0	1	.0	.7
TOTAL	4	16	86	28	4	1	139	1	138
PCT	2.9	11.5	61.9	20.1	2.9	.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	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	3.6	4.8	.0	.0	.0	8.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.6	4.8	.0	.0	.0	8.3

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	.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	11.9	.0	.0	.0	.0	11.9
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	11.9	.0	.0	.0	.0	11.9

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	2.4	.0	.0	.0	.0	2.4
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.4	.0	.0	.0	.0	2.4

PERIOD: (OVER-ALL) 1963-1973

FEBRUARY

AREA 0012 SOUTHEAST JAVA
9.0S 116.1E

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	2.4	4.8	.0	.0	.0	7.1
3-4	.0	1.2	1.2	.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	3.6	6.0	.0	.0	.0	9.5

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	11.9	4.8	.0	.0	.0	16.7
3-4	.0	7.1	8.3	.0	.0	.0	15.5
5-6	.0	.0	14.3	.0	.0	.0	14.3
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	19.0	27.4	.0	.0	.0	46.4

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	.0	.0	.0	.0	.0	.0	
3-4	.0	11.9	.0	.0	.0	.0	11.9	
5-6	.0	.0	9.5	.0	.0	.0	9.5	
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	11.9	9.5	.0	.0	.0	21.4	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	16.0	.0	.0	.0	.0	.0	16.0	
1-2	.0	24.0	8.0	.0	.0	.0	32.0	
3-4	.0	20.0	12.0	.0	.0	.0	32.0	
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	16.0	44.0	40.0	.0	.0	.0	100.0	25

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	2.3	6.8	11.4	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	3
6-7	2.3	.0	6.8	11.4	4.5	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	5
8-9	.0	.0	2.3	9.1	6.8	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	6
10-11	.0	.0	2.3	2.3	6.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	6
12-13	.0	.0	4.5	2.3	.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	6.8	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	1
TOTAL	5	3	13	13	8	2	0	0	0	0	0	0	0	0	0	0	0	0	0	44	4
PCT	11.4	6.8	29.5	29.5	18.2	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1871-1969
(OVER-ALL) 1858-1969

AREA 0012 SOUTHEAST JAVA
9.0S 114.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	9.5	.0	.0	.0	.0	.0	9.5	.0	.0	2.7	.0	.0	.0		87.8
NE	.0	16.1	.0	.0	.0	.0	.0	16.1	.0	.0	6.5	.0	.0	.0		77.4
E	2.0	2.0	.0	.0	.0	.0	.0	4.0	8.0	8.0	4.0	.0	.0	.0		76.0
SE	17.9	12.8	.0	.0	.0	.0	.0	30.8	10.3	15.4	.0	.0	.0	.0		53.8
S	7.9	5.3	.0	.0	.0	.0	.0	13.2	.0	5.3	.0	.0	.0	.0		81.6
SW	7.7	5.1	.0	.0	.0	.0	.0	12.8	.0	5.1	.0	.0	.0	.0		82.1
W	7.1	2.4	.0	.0	.0	.0	.0	9.5	2.4	2.4	.0	.0	1.2	.0		86.9
NW	4.6	.0	.0	.0	.0	.0	.0	4.6	.0	9.2	.0	.0	2.3	.0		88.5
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	11.1	.0	.0	.0	.0		77.8
TOT PCT	6.6	4.9	.0	.0	.0	.0	.0	11.5	2.7	6.0	1.1	.0	.5	.0		80.2
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 WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00203	5.8	5.8	.0	.0	.0	.0	.0	11.6	4.3	1.4	2.9	.0	.0	.0		79.7
06209	5.3	2.6	.0	.0	.0	.0	.0	7.9	2.6	2.6	.0	.0	.0	.0		89.5
12215	10.7	7.1	.0	.0	.0	.0	.0	17.9	1.8	7.1	.0	.0	1.8	.0		76.8
18221	.0	7.3	.0	.0	.0	.0	.0	7.3	.0	14.6	.0	.0	.0	.0		78.0
TOT PCT	5.9	5.9	.0	.0	.0	.0	.0	11.8	2.5	5.9	1.0	.0	.5	.0		80.4
TOT OBS:	204															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.6	3.7	.7	.0	.0	.0		6.0	6.2	4.9	5.6	16.7	1.5	6.6	7.2	10.9	7.5
NE	1.5	3.2	.3	.0	.0	.0		5.0	5.6	4.1	6.7	.0	5.4	6.8	2.8	5.4	2.8
E	2.8	7.2	2.0	.0	.0	.0		12.0	6.9	10.6	14.9	20.8	11.4	9.8	11.7	21.7	8.5
SE	3.9	11.3	2.7	.0	.0	.0		17.9	6.9	21.4	17.3	1.4	20.3	18.8	16.7	4.3	19.3
S	3.2	5.9	.6	.0	.0	.0		9.7	5.5	12.4	11.4	5.6	10.9	8.3	5.6	8.7	9.4
SW	3.2	6.5	2.0	.3	.0	.0		11.9	7.1	10.3	9.9	.0	14.4	15.8	12.2	5.4	12.7
W	2.7	10.3	6.3	2.0	.0	.0		21.2	10.2	18.8	18.1	35.9	25.2	18.0	25.0	28.3	20.8
NW	1.2	5.5	1.9	.6	.0	.0		9.2	9.0	12.4	8.5	5.6	5.9	9.2	7.8	10.9	12.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.0							7.0	.0	5.2	7.6	11.1	5.0	6.8	11.1	4.3	6.6
TOT OBS	200	396	122	21	0	0	739		7.1	97	171	18	101	133	90	23	106
TOT PCT	27.1	53.6	16.5	2.8	.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	3.9	2.1	.1	.0	.0		6.0	6.2	5.3	3.8	6.8	8.1
NE	3.3	1.6	.1	.0	.0		5.0	5.6	5.8	4.6	5.2	3.3
E	6.8	4.5	.7	.0	.0		12.0	6.9	13.3	12.8	10.5	10.9
SE	9.3	8.2	.4	.0	.0		17.9	6.9	18.8	17.4	17.9	16.7
S	6.6	3.0	.1	.0	.0		9.7	5.5	11.8	10.1	7.2	9.3
SW	6.6	4.8	.5	.0	.0		11.9	7.1	10.1	12.2	14.3	11.4
W	8.0	8.8	4.3	.1	.0		21.2	10.2	18.4	27.3	20.9	22.1
NW	4.0	4.1	1.1	.1	.0		9.2	9.0	9.9	5.9	8.6	12.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	7.0						7.0	.0	6.7	5.9	8.5	6.2
TOT OBS	410	274	53	2	0	739		7.1	288	119	223	129
TOT PCT	55.5	37.1	7.2	.3	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1871-1969
(OVER-ALL) 1858-1969

AREA 0012 SOUTHEAST JAVA
9.0S 114.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
				WIND SPEED (KNOTS)						
00&03	6.7	23.9	51.9	14.9	2.6	.0	.0	6.6	100.0	268
06&09	5.9	12.6	58.8	17.6	5.0	.0	.0	8.1	100.0	119
12&15	8.5	20.2	52.9	15.2	3.1	.0	.0	7.1	100.0	223
18&21	6.2	18.6	53.5	20.9	.8	.0	.0	7.2	100.0	129
TOT	52	148	396	122	21	0	0	7.1		739
PCT	7.0	20.0	53.6	16.5	2.8	.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	1.4	4.0	2.5		5.8
NE	1.4	.0	.0	1.8		4.4
E	5.8	6.5	5.8	1.4		4.0
SE	1.4	.7	2.9	4.3		6.0
S	4.0	.0	.0	2.9		4.2
SW	3.3	.4	1.4	.0		3.1
W	5.8	8.3	9.8	5.8		4.9
NW	1.8	2.9	3.6	1.4		4.7
VAR	.0	.0	.0	.0		.0
CALM	2.9	.0	2.9	1.4		4.8
TOT OBS	19	14	21	15	69	4.7
TOT PCT	27.5	20.3	30.4	21.7	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	1.1	.0	.0	.0	2.9	.0	.0	.0	.0	5.1	
NE	.0	.4	.0	.0	1.4	.0	.0	.0	.0	.0	1.4	
E	.0	.0	.0	.0	2.9	.0	1.4	.0	.0	.0	15.2	
SE	.0	.0	.0	.0	2.9	1.4	1.4	.0	.0	.0	3.6	
S	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	5.4	
SW	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	3.6	
W	.0	.0	1.4	4.3	1.4	4.3	.0	.0	.0	.0	18.1	
NW	.0	.0	.0	.0	1.4	1.4	1.4	.0	.0	.0	5.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	1.4	2.9	.0	.0	.0	.0	.0	2.9	
TOT OBS	0	1	1	5	10	7	3	0	0	0	42	69
TOT PCT	.0	1.4	1.4	7.2	14.5	10.1	4.3	.0	.0	.0	60.9	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	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
* OR >2000	12.7	15.5	15.5	15.5	15.5	15.5	15.5	15.5
* OR >1000	25.4	29.6	29.6	29.6	29.6	29.6	29.6	29.6
* OR >600	31.0	35.2	36.6	36.6	36.6	36.6	36.6	36.6
* OR >300	32.4	36.6	38.0	38.0	38.0	38.0	38.0	38.0
* OR >150	32.4	36.6	38.0	39.4	39.4	39.4	39.4	39.4
* OR > 0	32.4	36.6	38.0	39.4	39.4	39.4	39.4	39.4
TOTAL	23	26	27	28	28	28	28	28

TOTAL NUMBER OF OBS: 71 PCT FREQ NH <5/8: 60.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
6.8	15.1	20.5	8.2	11.0	9.6	12.3	5.5	11.0	.0	73

MARCH

PERIOD: (PRIMARY) 1871-1969
(OVER-ALL) 1858-1969

AREA 0012 SOUTHEAST JAVA
9.0S 114.3E

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	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.5	
	NO PCP	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.5	
	TOT %	.4	.1	.0	.0	.0	.0	.3	.3	.0	.0	1.1	
2<5	PCP	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	1.1	
	NO PCP	.0	.0	1.1	.0	.0	.1	.4	.0	.0	.0	1.6	
	TOT %	.0	.0	1.1	.0	.5	.1	1.0	.0	.0	.0	2.7	
5<10	PCP	.5	.0	.5	2.2	.8	1.4	1.1	.5	.0	.5	7.7	
	NO PCP	3.3	1.6	4.7	.8	2.3	6.3	11.0	4.0	.0	.5	34.6	
	TOT %	3.8	1.6	5.2	3.0	3.2	7.7	12.1	4.5	.0	1.1	42.3	
10+	PCP	.0	.5	.0	1.1	.0	.0	.5	.0	.0	.0	2.2	
	NO PCP	5.9	1.9	7.4	6.6	6.7	2.9	9.2	7.1	.0	3.8	51.6	
	TOT %	5.9	2.5	7.4	7.7	6.7	2.9	9.8	7.1	.0	3.8	53.8	
	TOT OBS												182
	TOT PCT	10.2	4.3	13.7	10.7	10.4	10.7	23.1	12.0	.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	.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	.5	.3	.0	.0	.0	.8	
	4-10	.4	.0	.0	.0	.0	.0	.4	.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 %	.4	.0	.0	.0	.0	.5	.7	.0	.0	.0	1.5	
1<2	0-3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	4-10	.3	.1	.0	.0	.0	.0	.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 %	.3	.5	.0	.0	.0	.0	.2	.2	.0	.0	1.1	
2<5	0-3	.0	.0	.0	.0	.0	.1	.3	.0	.0	.0	.4	
	4-10	.0	.0	.8	.0	.8	.0	.0	.0	.0		1.5	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.4	.0	.0		.4	
	TOT %	.0	.0	.8	.0	.8	.1	.7	.0	.0	.0	2.3	
5<10	0-3	.4	.4	2.1	1.0	.6	1.9	.6	.0	.0	1.5	8.6	
	4-10	1.9	1.1	2.1	1.0	1.3	2.6	5.4	1.3	.0		16.8	
	11-21	.4	.0	.2	.6	.5	.9	2.6	1.8	.0		6.9	
	22+	.0	.0	.0	.0	.0	.2	.8	.6	.0		1.5	
	TOT %	2.7	1.5	4.4	2.5	2.4	5.5	9.4	3.7	.0	1.5	33.6	
10+	0-3	2.3	1.5	1.4	2.6	2.9	.0	.8	1.9	.0	5.0	18.3	
	4-10	4.1	2.3	5.8	4.6	3.0	2.7	7.1	5.4	.0		34.7	
	11-21	1.1	.0	1.3	1.0	1.0	.7	2.8	.1	.0		8.0	
	22+	.0	.0	.0	.0	.0	.0	.4	.0	.0		.4	
	TOT %	7.5	3.8	8.6	8.0	6.8	3.3	11.0	7.4	.0	5.0	61.5	
	TOT OBS												262
	TOT PCT	10.9	5.8	13.7	10.5	9.9	9.4	21.9	11.4	.0	6.5	100.0	

MARCH

PERIOD: (PRIMARY) 1871-1969
(OVER-ALL) 1858-1969

AREA 0012 SOUTHEAST JAVA
9.05 114.3E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	.0	11.1	11.1	11.1	5.6	.0	.0	.0	38.9	61.1	18
06E09	.0	.0	.0	12.5	6.3	12.5	.0	.0	.0	.0	31.3	68.8	16
12E15	.0	.0	.0	.0	35.3	5.9	5.9	.0	.0	.0	47.1	52.9	17
18E21	.0	4.5	4.5	4.5	4.5	9.1	9.1	.0	.0	.0	36.4	63.6	22
TOT	0	1	1	5	10	7	4	0	0	0	28	45	73
PCT	.0	1.4	1.4	6.8	13.7	9.6	5.5	.0	.0	.0	38.4	61.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.0	1.1	.0	3.3	37.0	58.7	92
06E09	.0	.0	.0	2.2	30.4	67.4	46
12E15	.0	3.5	2.4	.0	42.4	51.8	85
18E21	.0	.0	1.6	3.3	27.9	67.2	61
TOT	0	4	3	6	101	170	284
PCT	.0	1.4	1.1	2.1	35.6	59.9	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	11.1	27.8	61.1	18
06E09	.0	.0	12.5	18.8	68.8	16
12E15	.0	.0	.0	50.0	50.0	16
18E21	.0	9.5	19.0	23.8	57.1	21
TOT	0	2	8	21	42	71
PCT	.0	2.8	11.3	29.6	59.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.8	.8	.0	.0	2	1.7
85/89	.0	.0	.0	.0	.8	9.3	5.9	.8	20	16.9
80/84	.0	.0	.0	.0	.8	18.6	39.0	8.5	79	66.9
75/79	.0	.0	.0	.0	.0	.0	8.5	5.9	17	14.4
TOTAL	0	0	0	0	3	34	63	18	118	100.0
PCT	.0	.0	.0	.0	2.5	28.8	53.4	15.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.8	.0	.0	.0	.0	.8	.0	.0
	.0	.8	3.6	2.3	1.3	1.7	4.7	1.7	.0	.8
	7.4	.8	12.3	8.9	5.1	8.5	14.2	8.1	.0	1.7
	.6	.2	.4	.4	2.5	.0	5.1	3.4	.0	1.7
	8.1	1.9	17.2	11.7	8.9	10.2	23.9	14.0	.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
00E03	91	89	88	84	79	76	75	83.5	264
06E09	90	89	88	84	80	77	77	84.3	117
12E15	89	87	86	83	79	77	75	82.7	223
18E21	88	86	85	82	77	75	75	81.4	132
TOT	91	89	87	83	79	77	75	83.0	736

TABLE 16

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	2.3	36.4	52.3	9.1	81	44
06E09	.0	.0	8.3	41.7	41.7	8.3	78	24
12E15	.0	.0	.0	25.6	51.3	23.1	84	39
18E21	.0	.0	.0	9.4	78.1	12.5	85	32
TOT	0	0	3	39	78	19	82	139

MARCH

PERIOD: (PRIMARY) 1871-1969
(OVER-ALL) 1858-1969

AREA 0012 SOUTHEAST JAVA
9.0S 114.3E

TABLE 17

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

AIR-SEA THP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.7	.7	2	.0	1.5
6	.0	.0	.0	.7	.0	1	.0	.7
5	.0	.0	.0	.7	.0	1	.0	.7
4	.0	.0	.0	1.5	.7	3	.0	2.2
3	.0	.7	.0	2.2	.0	4	.0	3.0
2	.0	.0	6.0	5.2	.0	15	.7	10.4
1	.0	.0	6.0	3.7	.0	13	.0	9.7
0	.7	.0	13.4	.7	.0	20	.7	14.2
-1	.0	.7	14.2	1.5	.0	22	.0	16.4
-2	.0	3.0	16.4	.0	.0	26	.0	19.4
-3	.0	3.0	3.0	.0	.0	8	.0	6.0
-4	.0	2.2	2.2	.0	0	6	.0	4.5
-5	.0	.7	2.2	.0	.0	4	.0	3.0
-6	.0	2.2	.0	.0	.0	3	.0	2.2
-7/-8	.7	2.2	.0	.0	.0	4	.0	3.0
-9/-10	.0	1.5	.0	.0	.0	2	.0	1.5
TOTAL	2		85		2		2	132
		22		23		134		
PCT	1.5	16.4	63.4	17.2	1.5	100.0	1.5	98.5

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.9	.0	.0	.0	.0	2.9
1-2	.0	5.0	.0	.0	.0	.0	5.0
3-4	.0	2.9	2.9	.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	.0	10.7	2.9	.0	.0	.0	13.6

NE

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	.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	3.6	.0	.0	.0	.0	3.6

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	7.9	.0	.0	.0	.0	7.9
3-4	.0	2.9	2.9	.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	.0	10.7	2.9	.0	.0	.0	13.6

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	.7	.0	.0	.0	.0	.7
3-4	.0	.0	2.9	.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	3.6	2.9	.0	.0	.0	6.4

PERIOD: (OVER-ALL) 1963-1969 — AREA 0012 SOUTHEAST JAVA 9.0S 114.3E

TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.9	.0	.0	.0	.0	2.9	.0	2.9	.0	.0	.0	.0	2.9
3-4	.0	.0	2.9	.0	.0	.0	2.9	.0	.0	2.9	.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	2.9	2.9	.0	.0	.0	5.7	.0	2.9	2.9	.0	.0	.0	5.7

	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	5.7	.0	.0	.0	.0	5.7	
1-2	.0	8.6	2.9	.0	.0	.0	11.4	.0	2.9	.0	.0	.0	.0	2.9	
3-4	.0	.0	13.6	.0	.0	.0	13.6	.0	2.9	.7	.0	.0	.0	3.6	
5-6	.0	.0	.0	2.9	.0	.0	2.9	.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	8.6	16.4	2.9	.0	.0	27.9	.0	11.4	.7	.0	.0	.0	12.1	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	11.4	14.3	.0	.0	.0	.0	25.7	
1-2	.0	31.4	2.9	.0	.0	.0	34.3	
3-4	.0	8.6	28.6	.0	.0	.0	37.1	
5-6	.0	.0	.0	2.9	.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	11.4	54.3	31.4	2.9	.0	.0	100.0	35

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.8	7.3	16.4	5.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	3
6-7	.0	.0	3.6	3.6	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	5
8-9	.0	.0	5.5	3.6	1.8	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	5
10-11	.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	2
12-13	.0	.0	1.8	3.6	.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	18.2	5.5	10.9	1.8	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	2
TOTAL	11	9	21	10	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	55	3
PCT	20.0	16.4	38.2	18.2	1.8	5.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1878-1969
(OVER-ALL) 1856-1969

AREA 0012 SOUTHEAST JAVA
8.9S 114.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
NE	53.3	.0	.0	.0	.0	.0	.0	53.3	6.7	.0	.0	.0	.0	.0		40.0
E	6.2	4.4	.0	.0	.0	.0	.0	10.6	2.6	5.7	6.2	.0	[illegible]	.0		79.3
SE	1.2	3.6	.0	.0	.0	.0	.0	4.8	.6	4.2	6.0	.0	.0	.0		85.7
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.7	.0		91.3
SW	20.0	.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	.0		80.0
W	7.1	.0	.0	.0	.0	.0	.0	7.1	.0	.0	.0	.0	.0	.0		92.9
NW	18.2	.0	.0	.0	.0	.0	.0	18.2	.0	.0	.0	.0	.0	.0		81.8
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	5.8	2.9	.0	.0	.0	.0	.0	8.7	1.4	3.6	4.3	.0	.7	.0		83.3
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 WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00Z03	4.8	7.1	.0	.0	.0	.0	.0	11.9	.0	2.4	2.4	.0	.0	.0		85.7
06Z09	.0	.0	.0	.0	.0	.0	.0	.0	3.6	.0	3.5	.0	.0	.0		92.9
12Z15	6.8	.0	.0	.0	.0	.0	.0	6.8	2.3	2.3	6.8	.0	2.3	.0		81.8
18Z21	13.3	3.3	.0	.0	.0	.0	.0	16.7	.0	13.3	3.3	.0	.0	.0		73.3
TOT PCT	6.3	2.8	.0	.0	.0	.0	.0	9.0	1.4	4.2	4.2	.0	.7	.0		83.3
TOT OBS:	144															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	1.1	.2	.0	.0	.0		2.8	4.6	5.0	2.8	.0	1.3	.9	2.9	.0	5.2
NE	1.4	2.8	.9	.0	.0	.0		5.2	6.3	8.1	5.1	2.8	7.3	1.9	4.6	10.5	4.5
E	1.6	20.2	11.7	.2	.0	.0		33.7	9.4	28.3	28.1	44.4	34.0	33.2	38.5	38.2	37.7
SE	3.3	17.3	9.2	.2	.0	.0		30.0	8.8	23.3	24.7	31.9	40.7	39.3	30.5	35.5	18.2
S	2.4	4.0	.8	.0	.0	.0		7.1	6.2	9.7	8.4	9.7	5.3	5.6	8.6	.0	5.8
SW	.5	2.3	.7	.0	.0	.0		3.6	7.2	3.9	1.1	5.6	2.0	5.6	3.4	.0	5.2
W	1.8	4.5	.4	.2	.0	.0		6.9	6.2	8.9	15.7	.0	5.3	4.7	5.2	5.3	3.2
NW	.5	2.3	.6	.4	.0	.0		3.8	9.2	5.0	3.9	.0	2.7	3.3	2.9	5.3	5.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.9							6.9	.0	7.8	10.1	5.6	1.3	5.6	3.4	5.3	14.3
TOT OBS	113	396	138	5	0	0	562		7.7	90	89	18	75	107	87	19	77
TOT PCT	20.1	54.4	24.6	.9	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.0	.7	.0	.0	.0		2.8	4.6	3.9	1.1	1.8	4.2
NE	3.3	1.8	.1	.0	.0		5.2	6.3	6.6	6.5	3.1	5.7
E	9.5	22.6	1.5	.0	.0		33.7	9.4	28.2	36.0	35.6	37.8
SE	9.1	20.2	.7	.0	.0		30.0	8.8	24.0	39.0	35.3	21.6
S	4.2	2.7	.2	.0	.0		7.1	6.2	9.1	6.2	7.0	4.7
SW	2.4	.7	.4	.0	.0		3.6	7.2	2.5	2.7	4.6	4.2
W	4.6	2.0	.3	.0	.0		6.9	6.2	12.3	4.3	4.9	3.6
NW	1.6	1.9	.2	.2	.0		3.8	9.2	4.5	2.2	3.1	5.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	6.9						6.9	.0	8.9	2.2	4.6	12.5
TOT OBS	246	296	19	1	0	562		7.7	179	93	194	96
TOT PCT	43.8	52.7	3.4	.2	.0		100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1878-1969
(OVER-ALL) 1856-1969

AREA 0012 SOUTHEAST JAVA
8.9S 114.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
	WIND SPEED (KNOTS)									
00603	8.9	17.9	52.5	17.9	2.8	.0	.0	7.2	100.0	179
06609	2.2	12.9	54.8	30.1	.0	.0	0	8.5	100.0	93
12615	4.6	9.8	56.2	29.4	.0	.0	.0	8.2	100.0	194
18621	12.5	11.5	54.2	21.9	.0	.0	.0	7.2	100.0	96
TOT	39	74	306	138	5	0	0	7.7		562
PCT	6.9	13.2	54.4	24.6	.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	.0	.0	.0	.0		.0
NE	1.7	1.3	1.7	1.7		4.7
E	12.1	10.4	9.6	.0		3.6
SE	9.2	15.4	9.6	1.7		4.0
S	5.4	2.9	.8	.0		2.4
SW	.0	3.3	.0	.0		3.5
W	.0	2.5	1.7	1.7		5.2
NW	1.7	2.5	.0	.0		1.8
VAR	.0	.0	.0	.0		.0
CALM	1.7	.0	.0	1.7		5.0
TOT OBS	19	23	14	4	60	3.7
TOT PCT	31.7	38.3	23.3	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	1.7	1.7	.0	.0	.0	.0	2.9	
E	.0	.0	.0	1.7	1.3	.0	.8	.0	.0	.0	28.3	
SE	.0	.0	.0	.0	2.1	.0	.8	.0	.0	.0	32.9	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.2	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	
W	.0	.0	.0	.0	3.3	.0	.0	.0	.0	.0	2.5	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.3	
TOT OBS	0	0	0	1	5	1	1	0	0	0	52	60
TOT PCT	.0	.0	.0	1.7	8.3	1.7	1.7	.0	.0	.0	86.7	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >500YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
* OR >2000	3.3	3.3	3.3	3.3	4.9	4.9	4.9	4.9
* OR >1000	9.8	9.8	11.5	11.5	13.1	13.1	13.1	13.1
* OR >600	9.8	9.8	13.1	13.1	14.8	14.8	14.8	14.8
* OR >300	9.8	9.8	13.1	13.1	14.8	14.8	14.8	14.8
* OR >150	9.8	9.8	13.1	13.1	14.8	14.8	14.8	14.8
* OR > 0	9.8	9.8	13.1	13.1	14.8	14.8	14.8	14.8
TOTAL	6	6	8	8	9	9	9	9

TOTAL NUMBER OF OBS: 61

PCT FREQ NH <5/8: 85.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
6.1	13.6	22.7	25.8	13.6	3.0	7.6	3.0	4.5	.0	66

APRIL

PERIOD: (PRIMARY) 1878-1969
(OVER-ALL) 1856-1969

AREA 0012 SOUTHEAST JAVA
8.9S 114.3E

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	.7	.0	.0	.0	.0	.0	.0	.0	.0	.7	
	NO PCP	.0	.0	.7	.0	.7	.0	.0	.0	.0	.0	1.4	
	TOT %	.0	.7	.7	.0	.7	.0	.0	.0	.0	.0	2.2	
5<10	PCP	.0	.0	2.5	1.1	.0	.4	.4	.7	.0	.0	5.1	
	NO PCP	.0	.0	13.4	5.1	1.1	.0	1.4	.7	.0	.0	21.7	
	TOT %	.0	.0	15.9	6.2	1.1	.4	1.8	1.4	.0	.0	26.8	
10+	PCP	.0	.7	1.8	.4	.0	.0	.0	.0	.0	.0	2.9	
	NO PCP	1.4	1.3	22.6	23.9	6.5	1.4	3.3	2.5	.0	5.1	68.1	
	TOT %	1.4	2.0	24.5	24.3	6.5	1.4	3.3	2.5	.0	5.1	71.0	
	TOT OBS												138
	TOT PCT	1.4	2.7	41.1	30.4	8.3	1.8	5.1	4.0	.0	5.1	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.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	.0	.0	.4	.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	.0	.0	.4	.0	.0	.0	.0	.8	
2<5	0-3	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.8	
	4-10	.0	.4	.0	.0	.0	.0	.4	.0	.0		.8	
	11-21	.0	.0	.4	.0	.0	.0	.0	.0	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.4	.8	.0	.4	.0	.4	.0	.0	.0	2.0	
5<10	0-3	.0	.0	.0	.0	.4	.0	.2	.2	.0	.0	.8	
	4-10	.2	.0	6.2	2.8	.2	.2	1.8	.6	.0		12.0	
	11-21	.0	.0	2.8	1.2	.0	.0	.0	.4	.0		4.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.0	9.0	4.0	.6	.2	2.0	1.2	.0	.0	17.2	
10+	0-3	1.4	1.7	1.9	3.1	1.5	.6	1.4	.4	.0	5.2	17.2	
	4-10	1.6	2.4	19.8	14.1	2.5	1.0	4.0	2.2	.0		47.6	
	11-21	.0	.2	6.0	6.6	1.2	.4	.4	.4	.0		15.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	3.0	4.3	27.7	23.8	5.2	2.0	5.8	3.0	.0	5.2	80.0	
	TOT OBS												250
	TOT PCT	3.2	4.7	37.9	27.8	6.2	2.6	8.2	4.2	.0	5.2	100.0	

APRIL

PERIOD: (PRIMARY) 1878-1969
(OVER-ALL) 1856-1969

AREA 0012 SOUTHEAST JAVA
8.9S 114.3E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00Z03	.0	.0	.0	7.1	14.3	.0	7.1	.0	.0	.0	28.6	71.4	14
06Z09	.0	.0	.0	.0	10.5	.0	.0	.0	.0	.0	10.5	89.5	19
12Z15	.0	.0	.0	.0	5.9	.0	.0	.0	.0	.0	5.9	94.1	17
18Z21	.0	.0	.0	.0	.0	15.4	.0	.0	.0	.0	15.4	84.6	13
TOT	0	0	0	1	5	2	1	0	0	0	9	54	63
PCT	.0	.0	.0	1.6	7.9	3.2	1.6	.0	.0	.0	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	.0	5.7	22.9	71.4	70
06Z09	.0	.0	.0	2.2	15.2	82.6	46
12Z15	.0	.0	2.3	.0	20.5	77.3	88
18Z21	.0	1.9	.0	.0	11.5	86.5	52
TOT	0	1	2	5	47	201	256
PCT	.0	.4	.8	2.0	18.4	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
00Z03	.0	.0	15.4	15.4	69.2	13
06Z09	.0	.0	.0	10.5	89.5	19
12Z15	.0	.0	.0	6.3	93.8	16
18Z21	.0	7.7	7.7	7.7	84.6	13
TOT	0	1	3	6	52	61
PCT	.0	1.6	4.9	9.8	85.2	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	2.2	.0	.0	.0	2	2.2
85/89	.0	.0	.0	.0	4.3	12.0	4.3	.0	19	20.7
80/84	.0	.0	.0	.0	2.2	16.3	48.9	6.5	68	73.9
75/79	.0	.0	.0	.0	.0	.0	1.1	1.1	2	2.2
70/74	.0	.0	.0	.0	.0	.0	1.1	.0	1	1.1
TOTAL	0	0	0	0	8	26	51	7	92	100.0
PCT	.0	.0	.0	.0	8.7	28.3	55.4	7.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.8	.3	.0	.0	1.1	.0	.0	.0
	.0	.0	9.0	5.7	2.7	1.1	.5	.5	.0	1.1
	.0	2.4	33.2	23.9	2.4	.5	2.7	4.3	.0	4.3
	.0	1.1	.0	1.1	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0
	.0	3.5	42.9	31.0	5.2	1.6	4.3	6.0	.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
00Z03	90	88	87	84	80	77	76	83.5	179
06Z09	91	90	88	84	82	77	77	84.5	94
12Z15	86	85	85	83	80	77	77	82.7	192
18Z21	85	84	84	82	79	73	73	81.5	96
TOT	91	88	87	83	80	77	73	83.0	561

TABLE 16

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	10.3	20.7	51.7	17.2	82	29
06Z09	.0	.0	21.1	47.4	31.6	.0	76	19
12Z15	.0	.0	7.1	28.6	60.7	3.6	80	28
18Z21	.0	.0	4.8	19.0	66.7	9.5	83	21
TOT	0	0	10	27	52	8	81	97

APRIL

PERIOD: (PRIMARY) 1878-1969
(OVER-ALL) 1856-1969

AREA 0012 SOUTHEAST JAVA
8.9S 114.3E

TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.9	.0	1	.0	.9
5	.0	.0	.0	.0	.9	1	.0	.9
4	.0	.0	.9	.9	.9	3	.0	2.8
3	.0	.9	.0	3.7	.0	5	.0	4.6
2	.0	.0	9.3	.9	.0	11	2.8	7.4
1	.0	.9	8.3	4.6	.0	15	1.9	12.0
0	.9	.0	18.5	4.6	.0	26	.9	23.1
-1	.0	.9	12.0	.9	.0	15	.0	13.9
-2	.0	.9	12.0	.9	.0	15	.0	13.9
-3	.0	.9	3.7	.9	.0	6	.0	5.6
-4	.0	1.9	4.6	.0	.0	7	.0	6.5
-5	.0	.0	2.8	.0	.0	3	.0	2.8
TOTAL	1	7	78	20	2	108	6	102
PCT	.9	6.5	72.2	18.5	1.9	100.0	5.6	94.4

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.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	.8	3.3	.0	.0	.0	.0	4.2
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	.8	3.3	.0	.0	.0	.0	4.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	2.5	11.7	.0	.0	.0	.0	14.2
3-4	.0	15.0	3.3	.0	.0	.0	18.3
5-6	.0	6.7	.0	.0	.0	.0	6.7
7	.0	.0	5.8	.0	.0	.0	5.8
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.5	33.3	9.2	.0	.0	.0	45.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	3.3	.0	.0	.0	.0	4.2
1-2	.0	15.0	.0	.0	.0	.0	15.0
3-4	.0	5.0	3.3	.0	.0	.0	8.3
5-6	.0	.8	10.0	.0	.0	.0	10.8
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	.8	24.2	14.2	.0	.0	.0	39.2

PERIOD: (OVER-ALL) 1963-1969

APRIL

TABLE 18 (CONT)

AREA 0012 SOUTHEAST JAVA
8.95 114.3E

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	2.5	.0	.0	.0	.0	.0	2.5	.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	2.5	.0	.0	.0	.0	2.5	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.5	2.5	.0	.0	.0	.0	5.0	.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	6.7	.0	.0	.0	.0	6.7	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.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	6.7	.0	.0	.0	.0	6.7	.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	3.3	3.3	.0	.0	.0	.0	6.7	
1-2	3.3	36.7	.0	.0	.0	.0	40.0	
3-4	.0	20.0	6.7	.0	.0	.0	26.7	
5-6	.0	10.0	10.0	.0	.0	.0	20.0	
7	.0	.0	6.7	.0	.0	.0	6.7	
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	6.7	70.0	23.3	.0	.0	.0	100.0	30

PERIOD: (OVER-ALL) 1950-1969

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.0	18.4	18.4	12.2	8.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	4
6-7	.0	4.1	6.1	8.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	4
8-9	.0	.0	2.0	4.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	4
10-11	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	2
12-13	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	8.1	4.1	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	1
TOTAL	4	14	15	12	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49	3
PCT	8.2	28.6	30.6	24.5	8.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1887-1971
(OVER-ALL) 1860-1971

AREA 0012 SOUTHEAST JAVA
8.7S 114.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.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	.0	5.6	.0	.0	.0	88.7
E	1.0	6.2	.0	.0	.0	.0	.0	7.2	1.0	2.1	1.0	.0	.0	.0	88.7
SE	.9	.0	.0	.0	.0	.0	.0	.9	.9	.0	.9	.0	3.6	.0	93.7
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.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	25.0	.0	25.0	.0	.0	.0	50.0
TOT PCT	1.4	2.1	.0	.0	.0	.0	.0	3.5	1.4	.7	2.1	.0	1.4	.0	90.9
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
00E03	.0	2.3	.0	.0	.0	.0	.0	2.3	.0	.0	6.8	.0	2.3	.0	88.6
06E09	.0	4.5	.0	.0	.0	.0	.0	4.5	9.1	.0	.0	.0	.0	.0	86.4
12E15	2.1	2.1	.0	.0	.0	.0	.0	4.2	.0	.0	.0	.0	2.1	.0	93.8
18E21	3.2	.0	.0	.0	.0	.0	.0	3.2	.0	3.2	.0	.0	.0	.0	93.5
TOT PCT	1.4	2.1	.0	.0	.0	.0	.0	3.4	1.4	.7	2.1	.0	1.4	.0	91.0
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	.6	1.3	.0	.0	.0	.0		1.9	5.7	.8	4.1	.0	.0	1.1	1.0	.0	4.3
NE	1.5	5.0	1.9	.1	.0	.0		7.9	7.3	10.3	10.6	16.7	5.6	4.6	4.8	10.0	8.6
E	2.7	21.3	11.0	3.1	.1	.0		38.3	10.4	50.8	35.9	37.5	41.7	32.3	37.9	33.8	37.1
SE	3.2	18.6	12.9	.6	.1	.0		35.4	9.8	29.4	32.9	29.2	41.7	47.0	30.8	32.5	29.3
S	1.2	6.0	.9	.0	.0	.0		8.1	6.4	2.4	7.1	8.3	10.2	11.7	8.7	13.8	6.4
SW	.6	1.2	.1	.0	.0	.0		1.9	6.0	1.6	.6	.0	.9	1.1	3.8	.0	5.0
W	.5	.4	.1	.0	.0	.0		1.1	5.5	.0	2.9	.0	.0	.0	2.9	.0	1.4
NW	.0	1.6	.2	.0	.0	.0		1.8	8.2	1.6	1.2	.0	.0	1.1	6.7	.0	2.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.5							3.6	.0	3.2	4.7	8.3	.0	1.1	3.8	10.0	5.7
TOT OBS	62	249	119	17	1	0	448		9.0	63	85	12	54	92	52	20	70
TOT PCT	13.8	55.6	26.6	3.8	.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	1.1	.8	.0	.0	.0		1.9	5.7	2.7	.0	1.0	3.3
NE	3.9	3.9	.0	.1	.0		7.9	7.3	10.5	7.6	4.7	8.9
E	12.1	20.3	4.8	1.1	.0		38.3	10.4	42.2	40.9	34.2	38.4
SE	11.2	20.0	4.1	.1	.0		35.4	9.8	31.4	39.4	41.1	30.0
S	5.2	2.9	.0	.0	.0		8.1	6.4	5.1	9.8	10.6	8.1
SW	1.1	.8	.0	.0	.0		1.9	6.0	1.0	.8	2.1	3.9
W	.7	.4	.0	.0	.0		1.1	5.5	1.7	.0	1.0	1.1
NW	.6	1.2	.0	.0	.0		1.8	8.2	1.4	.0	3.1	1.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.6						3.6	.0	4.1	1.5	2.1	6.7
TOT OBS	177	225	40	6	0	448		9.0	148	86	144	90
TOT PCT	39.5	50.2	8.9	1.3	.0		100.0		100.0	100.0	100.0	100.0

MAY

PERIOD: (PRIMARY) 1887-1971
(OVER-ALL) 1860-1971

AREA 0012 SOUTHEAST JAVA
8.7S 114.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	4.1	14.2	52.0	25.0	4.1	.7	.0	9.1	100.0	148
06&09	1.5	1.5	63.6	30.3	3.0	.0	.0	9.4	100.0	66
12&15	2.1	9.7	52.8	31.3	4.2	.0	.0	9.2	100.0	144
18&21	6.7	11.1	60.0	18.9	3.3	.0	.0	8.0	100.0	90
TOT	16	46	249	119	17	1	0	9.0		448
PCT	3.6	10.3	55.6	26.6	3.8	.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	.0	.0	2.5	.0		5.0
NE	5.0	2.5	5.0	.0		3.8
E	13.1	10.0	9.4	5.0		3.8
SE	16.9	7.5	6.3	.0		2.9
S	2.5	5.0	4.4	.0		3.2
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	2.5	2.5	.0		4.0
TOT OBS	15	11	12	2	40	3.5
TOT PCT	37.5	27.5	30.0	5.0	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	2.5	.0	.0	.0	.0	
NE	.0	.0	.0	.0	2.5	.0	.0	.0	.0	.0	10.0	
E	.0	.0	.0	.0	2.5	.0	4.4	.0	.0	.0	30.6	
SE	.0	.0	.0	2.5	.0	.0	.6	.0	.0	.0	27.5	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.9	
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	5.0	
TOT OBS	0	0	0	1	2	0	3	0	0	0	34	40
TOT PCT	.0	.0	.0	2.5	5.0	.0	7.5	.0	.0	.0	85.0	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >500YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	5.0	7.5	7.5	7.5	7.5	7.5	7.5	7.5
* OR >2000	5.0	7.5	7.5	7.5	7.5	7.5	7.5	7.5
* OR >1000	10.0	12.5	12.5	12.5	12.5	12.5	12.5	12.5
* OR >600	12.5	15.0	15.0	15.0	15.0	15.0	15.0	15.0
* OR >300	12.5	15.0	15.0	15.0	15.0	15.0	15.0	15.0
* OR >150	12.5	15.0	15.0	15.0	15.0	15.0	15.0	15.0
* OR > 0	12.5	15.0	15.0	15.0	15.0	15.0	15.0	15.0
TOTAL	5	6	6	6	6	6	6	6

TOTAL NUMBER OF OBS: 40 PCT FREQ NH <5/8: 85.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
2.1	14.6	43.8	20.8	6.3	8.3	2.1	.0	2.1	.0	48

MAY

PERIOD: (PRIMARY) 1887-1971
(OVER-ALL) 1860-1971

AREA 0012 SOUTHEAST JAVA
8.7S 114.3E

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	.7	.0	.0	.0	.0	.0	.0	.0	.7	1.4	
	TOT %	.0	.7	.0	.0	.0	.0	.0	.0	.0	.7	1.4	
1<2	PCP	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.7	
	NO PCP	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.7	
	TOT %	.0	.7	.0	.7	.0	.0	.0	.0	.0	.0	1.4	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.7	.7	.0	.0	.0	.0	.0	.0	1.4	
	TOT %	.0	.0	.7	.7	.0	.0	.0	.0	.0	.0	1.4	
5<10	PCP	.0	.0	2.4	.3	.0	.0	.0	.0	.0	.0	2.8	
	NO PCP	.7	4.9	10.5	16.4	1.7	.0	.7	.0	.0	.0	35.0	
	TOT %	.7	4.9	12.9	16.8	1.7	.0	.7	.0	.0	.0	37.8	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	2.1	6.1	20.3	20.8	4.5	.7	.7	.7	.0	2.1	58.0	
	TOT %	2.1	6.1	20.3	20.8	4.5	.7	.7	.7	.0	2.1	58.0	
	TOT OBS												143
	TOT PCT	2.8	12.4	33.9	39.0	6.3	.7	1.4	.7	.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	.5	.5	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.5	.0	.0	.0	.0	.0	.0	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.5	.0	.0	.0	.0	.0	.0	.0	.5	.9	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.5	.5	.0	.0	.0	.0		.9	
	11-21	.0	.5	.0	.0	.0	.0	.0	.0	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.5	.0	.5	.5	.0	.0	.0	.0	.0	1.4	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.5	.5	.0	.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	.5	.5	.0	.0	.0	.0	.0	.0	.9	
5<10	0-3	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.9	
	4-10	.5	3.2	3.9	3.7	1.2	.0	.5	.0	.0		13.0	
	11-21	.0	.0	3.2	7.4	.0	.0	.0	.0	.0		10.6	
	22+	.0	.0	.5	.0	.0	.0	.0	.0	.0		.5	
	TOT %	.5	3.2	8.6	11.1	1.2	.0	.5	.0	.0	.0	25.0	
10+	0-3	.2	2.1	2.0	3.2	.7	.2	.2	.0	.0	3.2	13.9	
	4-10	1.6	3.0	16.7	12.7	4.6	.9	.2	.5	.0		40.3	
	11-21	.0	.3	6.4	9.3	.7	.2	.2	.0	.0		17.1	
	22+	.0	.0	.0	.5	.0	.0	.0	.0	.0		.5	
	TOT %	1.9	5.4	25.0	27.7	6.0	1.4	.7	.5	.0	3.2	71.8	
	TOT OBS												216
	TOT PCT	2.3	9.6	34.0	39.7	7.6	1.4	1.2	.5	.0	3.7	100.0	

MAY

PERIOD: (PRIMARY) 1887-1971
(OVER-ALL) 1860-1971

AREA 0012 SOUTHEAST JAVA
8.7S 114.3E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00Z03	.0	.0	.0	.0	16.7	.0	8.3	.0	.0	.0	25.0	75.0	12
06Z09	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	12
12Z15	.0	.0	.0	10.0	.0	.0	10.0	.0	.0	.0	20.0	80.0	10
18Z21	.0	.0	.0	.0	.0	.0	7.1	.0	.0	.0	7.1	92.9	14
TOT	0	0	0	1	2	0	3	0	0	0	6	42	48
PCT	.0	.0	.0	2.1	4.2	.0	6.3	.0	.0	.0	12.5	87.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00Z03	.0	3.1	1.5	.0	29.2	66.2	65
06Z09	.0	.0	.0	.0	22.2	77.8	36
12Z15	.0	.0	1.4	2.8	33.8	62.0	71
18Z21	.0	.0	2.2	.0	10.9	87.0	46
TOT	0	2	3	2	56	155	218
PCT	.0	.9	1.4	.9	25.7	71.1	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	27.3	72.7	11
06Z09	.0	.0	.0	.0	100.0	9
12Z15	.0	.0	11.1	11.1	77.8	9
18Z21	.0	.0	.0	9.1	90.9	11
TOT	0	0	1	5	34	40
PCT	.0	.0	2.5	12.5	85.0	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	2.2	5.6	.0	1.1	8	8.9
80/84	.0	.0	.0	1.1	2.2	33.3	37.8	7.8	74	82.2
75/79	.0	.0	.0	.0	.0	1.1	5.6	2.2	8	8.9
TOTAL	0	0	0	1	4	36	39	10	90	100.0
PCT	.0	.0	.0	1.1	4.4	40.0	43.3	11.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.6	1.7	4.4	1.1	.0	.0	.0	.0	.0	1.1
2.2	12.8	29.7	32.5	2.2	.0	.0	.6	.0	2.2
1.7	.6	2.2	2.2	.0	.0	1.1	.0	.0	1.1
4.4	15.0	36.4	35.8	2.2	.0	1.1	.6	.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
00Z03	88	87	86	83	79	77	72	82.6	145
06Z09	89	88	87	83	80	78	78	83.4	63
12Z15	88	86	85	82	79	78	78	81.9	139
18Z21	84	83	83	81	78	76	76	81.0	90
TOT	89	88	86	82	78	77	72	82.2	437

TABLE 16

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	35.3	52.9	8.8	80	34
06Z09	.0	.0	13.3	60.0	26.7	.0	75	15
12Z15	.0	.0	4.8	42.9	38.1	14.3	81	21
18Z21	.0	4.5	.0	36.4	40.9	18.2	82	22
TOT	0	1	4	36	39	10	80	92

MAY

PERIOD: (PRIMARY) 1887-1971
(OVER-ALL) 1860-1971

AREA 0012 SOUTHEAST JAVA
8.7S 114.3E

TABLE 17

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

AIR-SEA TMP DIF	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
7/8	.0	.0	.9	.0	1	.0	.9
6	.0	.0	.0	.9	1	.0	.9
5	.0	.0	.9	.0	1	.0	.9
4	.0	2.8	.9	.0	4	.0	3.7
3	.0	2.8	1.9	.0	5	.0	4.6
2	.0	7.4	1.9	.0	10	.0	9.3
1	.0	5.6	2.8	.0	9	.0	8.3
0	3.7	25.0	2.8	.0	34	1.9	29.6
-1	.9	14.8	.0	.0	17	.0	15.7
-2	3.7	9.3	.0	.0	14	.0	13.0
-3	2.8	1.9	.9	.0	6	.0	5.6
-4	1.9	1.9	.0	.0	4	.0	3.7
-5	.9	.9	.0	.0	2	.0	1.9
TOTAL	15	78	14	1	108	2	106
PCT	13.9	72.2	13.0	.9	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	.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	3.0	4.0	.0	.0	.0	.0	7.0
1-2	.0	8.0	.0	.0	.0	.0	8.0
3-4	.0	11.0	8.0	.0	.0	.0	19.0
5-6	.0	4.0	.0	.0	.0	.0	4.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.0	27.0	8.0	.0	.0	.0	38.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	8.0	.0	.0	.0	.0	9.0
1-2	.0	8.0	.0	.0	.0	.0	8.0
3-4	.0	13.0	8.0	.0	.0	.0	21.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	8.0	4.0	.0	.0	12.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.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	29.0	16.0	4.0	.0	.0	50.0

PERIOD: (OVER-ALL) 1963-1971

AREA 0012 SOUTHEAST JAVA
8.7S 114.3E

TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	4.0	.0	.0	.0	.0	4.0	.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	4.0	.0	.0	.0	.0	4.0	.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	92.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	12.0	16.0	.0	.0	.0	.0	28.0	
1-2	.0	16.0	.0	.0	.0	.0	16.0	
3-4	.0	24.0	16.0	.0	.0	.0	40.0	
5-6	.0	4.0	.0	.0	.0	.0	4.0	
7	.0	.0	8.0	4.0	.0	.0	12.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	12.0	60.0	24.0	4.0	.0	.0	100.0	25

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	8.6	11.4	17.1	5.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	2
6-7	.0	5.7	5.7	14.3	2.9	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	5
8-9	.0	.0	.0	.0	5.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	7
10-11	.0	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
12-13	.0	.0	2.9	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	11.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	0
TOTAL	7	6	10	7	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	35	3
PCT	20.0	17.1	28.6	20.0	11.4	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1880-1969
(OVER-ALL) 1857-1969

AREA 0012 SOUTHEAST JAVA
8.8S 114.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	DUST BLWG	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	66.7	.0	.0	.0	.0		33.3
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
E	.0	2.2	.0	.0	.0	.0	.0	2.2	.0	1.8	4.4	.0	1.8	.0		89.9
SE	.0	1.0	.0	.0	.0	.0	.0	1.0	.0	.0	4.2	.0	4.2	.0		90.7
S	.0	.0	.0	.0	.0	.0	.0	.0	10.0	.0	10.0	.0	.0	.0		80.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.3	.0	.0	.0		91.7
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	.0	1.3	.0	.0	.0	.0	.0	1.3	.6	1.3	4.4	.0	2.5	.0		90.0
TOT OBS:	160															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER 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 SNOW	DUST BLWG	NO SIG WEA
00&03	.0	4.0	.0	.0	.0	.0	.0	4.0	2.0	.0	6.0	.0	2.0	.0		86.0
06&09	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	.0	3.1	.0		90.6
12&15	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	4.1	.0	4.1	.0		87.8
18&21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	.0	.0	.0		97.0
TOT PCT	.0	1.2	.0	.0	.0	.0	.0	1.2	.6	1.2	4.9	.0	2.4	.0		89.6
TOT OBS:	164															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	.9	.0	.0	.0	.0		1.4	4.9	3.0	.6	.0	.0	1.2	.9	4.5	1.4
NE	.6	1.3	1.3	.0	.0	.0		3.3	8.7	3.4	4.2	.0	1.6	5.2	3.7	2.3	2.1
E	1.2	18.3	18.9	1.7	.4	.0		40.4	11.5	33.5	49.0	43.4	43.7	37.2	38.9	50.0	37.1
SE	.9	20.7	16.4	1.1	.0	.0		39.1	10.9	35.1	39.0	51.3	42.1	43.0	37.0	38.6	35.0
S	.5	4.6	1.9	.2	.0	.0		7.2	9.5	8.8	1.9	5.3	7.1	7.6	7.4	4.5	12.1
SW	.5	2.7	.5	.0	.0	.0		3.7	7.2	5.2	1.3	.0	2.4	4.6	4.6	.0	6.4
W	.0	.7	.0	.0	.0	.0		.7	7.8	3.0	.0	.0	.0	.0	1.9	.0	.0
NW	.3	.4	.0	.0	.0	.0		.7	3.7	3.0	.0	.0	.0	.0	.0	.0	1.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.4							3.4	.0	4.9	3.9	.0	3.2	1.2	5.6	.0	4.3
TOT OBS	37	233	183	14	2	0	469		10.3	82	77	19	63	82	54	22	70
TOT PCT	7.9	49.7	39.0	3.0	.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	1.0	.4	.0	.0	.0		1.4	4.9	1.9	.0	1.1	2.2
NE	1.3	1.8	.2	.0	.0		3.3	8.7	3.8	1.2	4.6	2.2
E	9.2	23.4	7.2	.6	.0		40.4	11.5	41.0	43.6	37.9	40.2
SE	7.0	26.2	5.9	.0	.0		39.1	10.9	36.9	44.2	40.6	35.9
S	2.7	3.4	1.2	.0	.0		7.2	9.5	5.5	6.7	7.5	10.3
SW	2.0	1.7	.1	.0	.0		3.7	7.2	3.3	1.8	4.6	4.9
W	.2	.5	.0	.0	.0		.7	7.8	1.6	.0	.7	.0
NW	.7	.0	.0	.0	.0		.7	3.7	1.6	.0	.0	1.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.4						3.4	.0	4.4	2.4	2.9	3.3
TOT OBS	129	269	68	3	0	469		10.3	159	82	136	92
TOT PCT	27.5	57.4	14.5	.6	.0		100.0		100.0	100.0	100.0	100.0

JUNE

PERIOD: (PRIMARY) 1880-1969
(OVER-ALL) 1857-1969

AREA C012 SOUTHEAST JAVA
8.8S 114.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	4.4	6.9	46.5	38.4	3.1	.6	.0	10.5	100.0	157
06&09	2.4	3.7	39.0	51.2	3.7	.0	.0	11.5	100.0	82
12&15	2.9	2.9	55.1	36.0	2.9	.0	.0	10.0	100.0	136
18&21	3.3	3.3	56.5	33.7	2.2	1.1	.0	9.6	100.0	92
TOT	16	21	233	183	14	2	0	10.3		469
PCT	3.4	4.5	49.7	39.0	3.0	.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	.0	1.3	.0	.0		3.0
NE	.6	.3	.0	.0		1.6
E	20.9	13.6	8.5	.0		3.0
SE	16.5	15.2	6.6	2.5		3.1
S	5.1	.0	1.3	2.2		4.1
SW	1.3	1.3	.0	.9		3.1
W	1.3	.0	1.3	.0		3.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	36	25	14	4	79	3.1
TOT PCT	45.6	31.6	17.7	5.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > /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	1.3	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	
E	.0	.0	.0	.0	.0	1.9	1.3	.0	.0	.0	39.9	
SE	.0	.0	.0	.0	1.3	3.2	1.3	.0	.0	.0	35.1	
S	.0	.0	.0	1.3	1.3	.0	.9	.0	.0	.0	5.1	
SW	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	2.5	
W	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	1.3	
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	1	3	4	3	0	0	0	68	79
TOT PCT	.0	.0	.0	1.3	3.8	5.1	3.8	.0	.0	.0	86.1	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	2.6	3.8	3.8	3.8	3.8	3.8	3.8	3.8
* OR >2000	6.4	9.0	9.0	9.0	9.0	9.0	9.0	9.0
* OR >1000	9.0	12.8	12.8	12.8	12.8	12.8	12.8	12.8
* OR >600	10.3	14.1	14.1	14.1	14.1	14.1	14.1	14.1
* OR >300	10.3	14.1	14.1	14.1	14.1	14.1	14.1	14.1
* OR >150	10.3	14.1	14.1	14.1	14.1	14.1	14.1	14.1
* OR > 0	10.3	14.1	14.1	14.1	14.1	14.1	14.1	14.1
TOTAL	8	11	11	11	11	11	11	11

TOTAL NUMBER OF OBS: 79 PCT FREQ NH <5/8: 85.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
6.0	19.3	34.9	19.3	6.0	4.8	3.6	1.2	4.8	.0	83

JUNE

PERIOD: (PRIMARY) 1880-1969
(OVER-ALL) 1857-1969

AREA 0012 SOUTHEAST JAVA
8.8S 114.4E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.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	1.9	.0	.0	.0	.0	.0	.0	1.9	
	TOT %	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	1.9	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.6	.6	.0	.0	.0	.0	.0	.0	.0	1.3	
	TOT %	.0	.6	.6	.0	.0	.0	.0	.0	.0	.0	1.3	
5<10	PCP	.0	.0	.3	.2	.0	.0	.0	.0	.0	.0	.6	
	NO PCP	.3	1.3	9.2	17.3	2.3	3.0	1.3	.3	.0	3.8	38.8	
	TOT %	.3	1.3	9.5	17.7	2.3	3.0	1.3	.3	.0	3.8	39.4	
10+	PCP	.0	.0	.5	.2	.0	.0	.0	.0	.0	.0	.6	
	NO PCP	.6	1.1	25.0	25.5	3.9		.0	.0	.0	.0	56.9	
	TOT %	.6	1.1	25.5	25.6	3.9	.0	.0	.0	.0	.0	57.5	
	TOT OBS												160
	TOT PCT	.9	3.0	35.6	45.2	6.3	3.8	1.3	.3	.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
<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	.1	.3	.9	.0	.0	.0	.0	.0		1.3	
	11-21	.0	.1	.3	.0	.4	.0	.0	.0	.0		.9	
	22+	.0	.0	.0	.4	.0	.0	.0	.0	.0		.4	
	TOT %	.0	.2	.6	1.3	.4	.0	.0	.0	.0	.0	2.6	
2<5	0-3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	4-10	.0	.0	.4	.0	.0	.0	.0	.0	.0		.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.9	
5<10	0-3	.2	.0	.2	.2	.0	.0	.0	.2	.0	2.6	3.5	
	4-10	.0	.4	4.2	3.8	1.2	2.1	.9	.0	.0		12.6	
	11-21	.0	.4	2.2	7.4	.4	.0	.0	.0	.0		10.4	
	22+	.0	.0	.2	1.1	.0	.0	.0	.0	.0		1.3	
	TOT %	.2	.9	6.8	12.4	1.6	2.1	.9	.2	.0	2.6	27.7	
10+	0-3	.2	.2	1.3	1.1	.5	.1	.0	.0	.0	1.7	5.2	
	4-10	.4	1.1	15.3	17.2	4.3	1.5	.0	.0	.0		39.8	
	11-21	.0	.1	10.9	9.3	1.5	.6	.0	.0	.0		22.5	
	22+	.0	.0	1.0	.3	.0	.0	.0	.0	.0		1.3	
	TOT %	.6	1.4	28.5	27.9	6.4	2.3	.0	.0	.0	1.7	68.8	
	TOT OBS												231
	TOT PCT	.9	2.9	36.4	41.7	8.4	4.3	.9	.2	.0	4.3	100.0	

PERIOD: (PRIMARY) 1880-1969
(OVER-ALL) 1857-1969

AREA 0012 SOUTHEAST JAVA
8.8S 114.4E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	.0	4.3	4.3	4.3	4.3	.0	.0	.0	17.4	82.6	23
06E09	.0	.0	.0	.0	10.0	5.0	.0	.0	.0	.0	15.0	85.0	20
12E15	.0	.0	.0	.0	.0	11.8	5.9	.0	.0	.0	17.6	82.4	17
18E21	.0	.0	.0	.0	.0	.0	4.5	.0	.0	.0	4.5	95.5	22
TOT	0	0	0	1	3	4	3	0	0	0	11	71	82
PCT	.0	.0	.0	1.2	3.7	4.9	3.7	.0	.0	.0	13.4	86.6	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	2.8	.0	39.4	57.7	71
06E09	.0	.0	4.7	.0	18.6	76.7	43
12E15	.0	.0	2.8	2.8	32.4	62.0	71
18E21	.0	.0	.0	.0	18.0	82.0	50
TOT	0	0	6	2	68	159	235
PCT	.0	.0	2.6	.9	28.9	67.7	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	4.3	13.0	82.6	23
06E09	.0	.0	.0	16.7	83.3	18
12E15	.0	.0	.0	17.6	82.4	17
18E21	.0	.0	.0	5.0	95.0	20
TOT	0	0	1	10	67	78
PCT	.0	.0	1.3	12.8	85.9	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	.9	.0	.9	3	2.6
80/84	.0	.0	.0	.0	6.1	21.9	33.3	13.2	85	74.6
75/79	.0	.0	.0	.0	.9	7.9	8.8	5.3	26	22.8
TOTAL	0	0	0	0	9	35	48	22	114	100.0
PCT	.0	.0	.0	.0	7.9	30.7	42.1	19.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	1.1	1.5	.0	.0	.0	.0	.0	.0
	1.3	1.1	30.0	32.5	3.5	1.3	0	.4	.0	4.4
	.0	.4	7.9	12.7	.9	.9	.0	.0	.0	.0
	1.3	1.5	39.0	46.7	4.4	2.2	.0	.4	.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
00E03	90	86	85	81	77	75	73	80.7	152
06E09	93	92	87	82	77	75	75	81.7	80
12E15	92	87	83	80	77	75	73	80.3	134
18E21	83	82	82	79	77	75	75	79.2	91
TOT	93	87	84	80	77	75	73	80.5	457

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	5.6	30.6	44.4	19.4	82	36
06E09	.0	.0	18.2	27.3	40.9	13.6	79	22
12E15	.0	.0	3.0	30.3	39.4	27.3	83	33
18E21	.0	.0	7.4	33.3	40.7	18.5	82	27
TOT	0	0	9	36	49	24	82	118

JUNE

PERIOD: (PRIMARY) 1880-1969
(OVER-ALL) 1857-1969

AREA 0012 SOUTHEAST JAVA
8.8S 114.4E

TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.0	.7	1	.0	.7
5	.0	.7	.0	.7	.0	2	.0	1.4
4	.0	.7	.7	1.4	.0	4	.7	2.1
3	.0	.0	1.4	1.4	.0	4	.0	2.9
2	.0	1.4	5.7	.0	.0	10	1.4	5.7
1	.0	7.1	8.6	.7	.0	23	.7	15.7
0	2.1	6.4	13.6	.7	.0	32	2.1	20.7
-1	.0	5.0	7.9	.7	.0	19	.0	13.6
-2	1.4	5.7	5.0	.0	.0	17	.7	11.4
-3	.0	5.7	1.4	.0	.0	10	.0	7.1
-4	.7	5.0	.7	.0	.0	9	.0	6.4
-5	.7	1.4	.0	.0	.0	3	.0	2.1
-9/-10	.0	2.9	.0	.0	.0	4	.0	2.9
-11/-13	1.4	.0	.0	.0	.0	2	.0	1.4
TOTAL	9	59	63	8	1	140	8	132
PCT	6.4	42.1	45.0	5.7	.7	100.0	5.7	94.3

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

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

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	.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	.0	.8	.0	.0	.0	.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	14.4	.0	.0	.0	.0	14.4
3-4	.0	3.0	10.6	.0	.0	.0	13.6
5-6	.0	.0	17.4	2.3	.0	.0	19.7
7	.0	.0	9.9	.0	.0	.0	9.8
8-9	.0	.0	.0	4.5	.0	.0	4.5
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	17.4	37.9	6.8	.0	.0	62.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	3.0	.0	.0	.0	.0	.0	3.0
1-2	.0	6.8	6.1	.0	.0	.0	12.9
3-4	.0	3.0	4.5	.0	.0	.0	7.6
5-6	.0	.0	.0	.8	.0	.0	.8
7	.0	.0	2.3	.0	.0	.0	2.3
8-9	.0	.0	.0	1.5	.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	3.0	9.8	12.9	2.3	.0	.0	28.0

PERIOD: (OVER-ALL) 1963-1969

JUNE

AREA 0012 SOUTHEAST JAVA
8.8S 114.4E

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	3.0	3.0	.0	.0	.0	6.1	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.0	3.0	.0	.0	.0	6.1	.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	3.0	.0	.0	.0	.0	.0	3.0	
1-2	.0	24.2	6.1	.0	.0	.0	30.3	
3-4	.0	6.1	15.2	.0	.0	.0	21.2	
5-6	.0	3.0	21.2	3.0	.0	.0	27.3	
7	.0	.0	12.1	.0	.0	.0	12.1	
8-9	.0	.0	.0	6.1	.0	.0	6.1	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.0	33.3	54.5	9.1	.0	.0	100.0	33

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	13.6	8.5	1.7	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	3
6-7	.0	.0	11.9	6.8	5.1	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	5
8-9	.0	.0	.0	.0	22.0	1.7	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	7
10-11	.0	.0	.0	1.7	6.8	3.4	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	8
12-13	.0	.0	1.7	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	1.7	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	1
TOTAL	1	9	13	6	20	7	2	1	0	0	0	0	0	0	0	0	0	0	0	59	5
PCT	1.7	15.3	22.0	10.2	33.9	11.9	3.4	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1877-1969
(OVER-ALL) 1857-1969

AREA 0012 SOUTHEAST JAVA
8.8S 114.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NE	9.1	.0	.0	.0	.0	.0	.0	9.1	.0	18.2	.0	18.2			.0	63.6
E	1.0	1.5	.0	.0	.0	.0	.0	2.6	.0	4.1	6.1	.0	4.1		.0	84.2
SE	.0	.3	.0	.0	.0	.0	.0	.3	.0	.0	5.5	.0	1.1		.0	93.1
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	5.6	.0	16.7		.0	72.2
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	100.0
TOT PCT	.6	.6	.0	.0	.0	.0	.0	1.2	.0	2.4	5.4	.0	4.2		.0	87.5
TOT OBS:	168															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER 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	.0	2.2	8.9	.0	8.9		.0	80.0
06&09	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.7	.0	5.1		.0	87.2
12&15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2		.0	97.8
18&21	2.4	2.4	.0	.0	.0	.0	.0	4.8	.0	7.1	4.8	.0	2.4		.0	83.3
TOT PCT	.6	.6	.0	.0	.0	.0	.0	1.2	.0	2.3	5.3	.0	4.7		.0	87.1
TOT OBS:	171															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	.2	.0	.0	.0		.2	12.0	1.1	.0	.0	.0	.0	.0	.0	.0
NE	.4	.9	.7	.0	.0	.0		2.0	8.2	3.8	2.3	3.7	1.9	1.4	1.1	1.9	1.0
E	1.0	14.0	21.2	1.2	.3	.0		37.6	12.2	40.1	36.2	47.0	39.6	33.9	35.4	43.3	39.6
SE	1.1	24.5	20.5	1.8	.3	.0		48.1	11.0	46.2	55.2	55.6	40.3	52.3	47.8	48.1	43.2
S	.8	4.5	2.0	.2	.0	.0		7.5	8.4	6.6	5.2	3.7	11.7	6.3	10.1	6.7	7.9
SW	.7	1.7	.7	.0	.0	.0		3.0	7.6	2.2	1.1	.0	4.5	3.3	3.4	.0	5.2
W	.0	.2	.0	.0	.0	.0		.2	5.0	.0	.0	.0	.6	.0	.0	.0	.5
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	1.5							1.5	.0	.0	.0	.0	1.3	2.8	2.2	.0	3.1
TOT OBS	33	274	271	19	3	0	600		10.9	91	87	27	77	107	89	26	98
TOT PCT	5.5	45.7	45.2	3.2	.5	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.0	.2	.0	.0	.0		.2	12.0	.0	.0	.0	.0
NE	.8	1.3	.0	.0	.0		2.0	8.2	3.1	2.4	1.3	1.2
E	5.9	23.1	8.0	.6	.0		37.6	12.2	38.2	38.9	34.6	40.4
SE	9.7	32.3	5.3	.8	.0		48.1	11.0	50.6	44.2	50.3	44.3
S	3.3	3.9	.3	.0	.0		7.5	8.4	5.9	9.6	8.0	7.2
SW	1.4	1.4	.2	.0	.0		3.0	7.6	1.7	3.4	3.3	4.1
W	.2	.0	.0	.0	.0		.2	5.0	.0	.5	.0	.4
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	1.5						1.5	.0	.0	1.0	2.6	2.5
TOT OBS	136	273	83	8	0	600		10.9	178	104	196	122
TOT PCT	22.7	42.2	13.8	1.3	.0		100.0		100.0	100.0	100.0	100.0

JULY

PERIOD: (PRIMARY) 1877-1969
(OVER-ALL) 1857-1969

AREA 0012 SOUTHEAST JAVA
8.0S 114.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00603	.0	3.4	42.1	48.9	5.6	.0	.0	11.7	100.0	178
06609	1.0	2.9	44.2	47.1	4.8	.0	.0	11.3	100.0	104
12615	2.6	6.1	47.4	41.8	1.0	1.0	.0	10.3	100.0	196
18621	2.5	2.5	49.2	43.4	1.6	.8	.0	10.4	100.0	122
TOT	9	24	274	271	19	3	0	10.9		600
PCT	1.5	4.0	45.7	45.2	3.2	.5	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	1.1	.0		6.0
NE	.0	.0	.0	1.7		8.0
E	16.1	6.0	4.9	2.3		3.2
SE	29.3	12.9	14.7	2.9		3.2
S	2.9	2.9	.0	.0		1.8
SW	.0	.0	1.1	.0		6.0
W	.0	.0	.0	.0		.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	.0	1.1	.0	.0		4.0
TOT OBS	42	20	19	6	87	3.3
TOT PCT	48.3	23.0	21.8	6.9	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 499	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	
NE	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.6	
E	.0	.0	.0	1.7	.9	1.1	1.1	.0	.0	.0	24.4	
SE	.0	.0	.0	1.7	8.3	.0	2.3	.0	.0	.0	47.4	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.7	
SW	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	
TOT OBS	0	0	0	4	8	2	4	0	0	0	69	87
TOT PCT	.0	.0	.0	4.6	9.2	2.3	4.6	.0	.0	.0	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 >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	3.4	4.5	4.5	4.5	4.5	4.5	4.5	4.5
* OR >2000	5.6	6.7	6.7	6.7	6.7	6.7	6.7	6.7
* OR >1000	14.6	15.7	15.7	15.7	15.7	15.7	15.7	15.7
* OR >600	18.0	20.2	20.2	20.2	20.2	20.2	20.2	20.2
* OR >300	18.0	20.2	20.2	20.2	20.2	20.2	20.2	20.2
* OR >150	18.0	20.2	20.2	20.2	20.2	20.2	20.2	20.2
* OR > 0	18.0	20.2	20.2	20.2	20.2	20.2	20.2	20.2
TOTAL	16	18	18	18	18	18	18	18

TOTAL NUMBER OF OBS: 89

PCT FREQ NH <5/8: 79.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
9.2	17.3	29.6	18.4	7.1	2.0	7.1	5.1	4.1	.0	98

JULY

PERIOD: (PRIMARY) 1877-1969
(OVER-ALL) 1857-1969

AREA 0012 SOUTHEAST JAVA
8.8S 114.3E

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	1.8	2.4	1.2	.0	.0	.0	.0	.0	5.4	
	TOT %	.0	.0	1.8	2.4	1.2	.0	.0	.0	.0	.0	5.4	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.6	1.2	.6	.6	.0	.0	.0	.0	.0	3.0	
	TOT %	.0	.6	1.2	.6	.6	.0	.0	.0	.0	.0	3.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.6	.0	.6	.6	.0	.0	.0	.0	1.8	
	TOT %	.0	.0	.6	.0	.6	.6	.0	.0	.0	.0	1.8	
5<10	PCP	.0	.0	.4	.1	.0	.0	.0	.0	.0	.0	.6	
	NO PCP	.0	1.6	5.8	11.6	3.6	1.2	.0	.0	.0	.0	23.8	
	TOT %	.0	1.6	6.3	11.8	3.6	1.2	.0	.0	.0	.0	24.4	
10+	PCP	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.6	
	NO PCP	.6	.7	19.0	39.1	4.8	.0	.0	.0	.0	.6	64.9	
	TOT %	.6	1.0	19.3	39.1	4.8	.0	.0	.0	.0	.6	65.5	
	TOT OBS												168
	TOT PCT	.6	3.3	29.2	53.9	10.7	1.8	.0	.0	.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	.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	1.4	.4	.0	.0	.0	.0		2.8	
	11-21	.0	.0	.0	.0	.4	.0	.0	.0	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	1.1	1.4	.7	.0	.0	.0	.0	.0	3.2	
1<2	0-3	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.4	
	4-10	.0	.4	.0	.2	.2	.0	.0	.0	.0		.7	
	11-21	.0	.0	.7	.2	.2	.0	.0	.0	.0		1.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.4	.7	.4	.7	.0	.0	.0	.0	.0	2.1	
2<5	0-3	.0	.0	.4	.0	.0	.4	.0	.0	.0	.4	1.1	
	4-10	.0	.0	.5	.2	.4	.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	.9	.2	.4	.4	.0	.0	.0	.4	2.1	
5<10	0-3	.0	.4	.0	.0	.2	.2	.0	.0	.0	.0	.7	
	4-10	.0	.3	2.7	4.1	1.2	.5	.0	.0	.0		8.9	
	11-21	.0	.4	1.0	2.2	1.2	.2	.0	.0	.0		5.0	
	22+	.0	.0	.0	.7	.0	.0	.0	.0	.0		.7	
	TOT %	.0	1.0	3.7	7.0	2.7	.9	.0	.0	.0	.0	15.2	
10+	0-3	.0	.2	.5	.7	.4	.0	.0	.0	.0	2.1	3.9	
	4-10	.0	1.0	12.7	23.8	3.6	1.6	.2	.0	.0		42.9	
	11-21	.4	.0	11.1	17.0	.8	.7	.0	.0	.0		29.8	
	22+	.0	.0	.0	.4	.4	.0	.0	.0	.0		.7	
	TOT %	.4	1.2	24.3	41.9	5.0	2.3	.2	.0	.0	2.1	77.3	
	TOT OBS												282
	TOT PCT	.4	2.5	30.7	50.9	9.4	3.5	.2	.0	.0	2.5	100.0	

JULY

PERIOD: (PRIMARY) 1877-1969
(OVER-ALL) 1857-1969

AREA 0012 SOUTHEAST JAVA
8.8S 114.3E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00Z03	.0	.0	.0	4.3	8.7	4.3	8.7	.0	.0	.0	26.1	73.9	23
06Z09	.0	.0	.0	7.1	7.1	3.6	7.1	.0	.0	.0	25.0	75.0	28
12Z15	.0	.0	.0	.0	10.0	.0	.0	.0	.0	.0	10.0	90.0	20
18Z21	.0	.0	.0	3.7	7.4	.0	.0	.0	.0	.0	11.1	88.9	27
TOT	0	0	0	4	8	2	4	0	0	0	18	80	98
PCT	.0	.0	.0	4.1	8.2	2.0	4.1	.0	.0	.0	18.4	81.6	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	6.4	3.8	2.6	16.7	70.5	78
06Z09	.0	5.6	3.7	1.9	7.4	81.5	54
12Z15	.0	.0	2.3	3.5	18.6	75.6	86
18Z21	.0	1.5	.0	.0	16.2	82.4	68
TOT	0	9	7	6	44	220	286
PCT	.0	3.1	2.4	2.1	15.4	76.9	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
00Z03	.0	.0	4.8	23.8	71.4	21
06Z09	.0	.0	8.7	21.7	69.6	23
12Z15	.0	.0	.0	10.5	89.5	19
18Z21	.0	.0	3.8	7.7	88.5	26
TOT	0	0	4	14	71	89
PCT	.0	.0	4.5	15.7	79.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.0	2.2	.0	.0	3	2.2
80/84	.0	.0	.0	1.4	6.5	19.4	7.2	1.4	50	36.0
75/79	.0	.0	.0	.0	4.3	20.9	24.5	11.5	85	61.2
70/74	.0	.0	.0	.0	.0	.0	.0	.7	1	.7
TOTAL	0	0	0	2	15	59	44	19	139	100.0
PCT	.0	.0	.0	1.4	10.8	42.4	31.7	13.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.7	.0	.0	.0	.7	.0	.0	.0	.0	.7
.0	1.1	13.5	18.5	2.5	.4	.0	.0	.0	.0
.0	1.8	17.1	34.5	7.7	.0	.0	.0	.0	.0
.0	.0	.0	.0	.4	.4	.0	.0	.0	.0
.7	2.9	30.6	53.1	11.3	.7	.0	.0	.0	.7

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00Z03	86	84	82	79	76	75	74	78.9	177
06Z09	85	84	83	80	76	74	74	79.7	102
12Z15	88	84	81	78	74	73	73	77.8	195
18Z21	82	81	81	77	74	74	73	77.3	121
TOT	88	84	82	78	75	74	73	78.4	595

TABLE 16

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	2.5	52.5	32.5	12.5	81	40
06Z09	.0	5.6	25.0	41.7	19.4	8.3	75	36
12Z15	.0	.0	9.4	34.4	40.6	15.6	81	32
18Z21	.0	.0	5.7	40.0	37.1	17.1	81	35
TOT	0	2	15	61	46	19	80	143

JULY

PERIOD: (PRIMARY) 1877-1969
(OVER-ALL) 1857-1969

AREA 0012 SOUTHEAST JAVA
8.8S 114.3E

TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.7	1	.0	.7
5	.0	.0	1.5	1.5	4	.0	2.9
4	.0	2.2	1.5	.0	5	.0	3.7
3	.0	1.5	5.1	.0	9	.7	5.9
2	.7	3.7	3.7	.7	12	.0	8.8
1	1.5	7.4	1.5	.0	14	1.5	8.8
0	1.5	19.9	7.4	.0	39	.7	27.9
-1	.7	19.9	.7	.0	29	.7	20.6
-2	1.5	7.4	.0	.0	12	.0	8.8
-3	.0	.0	.7	.0	1	.0	.7
-4	1.5	2.2	.0	.0	5	.7	2.9
-5	.7	.7	.0	.0	2	.0	1.5
-6	.0	.7	.0	.0	1	.0	.7
-7/-8	.7	.0	.0	.0	1	.0	.7
-11/-13	.7	.0	.0	.0	1	.0	.7
TOTAL	13	89	30	4	136	6	130
PCT	9.6	65.4	22.1	2.9	100.0	4.4	95.6

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

	N							NE						
HGT	1-3	4-10	11-21	27-33	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

	E							SE						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.0	.0	.0	.0	.0	2.0	2.7	.7	.0	.0	.0	.0	3.4
1-2	.0	2.7	4.1	.0	.0	.0	6.8	.0	5.4	9.5	.0	.0	.0	14.9
3-4	.0	2.0	15.5	.0	.0	.0	17.6	.0	9.5	19.6	.0	.0	.0	29.1
5-6	.0	.0	6.1	.0	.0	.0	6.1	.0	.0	15.5	.0	.0	.0	15.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.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	6.8	25.7	.0	.0	.0	32.4	2.7	15.5	44.6	.0	.0	.0	62.8

PERIOD: (OVER-ALL) 1963-1969

JULY

AREA 0012 SOUTHEAST JAVA
8.0S 114.3E

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	2.7	.0	.0	.0	.0	2.7
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	4.7	.0	.0	.0	.0	4.7

SW

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

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.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	2.7	2.7	.0	.0	.0	.0	5.4	
1-2	.0	10.8	13.5	.0	.0	.0	24.3	
3-4	.0	13.5	35.1	.0	.0	.0	48.6	
5-6	.0	.0	21.6	.0	.0	.0	21.6	
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	2.7	27.0	70.3	.0	.0	.0	100.0	37

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	1.6	9.5	14.3	6.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	3
6-7	.0	.0	4.8	4.8	1.6	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	5
8-9	.0	.0	1.6	4.8	9.5	1.6	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	7
10-11	.0	.0	.0	1.6	9.5	11.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	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	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	10
INDET	.0	.0	3.2	4.8	.0	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	5
TOTAL	1	6	15	14	13	12	1	0	1	0	0	0	0	0	0	0	0	0	0	63	5
PCT	1.6	9.5	23.8	22.2	20.6	19.0	1.6	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1877-1969
(OVER-ALL) 1857-1969

AREA 0012 SOUTHEAST JAVA
8.9S 114.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
E	.0	1.6	.0	.0	.0	.0	.0	1.6	.0	.0	.0	.0	4.2	.0		94.2
SE	.0	.3	.0	.0	.0	.0	.0	.3	2.1	.0	1.0	.0	1.6	.0		95.1
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7	.0		93.3
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		.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	.0	.6	.0	.0	.0	.0	.0	.6	1.2	.0	.6	.0	2.5	.0		95.1
TOT OBS:	162															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER 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	.0	1.8	.0	.0	.0	.0	.0	1.8	1.8	.0	.0	.0	5.5	.0		90.9
06E09	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	.0		96.4
12E15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
18E21	.0	.0	2.1	.0	.0	.0	.0	2.1	2.1	.0	2.1	.0	.0	.0		93.6
TOT PCT	.0	.6	.6	.0	.0	.0	.0	1.2	1.2	.0	.6	.0	2.4	.0		94.7
TOT OBS:	169															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	.0	.0	.0	.0	.0		.3	2.0	.9	.0	.0	.0	.0	.7	.0	.0
NE	.4	1.7	.3	.0	.0	.0		2.4	7.2	1.9	2.2	.0	.0	6.2	2.6	.0	2.3
E	2.1	15.9	13.8	1.4	.0	.0		33.3	10.9	37.6	36.0	35.0	30.5	28.4	33.2	32.0	32.6
SE	2.0	26.2	22.0	1.6	.0	.0		51.8	10.8	49.1	49.4	60.0	58.5	53.1	46.4	61.7	50.6
S	.7	5.6	1.8	.2	.0	.0		8.3	8.7	6.3	7.9	5.0	11.0	9.6	9.9	3.1	8.7
SW	.3	1.1	.2	.0	.0	.0		1.5	6.1	2.3	.6	.0	.0	.6	2.0	.0	4.1
W	.2	.2	.0	.0	.0	.0		.4	4.5	.5	1.1	.0	.0	.0	.0	.0	.6
NW	.1	.3	.0	.0	.0	.0		.4	4.2	.5	1.7	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0	.9	1.1	.0	.0	2.2	5.3	3.1	1.2
TOT OBS	44	286	214	18	0	0	562		10.3	107	89	15	68	89	76	32	86
TOT PCT	7.8	50.9	38.1	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	.0	.0	.0	.0		.3	2.0	.5	.0	.3	.0
NE	1.1	1.2	.1	.0	.0		2.4	7.2	2.0	.0	4.5	1.7
E	7.0	20.2	6.0	.1	.0		33.3	10.9	36.9	31.3	30.6	32.4
SE	10.6	33.1	8.0	.1	.0		51.8	10.8	49.2	58.7	50.0	53.6
S	3.4	4.0	.9	.0	.0		8.3	8.7	7.0	9.9	9.7	7.2
SW	1.1	.4	.0	.0	.0		1.5	6.1	1.5	.0	1.2	3.0
W	.3	.1	.0	.0	.0		.4	4.5	.8	.0	.0	.4
NW	.4	.0	.0	.0	.0		.4	4.2	1.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.8						1.8	.0	1.0	.0	3.6	1.7
TOT OBS	145	332	84	1	0	562		10.3	196	83	165	118
TOT PCT	25.8	59.1	14.9	.2	.0		100.0		100.0	100.0	100.0	100.0

AUGUST

PERIOD: (PRIMARY) 1877-1969
(OVER-ALL) 1857-1969

AREA 0012 SOUTHEAST JAVA
8.9S 114.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00603	1.0	7.1	49.0	39.8	3.1	.0	.0	10.3	100.0	196
06609	.0	1.2	53.0	41.0	4.8	.0	.0	11.0	100.0	83
12615	3.6	5.5	49.7	38.2	3.0	.0	.0	10.4	100.0	165
18621	1.7	8.5	54.2	33.1	2.5	.0	.0	9.6	100.0	118
TOT	10	34	286	214	18	0	0	10.3		562
PCT	1.8	6.0	50.9	38.1	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	.0	.0	.0	.0		.0
NE	.0	.0	.0	.0		.0
E	20.5	6.0	4.5	2.4		2.6
SE	25.3	16.9	12.7	3.9		3.3
S	2.4	.0	2.1	2.1		4.8
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	1.2	.0	.0	.0		.0
TOT OBS	41	19	16	7	83	3.1
TOT PCT	49.4	22.9	19.3	8.4	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	.0	.0	.0	.0	.0	.0	.0	.0	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
E	.0	.0	1.2	2.1	1.2	.0	.0	.0	.0	.0	28.9	
SE	.0	.0	1.2	3.0	.0	1.2	.0	.0	.0	.0	53.3	
S	.0	.0	.0	.9	.0	1.2	.0	.0	.0	.0	4.5	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	
TOT OBS	0	0	2	5	1	2	0	0	0	0	73	83
TOT PCT	.0	.0	2.4	6.0	1.2	2.4	.0	.0	.0	.0	88.0	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 >500YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >2000	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
* OR >1000	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
* OR >600	7.0	10.5	10.5	10.5	10.5	10.5	10.5	10.5
* OR >300	8.1	11.6	11.6	12.8	12.8	12.8	12.8	12.8
* OR >150	8.1	11.6	11.6	12.8	12.8	12.8	12.8	12.8
* OR > 0	8.1	11.6	11.6	12.8	12.8	12.8	12.8	12.8
TOTAL	7	10	10	11	11	11	11	11

TOTAL NUMBER OF OBS: 86 PCT FREQ NH <5/8: 87.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
12.2	30.0	14.4	16.7	13.3	1.1	4.4	3.3	4.4	.0	90

AUGUST

PERIOD: (PRIMARY) 1877-1969
(OVER-ALL) 1857-1969

AREA 0012 SOUTHEAST JAVA
8.9S 114.4E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.6	
	TOT %	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.6	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	1.2	.3	.3	.0	.0	.0	.0	.0	1.9	
	TOT %	.0	.0	1.2	.3	.3	.0	.0	.0	.0	.0	1.9	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	1.9	
	TOT %	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	1.9	
5<10	PCP	.0	.0	.5	.2	.0	.0	.0	.0	.0	.0	.6	
	NO PCP	.0	.9	9.9	20.5	.8	1.2	.0	.0	.0	.6	34.0	
	TOT %	.0	.9	10.3	20.7	.8	1.2	.0	.0	.0	.6	34.6	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	1.5	17.6	37.8	3.5	.0	.0	.0	.0	.6	61.1	
	TOT %	.0	1.5	17.6	37.8	3.5	.0	.0	.0	.0	.6	61.1	
	TOT OBS												162
	TOT PCT	.0	4.3	29.2	59.4	4.6	1.2	.0	.0	.0	1.2	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.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	.4	.0	.0	.0	.0	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.8	.2	.2	.0	.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 %	.0	.0	.8	.2	.2	.0	.0	.0	.0	.0	1.2	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	1.2	.0	.0	.0	.0	.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 %	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	1.2	
5<10	0-3	.0	.8	1.6	1.0	.2	.0	.0	.0	.0	.4	4.0	
	4-10	.0	.4	5.0	8.6	.3	.8	.0	.0	.0		15.1	
	11-21	.0	.0	1.9	3.3	.0	.0	.0	.0	.0		5.2	
	22+	.0	.0	.2	1.4	.0	.0	.0	.0	.0		1.6	
	TOT %	.0	1.2	8.6	14.3	.5	.8	.0	.0	.0	.4	25.8	
10+	0-3	.2	.2	.8	2.2	1.4	.0	.0	.0	.0	2.4	7.1	
	4-10	.0	.6	11.2	21.1	3.4	.4	.2	.0	.0		36.9	
	11-21	.0	.4	5.7	18.3	1.1	.0	.0	.0	.0		25.4	
	22+	.0	.0	1.2	.4	.4	.0	.0	.0	.0		2.0	
	TOT %	.2	1.2	18.8	42.0	6.3	.4	.2	.0	.0	2.4	71.4	
	TOT OBS												252
	TOT PCT	.2	3.6	28.3	56.8	6.9	1.2	.2	.0	.0	2.8	100.0	

AUGUST

PERIOD: (PRIMARY) 1877-1969
(OVER-ALL) 1857-1969

AREA 0012 SOUTHEAST JAVA
8.95 114.4E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	4.2	12.5	.0	4.2	.0	.0	.0	.0	20.8	79.2	24
06E09	.0	.0	.0	6.7	.0	.0	.0	0	.0	.0	6.7	93.3	15
12E15	.0	.0	.0	6.7	.0	.0	.0	.0	.0	.0	6.7	93.3	15
18E21	.0	.0	2.9	.0	5.7	2.9	.0	.0	.0	.0	11.4	88.6	35
TOT	0	0	2	5	2	2	0	0	0	0	11	78	89
PCT	.0	.0	2.2	5.6	2.2	2.2	.0	.0	.0	.0	12.4	87.6	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	3.9	.0	36.4	59.7	77
06E09	.0	.0	.0	.0	28.6	71.4	42
12E15	.0	.0	.0	4.2	25.0	70.8	72
18E21	.0	1.5	.0	.0	16.2	82.4	68
TOT	0	1	3	3	69	183	259
PCT	.0	.4	1.2	1.2	26.6	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	4.3	17.4	4.3	78.3	23
06E09	.0	.0	6.7	.0	93.3	15
12E15	.0	.0	6.7	.0	93.3	15
18E21	.0	3.0	3.0	9.1	87.9	33
TOT	0	2	7	4	75	86
PCT	.0	2.3	8.1	4.7	87.2	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	.7	1.4	.0	.0	.0	3	2.1
80/84	.0	.0	.0	.0	2.9	13.7	9.3	1.4	34	24.3
75/79	.0	.0	.0	.0	1.4	25.0	30.0	15.7	101	72.1
70/74	.0	.0	.0	.0	.0	.0	.0	1.4	2	1.4
TOTAL	0	0	0	1	8	50	55	26	140	100.0
PCT	.0	.0	.0	.7	5.7	35.7	39.3	18.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.4	1.1	.0	.0	.0	.0	.0	.7
	.0	1.1	9.3	12.2	.0	.7	.0	.0	.0	.0
	.0	1.1	20.9	45.4	4.1	.7	.0	.0	.0	.0
	.0	.0	.7	.7	.0	.0	.0	.0	.0	.0
	.0	2.1	31.3	60.4	4.1	1.4	.0	.0	.0	.7

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	87	85	82	79	75	73	73	78.9	197
06E09	89	88	83	80	76	74	74	79.5	83
12E15	84	82	81	77	74	73	72	77.5	163
18E21	82	81	79	77	74	73	73	76.9	119
TOT	89	84	82	78	75	73	72	78.2	562

TABLE 16

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	9.8	39.2	33.3	7.8	81	51
06E09	.0	4.3	13.0	43.5	39.1	.0	76	23
12E15	.0	.0	3.2	19.4	54.8	22.6	84	31
18E21	.0	.0	.0	35.7	35.7	28.6	83	42
TOT	0	1	9	51	58	28	82	147

AUGUST

PERIOD: (PRIMARY) 1877-1969
(OVER-ALL) 1857-1969

AREA 0012 SOUTHEAST JAVA
6.9S 114.4E

TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	%D FOG
9/10	.0	.0	.0	.0	.8	1	.0	.8
7/8	.0	.0	2.3	.8	.0	4	.0	3.1
5	.0	.0	3.1	.8	.0	5	.0	3.8
4	.0	.8	2.3	.0	.0	4	.0	3.1
3	.0	.0	3.1	.0	.0	4	.0	3.1
2	.0	3.8	3.8	.0	.0	10	.0	7.7
1	2.3	12.3	.0	.0	.0	19	.0	14.6
0	3.1	22.3	.0	.0	.0	33	.0	25.4
-1	2.3	16.2	.0	.0	.0	24	.0	18.5
-2	6.2	4.6	.0	.0	.0	14	.0	10.8
-3	1.5	2.3	.0	.0	.0	5	.0	3.8
-4	.8	2.3	.0	.0	.0	4	.0	3.1
-5	.0	1.5	.0	.0	.0	2	.0	1.5
-6	.8	.0	.0	.0	.0	1	.0	.8
TOTAL	22	86	19	2	1	130	0	130
PCT	16.9	66.2	14.6	1.5	.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	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NE

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

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.0	.0	.0	.0	.0	2.0
1-2	.0	9.3	6.9	.0	.0	.0	16.2
3-4	.0	3.4	7.4	5.9	.0	.0	16.7
5-6	.0	3.4	.0	.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	18.1	14.2	5.9	.0	.0	38.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.0	.0	.0		.0	2.0
1-2	.0	10.8	9.3	.0		.0	20.1
3-4	.0	6.4	16.2	2.0		.0	24.5
5-6	.0	.5	5.9	.0		.0	6.4
7	.0	.0	.0	.0		.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.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	31.4	2.0	.0	.0	52.9

PERIOD: (OVER-ALL) 1963-1969

AUGUST

TABLE 18 (CONT)

AREA 0012 SOUTHEAST JAVA
8.9S 114.4E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.4	1.5	.0	.0	.0	4.9	.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	2.0	.0	2.0	.0	.0	3.9	.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	5.4	1.5	2.0	.0	.0	8.8	.0	.0	.0	.0	.0	.0	.0

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.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	3.8	.0	.0	.0	.0	3.8	
1-2	.0	26.4	17.0	.0	.0	.0	43.4	
3-4	.0	9.4	22.6	7.5	.0	.0	39.6	
5-6	.0	5.7	5.7	1.9	.0	.0	13.2	
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	
								53
TOT PCT	.0	45.3	45.3	9.4	.0	.0	100.0	

PERIOD: (OVER-ALL) 1950-1969

TABLE 19

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

PERIOD (SEC)	<1	1-2	[illegible]	[illegible]-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	14.5	19.	9.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	3
6-7	.0	4.8	8.[illegible]	4.8	4.8	1.6	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	5
8-9	.0	.0	8.1	4.8	3.2	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	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	4.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	8
INDET	1.6	1.6	[illegible].6	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	3
TOTAL	1	13	[illegible]3	13	[illegible]	6	0	1	0	0	0	0	0	0	0	0	0	0	0	62	4
PCT	1.6	21.0	37.1	21.0	8.1	9.7	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1878-1969
(OVER-ALL) 1859-1969

AREA 0012 SOUTHEAST JAVA
8.95 114.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	28.6	.0	.0	28.6	.0		42.9
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	6.1	.0	4.0	.0		87.9
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	.0	.6	.0		95.7
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	.0	.0	.0		98.2
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	66.7	.0		33.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	3.5	.0	2.1	.0		93.7
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	THD LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1	.0	5.1	.0		89.7
06609	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	.0	.0	.0		96.8
12615	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	2.3	.0	.0	.0		95.3
18621	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	.0	3.1	.0		93.8
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	3.4	.0	2.1	.0		93.8
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	.0	.2	.0	.0	.0	.0		.2	5.0	.0	.0	.0	.0	.0	.0	.0	1.3
NE	.2	1.0	.0	.0	.0	.0		1.2	7.0	2.6	.0	.0	.0	1.2	.7	1.5	2.5
E	1.3	10.4	7.9	.4	.0	.0		19.9	10.4	23.9	20.1	26.3	16.7	18.3	20.9	7.4	20.0
SE	3.6	24.2	23.2	.6	.0	.0		51.6	10.5	49.7	49.0	53.9	58.3	57.0	50.0	58.8	45.0
S	1.8	12.4	5.8	.2	.0	.0		20.2	8.4	19.9	23.7	14.5	19.2	18.6	20.1	30.9	18.1
SW	.5	3.4	.2	.0	.0	.0		4.1	7.0	1.7	5.2	5.3	4.2	4.9	4.5	1.5	4.4
W	.0	.4	.0	.0	.0	.0		.4	8.0	.0	.5	.0	1.7	.0	.7	.0	.0
NW	.0	.3	.0	.0	.0	.0		.3	5.0	.0	.5	.0	.0	.0	.0	.0	1.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.1							2.1	.0	2.3	1.0	.0	.0	.0	3.0	.0	7.5
TOT OBS	49	268	191	6	0	0	514		9.6	88	97	19	60	86	67	17	80
TOT PCT	9.5	52.1	37.2	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	.2	.0	.0	.0	.0		.2	5.0	.0	.0	.0	1.0
NE	.4	.7	.0	.0	.0		1.2	7.0	1.2	.0	1.0	2.3
E	5.1	11.6	3.3	.0	.0		19.9	10.4	21.9	19.0	19.4	17.8
SE	13.5	29.7	8.2	.2	.0		51.6	10.5	49.3	57.3	53.9	47.4
S	8.3	11.1	.8	.0	.0		20.2	8.4	21.9	18.0	19.3	20.4
SW	1.8	2.2	.0	.0	.0		4.1	7.0	3.5	4.4	4.7	3.9
W	.1	.3	.0	.0	.0		.4	8.0	.3	1.3	.3	.0
NW	.3	.0	.0	.0	.0		.3	5.0	.3	.0	.0	1.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.1						2.1	.0	1.6	.0	1.3	6.2
TOT OBS	164	286	63	1	0	514		9.6	185	79	153	97
TOT PCT	31.9	55.6	12.3	.2	.0		100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1878-1969
(OVER-ALL) 1859-1969

AREA 0012 SOUTHEAST JAVA
8.95 114.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
				WIND SPEED (KNOTS)						
00603	1.6	9.2	48.1	40.0	1.1	.0	.0	9.8	100.0	185
06609	.0	2.5	57.0	40.5	.0	.0	.0	10.3	100.0	7
12615	1.3	8.5	56.2	32.0	2.0	.0	.0	9.3	100.0	15[illegible]
18621	6.2	6.2	49.5	37.1	1.0	.0	.0	9.0	100.0	97
TOT	11	38	268	191	6	0	0	9.6		514
PCT	2.1	7.4	52.1	37.2	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	.0	.0		.0
NE	.0	.0	.0	.0		.0
E	12.3	4.4	7.1	.0		2.8
SE	28.6	28.6	8.3	.0		2.7
S	5.2	2.4	3.6	.0		3.0
SW	.0	1.6	.0	.0		4.0
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	29	22	12	0	63	2.8
TOT PCT	46.0	34.9	19.0	.0	100.0	

TABLE 6

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

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
E	.0	.0	.0	.0	2.4	.0	1.6	.0	.0	.0	15.8	
SE	.0	.0	.0	.0	3.6	1.6	.0	.0	.0	.0	58.3	
S	.0	.0	.0	.0	2.0	.0	1.6	.0	.0	.0	7.5	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	
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	0	5	1	2	0	0	0	55	63
TOT PCT	.0	.0	.0	.0	7.9	1.6	3.2	.0	.0	.0	87.3	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	.0	.0	.0	.0	.0	.0	.0	.0
= OR >3300	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
= OR >2000	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
= OR >1000	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
= OR >600	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
= OR >300	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
= OR >150	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
= OR > 0	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
TOTAL	8	8	8	8	8	8	8	8

TOTAL NUMBER OF OBS: 64 PCT FREQ NH <5/8: 87.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
15.5	16.9	32.4	14.1	9.9	8.5	2.8	.0	.0	.0	71

SEPTEMBER

PERIOD: (PRIMARY) 1878-1969
(OVER-ALL) 1859-1969

AREA 0012 SOUTHEAST JAVA
8.9S 114.4E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.7	
	TOT %	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.7	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.4	.7	1.4	.4	.0	.0	.7	.0	.0	3.5	
	TOT %	.0	.4	.7	1.4	.4	.0	.0	.7	.0	.0	3.5	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.7	
	TOT %	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.7	
5<10	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.4	2.5	13.7	7.0	3.2	.4	.4	.0	.0	27.5	
	TOT %	.0	.4	2.5	13.7	7.0	3.2	.4	.4	.0	.0	27.5	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.5	12.9	41.5	12.0	.7	.0	.0	.0	.0	67.6	
	TOT %	.0	.5	12.9	41.5	12.0	.7	.0	.0	.0	.0	67.6	
	TOT OBS												142
	TOT PCT	.0	1.2	16.7	57.4	19.4	3.9	.4	1.1	.0	.0	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.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	.5	.0	.0	.0	.0	.0		.5	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.3	1.0	.7	.2	.0	.0	.5	.0		2.7	
	11-21	.0	.0	.2	.2	.0	.0	.0	.0	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.3	1.2	.9	.2	.0	.0	.5	.0	.0	3.2	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.5	.0	.0	.0	.0	.0	.0		.5	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.5	
5<10	0-3	.0	.0	.2	2.0	1.4	.0	.0	.0	.0	.0	3.6	
	4-10	.0	.7	1.1	4.5	2.5	2.0	.2	.2	.0		11.3	
	11-21	.0	.0	.5	3.8	.7	.0	.0	.0	.0		5.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.7	1.8	10.4	4.5	2.0	.2	.2	.0	.0	19.9	
10+	0-3	.0	.5	.5	1.4	.5	.0	.0	.0	.0	3.2	5.9	
	4-10	.5	1.2	9.3	24.5	10.1	1.5	.0	.0	.0		47.1	
	11-21	.0	.0	4.9	13.3	2.6	.3	.0	.0	.0		23.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.5	1.7	14.6	41.2	13.1	1.8	.0	.0	.0	3.2	76.0	
	TOT OBS												221
	TOT PCT	.5	2.7	18.1	52.9	17.9	3.8	.2	.7	.0	3.2	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1878-1969
(OVER-ALL) 1859-1969

AREA 0012 SOUTHEAST JAVA
8.9S 114.4E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00Z03	.0	.0	.0	.0	11.1	5.6	5.6	.0	.0	.0	22.2	77.8	18
06Z09	.0	.0	.0	.0	11.1	.0	.0	.0	.0	.0	11.1	88.9	18
12Z15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	18
18Z21	.0	.0	.0	.0	5.9	.0	5.9	.0	.0	.0	11.8	88.2	17
TOT	0	0	0	0	5	1	2	0	0	0	8	63	71
PCT	.0	.0	.0	.0	7.0	1.4	2.8	.0	.0	.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
00Z03	.0	1.6	3.2	.0	20.6	74.6	63
06Z09	.0	.0	.0	.0	25.0	75.0	40
12Z15	.0	.0	4.5	1.5	21.2	72.7	66
18Z21	.0	.0	3.7	.0	14.8	81.5	54
TOT	0	1	7	1	45	169	223
PCT	.0	.4	3.1	.4	20.2	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
00Z03	.0	.0	.0	22.2	77.8	18
06Z09	.0	.0	.0	12.5	87.5	16
12Z15	.0	.0	.0	.0	100.0	16
18Z21	.0	.0	.0	14.3	85.7	14
TOT	0	0	0	8	56	64
PCT	.0	.0	.0	12.5	87.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.9	.0	.0	.0	1	.9
80/84	.0	.0	.0	.0	6.8	17.9	6.8	.0	37	31.6
75/79	.0	.0	.0	1.7	4.3	23.1	34.2	3.4	78	66.7
70/74	.0	.0	.0	.0	.0	.0	.0	.9	1	.9
TOTAL	0	0	0	2	14	48	48	5	117	100.0
PCT	.0	.0	.0	1.7	12.0	41.0	41.0	4.3		

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	.4	6.8	18.6	3.6	1.3	.4	.4	.0	.0
	.0	.4	7.9	41.0	13.5	3.0	.0	.9	.0	.0
	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0
	.0	.9	14.7	60.5	17.9	4.3	.4	1.3	.0	.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00Z03	87	86	84	80	77	75	75	79.8	179
06Z09	86	85	84	80	77	75	75	80.6	79
12Z15	82	84	82	78	75	74	74	78.4	153
18Z21	86	83	80	77	74	73	73	77.4	99
TOT	87	86	83	79	75	74	73	79.1	510

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00Z03	.0	3.0	3.0	60.6	30.3	3.0	78	33
06Z09	.0	3.8	30.8	42.3	23.1	.0	74	26
12Z15	.0	.0	12.1	33.3	51.5	3.0	80	33
18Z21	.0	.0	3.7	22.2	59.3	14.8	83	27
TOT	0	2	14	48	49	6	79	119

SEPTEMBER

PERIOD: (PRIMARY) 1878-1969
(OVER-ALL) 1859-1969

AREA 0012 SOUTHEAST JAVA
8.0S 114.4E

TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
6	.0	.0	2.2	.0	2	.0	2.2
4	.0	.0	2.2	.0	2	.0	2.2
3	.0	.0	5.5	1.1	6	.0	6.6
2	.0	3.3	3.3	.0	6	.0	6.6
1	2.2	8.8	2.2	.0	12	1.1	12.1
0	1.1	27.5	2.2	.0	28	3.3	27.5
-1	1.1	19.8	2.2	.0	21	.0	23.1
-2	1.1	7.7	1.1	.0	9	.0	9.9
-3	.0	1.1	.0	.0	1	.0	1.1
-4	.0	1.1	.0	.0	1	.0	1.1
-5	2.2	1.1	.0	.0	3	.0	3.3
TOTAL	7		19			4	87
		64		1	91		
PCT	7.7	70.3	20.9	1.1	100.0	4.4	95.6

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

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.3	.0	.0	.0	.0	2.3
1-2	.0	6.1	.0	.0	.0	.0	6.1
3-4	.0	.0	4.5	.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	8.3	4.5	.0	.0	.0	12.9

SE

HGT	1-9	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.8	.0	.0	.0	.0	3.8
1-2	.0	22.0	12.1	.0	.0	.0	34.1
3-4	.0	.8	7.6	.0	.0	.0	8.3
5-6	.0	.0	7.6	.0	.0	.0	7.6
7	.0	.0	3.0	.0	.0	.0	3.0
8-9	.0	.0	3.0	.0	.0	.0	3.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	26.5	33.3	.0	.0	.0	59.8

PERIOD: (OVER-ALL) 1963-1969

SEPTEMBER

TABLE 18 (CONT)

AREA 0012 SOUTHEAST JAVA
8.95 114.4E

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	5.3	.0	.0	.0	.0	5.3
3-4	.0	8.3	3.0	.0	.0	.0	11.4
5-6	.0	3.0	4.5	.0	.0	.0	7.6
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	16.7	7.6	.0	.0	.0	24.2

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	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	3.0	.0	.0	.0	.0	3.0

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	6.1	.0	.0	.0	.0	6.1	
1-2	.0	36.4	12.1	.0	.0	.0	48.5	
3-4	.0	9.1	15.2	.0	.0	.0	24.2	
5-6	.0	3.0	12.1	.0	.0	[illegible]	15.2	
7	.0	.0	3.0	.0	.0	.0	3.0	
8-9	.0	.0	3.0	.0	[illegible]	.0	3.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	54.5	45.5	.0	.0	.0	100.0	33

PERIOD: (OVER-ALL) 1950-1969

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	7.5	13.2	13.2	5.7	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	3
6-7	.0	1.9	7.5	.0	9.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	5
8-9	.0	.0	7.5	9.4	9.4	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	6
10-11	.0	.0	.0	1.9	1.9	1.9	.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	.0	1.9	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
TOTAL	4	9	15	9	14	1	0	0	1	0	0	0	0	0	0	0	0	0	0	53	4
PCT	7.5	17.0	28.3	17.0	26.4	1.9	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1872-1969
(OVER-ALL) 1856-1969

AREA 0012 SOUTHEAST JAVA
8.0S 114.5E

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	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	50.0	.0	50.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	97.0
SE	2.0	.8	.0	.0	.0	.0	.0	2.8	.0	[illegible]	.0	.0	2.0	.0	92.8
S	1.5	2.9	.0	.0	.0	.0	.0	4.4	.0	.0	.0	.0	3.4	.0	92.2
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.2	.0	93.8
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	1.3	1.3	.0	.0	.0	.0	.0	2.6	.0	1.3	.0	.0	3.2	.0	92.9
TOT OBS:	156														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER 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	.0	2.0	.0	.0	.0	.0	.0	2.0	.0	.0	.0	.0	8.0	.0	90.0
06E09	.0	3.3	.0	.0	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	96.7
12E15	2.1	2.1	.0	.0	.0	.0	.0	4.3	.0	2.1	.0	.0	.0	.0	93.6
18E21	2.6	.0	.0	.0	.0	.0	.0	2.6	.0	5.3	2.6	.0	2.6	.0	86.8
TOT PCT	1.2	1.8	.0	.0	.0	.0	.0	3.0	.0	1.8	.6	.0	3.0	.0	91.5
TOT OBS:	165														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.0	.3	.0	.0	.0	.0		.3	5.0	.0	.0	.0	.8	.0	.0	.0	1.2
NE	.0	.9	.0	.0	.0	.0		.9	5.6	4.9	.0	.0	.8	.0	.0	.0	.0
E	1.3	13.3	4.0	.1	.0	.0		18.7	8.4	26.1	25.2	13.2	16.8	12.9	9.6	8.3	21.2
SE	2.4	28.4	12.3	.6	.0	.0		43.7	9.4	38.5	40.5	47.4	46.7	49.7	52.7	44.0	36.5
S	2.9	16.8	4.7	.0	.2	.0		24.6	8.0	20.3	23.7	31.6	26.6	28.9	26.0	33.3	19.4
SW	1.4	5.3	1.1	.0	.0	.0		7.7	6.9	6.0	4.9	7.9	8.2	6.5	6.2	4.8	16.5
W	.4	1.4	.0	.0	.0	.0		1.7	5.4	2.5	2.2	.0	.0	.8	2.1	4.8	1.8
NW	.2	.4	.0	.0	.0	.0		.5	4.0	.5	.0	.0	.0	1.1	.7	.0	1.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0	1.1	3.5	.0	.0	.0	2.7	4.8	2.4
TOT OBS	57	368	122	4	1	0	552		8.4	91	113	19	61	89	73	21	85
TOT PCT	10.3	66.7	22.1	.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	.3	.0	.0	.0	.0		.3	5.0	.0	.6	.0	.9
NE	.8	.1	.0	.0	.0		.9	5.6	2.2	.6	.0	.0
E	6.7	11.5	.5	.0	.0		18.7	8.4	25.6	15.9	11.4	18.6
SE	12.1	28.3	3.1	.2	.0		43.7	9.4	39.6	46.9	51.1	38.0
S	10.1	13.4	.9	.2	.0		24.6	8.0	22.2	27.8	27.6	22.2
SW	4.2	3.4	.2	.0	.0		7.7	6.9	5.4	8.1	6.3	14.2
W	1.1	.6	.0	.0	.0		1.7	5.4	2.3	.0	1.4	2.4
NW	.5	.0	.0	.0	.0		.5	4.0	.2	.0	.9	.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.8						1.8	.0	2.5	.0	1.2	2.8
TOT OBS	208	316	26	2	0	552		8.4	204	80	162	106
TOT PCT	37.7	57.2	4.7	.4	.0		100.0		100.0	100.0	100.0	100.0

OCTOBER

PERIOD: (PRIMARY) 1872-1969
(OVER-ALL) 1856-1969

AREA 0012 SOUTHEAST JAVA
8.9S 114.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
				WIND SPEED (KNOTS)						
00603	2.5	9.8	64.7	22.5	.0	.5	.0	8.1	100.0	204
06609	.0	3.8	71.3	25.0	.0	.0	.0	8.8	100.0	80
12615	1.2	9.9	67.9	19.8	1.2	.0	.0	8.5	100.0	162
18621	2.8	7.5	65.1	22.6	1.9	.0	.0	8.4	100.0	106
TOT	10	47	368	122	4	1	0	8.4		552
PCT	1.8	8.5	66.7	22.1	.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	.0	.0	.0	.0		.0
NE	.0	1.3	.0	.0		3.0
E	3.9	2.6	4.2	1.3		3.9
SE	14.0	8.8	13.3	2.9		3.7
S	15.9	15.3	3.2	1.0		2.6
SW	1.2	1.9	1.6	.0		3.1
W	2.3	.0	2.3	.0		3.1
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	2.6	.0	.0	.0		1.0
TOT OBS	31	23	19	4	77	3.2
TOT PCT	40.3	29.9	24.7	5.2	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	.0	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.0	
SE	.0	.0	.0	1.6	3.9	1.3	.0	.0	1.3	.0	30.5	
S	.0	.0	.0	1.0	1.3	.0	.0	.0	.0	.0	33.1	
SW	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	4.9	
W	.0	.0	.0	.0	2.3	.0	.0	.0	.0	.0	2.3	
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	2.6	
TOT OBS	0	0	0	2	6	1	0	0	1	0	67	77
TOT PCT	.0	.0	.0	2.6	7.8	1.3	.0	.0	1.3	.0	87.0	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.3	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	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
* OR >2000	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
* OR >1000	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
* OR >600	10.1	12.7	12.7	12.7	12.7	12.7	12.7	12.7
* OR >300	10.1	12.7	12.7	12.7	12.7	12.7	12.7	12.7
* OR >150	10.1	12.7	12.7	12.7	12.7	12.7	12.7	12.7
* OR > 0	10.1	12.7	12.7	12.7	12.7	12.7	12.7	12.7
TOTAL	8	10	10	10	10	10	10	10

TOTAL NUMBER OF OBS: 79 PCT FREQ NH <5/8: 87.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
14.8	24.7	24.7	14.8	7.4	3.7	3.7	3.7	2.5 .0	81

PERIOD: (PRIMARY) 1872-1969
(OVER-ALL) 1856-1969

AREA 0012 SOUTHEAST JAVA
8.9S 114.5E

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	.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	.6	.4	.0	.0	.0	.0	2.6	
	TOT %	.0	.6	.0	.6	.6	.4	.0	.0	.0	.0	2.6	
2<5	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	
5<10	PCP	.0	.0	.0	1.1	.8	.0	.0	.0	.0	.0	1.9	
	NO PCP	.0	.0	3.4	12.2	10.6	7.2	.0	.0	.0	.6	34.0	
	TOT %	.0	.0	3.4	13.3	11.4	7.2	.0	.0	.0	.6	35.9	
10+	PCP	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.6	
	NO PCP	.0	.6	6.7	26.0	20.2	2.4	2.2	.6	.0	1.3	60.3	
	TOT %	.0	.6	6.7	26.0	20.8	2.6	2.2	.6	.0	1.3	60.9	
	TOT OBS												156
	TOT PCT	.0	1.3	10.7	39.9	32.9	10.4	2.2	.6	.0	1.9	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.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	.4	.0	.4	.4	.4	.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	.4	.0	.4	.4	.4	.0	.0	.0	.0	1.6	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.4	.0	.0	.0	.0	.0	.0		.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.4	
5<10	0-3	.0	.0	.0	.2	2.9	.9	.0	.0	.0	.8	4.7	
	4-10	.0	.0	1.6	4.8	3.6	3.7	.0	.0	.0		13.8	
	11-21	.0	.0	.5	3.0	1.1	.2	.0	.0	.0		4.7	
	22+	.0	.0	.0	.4	.0	.0	.0	.0	.0		.4	
	TOT %	.0	.0	2.1	8.4	7.6	4.8	.0	.0	.0	.8	23.6	
10+	0-3	.0	.0	.8	3.0	2.0	1.4	.4	.4	.0	1.6	9.4	
	4-10	.4	.8	8.9	23.7	16.2	2.6	1.2	.2	.0		53.9	
	11-21	.0	.0	1.0	6.6	2.3	1.2	.0	.0	.0		11.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.4	.8	10.4	33.3	20.5	5.1	1.6	.6	.0	1.6	74.4	
	TOT OBS												254
	TOT PCT	.4	1.2	13.1	42.0	28.4	10.3	1.6	.6	.0	2.4	100.0	

OCTOBER

PERIOD: (PRIMARY) 1872-1969
(OVER-ALL) 1856-1969

AREA 0012 SOUTHEAST JAVA
8.9S 114.5E

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	.0	16.7	.0	.0	.0	.0	.0	16.7	83.3	18
06&09	.0	.0	.0	.0	5.3	.0	.0	.0	.0	.0	5.3	94.7	19
12&15	.0	.0	.0	5.0	5.0	.0	.0	.0	5.0	.0	15.0	85.0	20
18&21	.0	.0	.0	4.3	4.3	4.3	.0	.0	.0	.0	13.0	87.0	23
TOT	0	0	0	2	6	1	0	0	1	0	10	70	80
PCT	.0	.0	.0	2.5	7.5	1.3	.0	.0	1.3	.0	12.5	87.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	3.0	.0	28.2	67.9	78
06&09	.0	.0	.0	.0	14.6	85.4	48
12&15	.0	.0	.0	1.2	29.6	69.1	81
18&21	.0	1.8	1.8	.0	23.2	73.2	56
TOT	0	1	4	1	66	191	263
PCT	.0	.4	1.5	.4	25.1	72.6	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	.0	16.7	83.3	18
06&09	.0	.0	.0	5.3	94.7	19
12&15	.0	.0	5.0	10.0	85.0	20
18&21	.0	.0	4.5	9.1	86.4	22
TOT	0	0	2	8	69	79
PCT	.0	.0	2.5	10.1	87.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.8	.0	.0	.0	1	.8
85/89	.0	.0	.0	.8	2.5	3.3	3.3	.0	12	9.8
80/84	.0	.0	.0	.0	.8	23.8	31.1	4.9	74	60.7
75/79	.0	.0	.0	.0	.0	5.7	18.0	4.9	35	28.7
TOTAL	0	0	0	1	5	40	64	12	122	100.0
PCT	.0	.0	.0	.8	4.1	32.8	52.5	9.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
.0	.0	1.0	3.5	4.5	.8	.0	.0	.0	.0
.0	.8	5.1	29.3	18.0	6.6	.0	.0	.0	.8
.0	.8	3.5	11.7	7.8	1.2	2.9	.0	.0	.8
.0	1.6	10.5	44.5	30.3	8.6	2.9	.0	.0	1.6

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	90	88	87	81	78	75	75	81.7	205
06&09	91	90	87	82	79	77	77	82.6	80
12&15	90	89	84	80	77	76	76	80.6	164
18&21	87	84	83	80	76	75	75	79.7	109
TOT	91	89	86	81	77	75	75	81.1	558

TABLE 16

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	2.6	39.5	55.3	2.6	80	38
06&09	.0	4.2	12.5	41.7	41.7	.0	77	24
12&15	.0	.0	.0	29.7	59.5	10.8	83	37
18&21	.0	.0	3.1	25.0	50.0	21.9	84	32
TOT	0	1	5	44	69	12	81	131

OCTOBER

PERIOD: (PRIMARY) 1872-1969
(OVER-ALL) 1856-1969

AREA 0012 SOUTHEAST JAVA
8.9S 114.5E

TABLE 17

PCT 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	.8	.0	1	.0	.8
7/8	.0	.0	.0	.0	2.4	3	.0	2.4
6	.0	.0	.0	.0	1.6	2	.0	1.6
5	.0	.0	.8	2.4	.8	5	.0	4.0
4	.0	.8	.8	1.6	.0	4	.0	3.2
3	.0	.0	2.4	.8	.0	4	.0	3.2
2	.0	.8	8.0	.8	.0	12	.0	9.6
1	.0	1.6	6.4	.8	.0	11	.0	8.8
0	.0	10.4	12.8	.8	.0	30	.0	24.0
-1	.0	9.6	4.8	.0	.0	18	.0	14.4
-2	.0	7.2	8.8	.0	.0	20	.0	16.0
-3	.0	1.6	2.4	.0	.0	5	.0	4.0
-4	.8	3.2	.8	.0	.0	6	.0	4.8
-5	.8	.8	.0	.0	.0	2	.0	1.6
-6	.0	1.6	.0	.0	.0	2	.0	1.6
TOTAL	2		60		6		0	125
		47		10		125		
PCT	1.6	37.6	48.0	8.0	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	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.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	2.2	.0	.0	.0	.0	2.2
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.2	.0	.0	.0	.0	2.2

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	2.2	.0	.0	.0	.0	2.2
3-4	.0	2.2	3.8	.0	.0	.0	6.0
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	6.0	6.0	.0	.0	.0	12.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.2	12.0	.0	.0	.0	.0	14.1
1-2	2.2	9.8	.0	.0	.0	.0	12.0
3-4	.0	2.7	5.4	.0	.0	.0	8.2
5-6	.0	.0	4.9	.0	.0	.0	4.9
7	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.3	24.5	10.9	.0	.0	.0	39.7

PERIOD: (OVER-ALL) 1963-1969

OCTOBER

AREA 0012 SOUTHEAST JAVA
8.9S 114.5E

TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.6	.0	.0	.0	.0	1.6
1-2	.0	16.3	.0	.0	.0	.0	16.3
3-4	.0	6.0	3.8	.0	.0	.0	9.8
5-6	.0	4.3	1.6	.0	.0	.0	6.0
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
41-49	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	28.3	7.1	.0	.0	.0	35.3

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	2.2	.5	2.2	.0	.0	.0	4.9
3-4	.0	2.2	.0	.0	.0	.0	2.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-49	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	2.2	.0	.0	.0	7.1

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.2	.0	.0	.0	.0	.0	2.2
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	2.2	1.6	.0	.0	.0	.0	3.8

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	.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	4.3	17.4	.0	.0	.0	.0	21.7	
1-2	4.3	30.4	2.2	.0	.0	.0	37.0	
3-4	.0	13.0	13.0	.0	.0	.0	26.1	
5-6	.0	4.3	8.7	.0	.0	.0	13.0	
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	
TOT PCT	8.7	65.2	26.1	.0	.0	.0	100.0	46

PERIOD: (OVER-ALL) 1950-1969

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.1	12.5	7.8	4.7	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	3
6-7	.0	4.7	18.8	6.3	1.6	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	4
8-9	.0	.0	1.6	4.7	.0	1.6	.0	6.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	8
10-11	.0	.0	1.6	7.8	4.7	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	6
12-13	.0	.0	.0	.0	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	11
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	1.6	.0	1.6	1.6	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	4
TOTAL	3	11	20	16	6	2	1	5	0	0	0	0	0	0	0	0	0	0	0	64	4
PCT	4.7	17.2	31.3	25.0	9.4	3.1	1.6	7.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1869-1970
(OVER-ALL) 1859-1970

AREA 0012 SOUTHEAST JAVA
8.9S 114.2E

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	.0	.0	.0	.0	.0	.0	.0	.0	9.5	.0	.0	.0		.0	90.5
E	8.2	.0	.0	.0	.0	.0	.0	8.2	.0	12.2	.0	.0	.0		.0	79.6
SE	.0	.7	.0	.0	.0	.0	.0	.7	2.7	2.7	.0	.0	4.1		.0	89.8
S	.0	1.6	.0	.0	.0	.0	.0	1.6	.0	2.1	.0	.0	5.3		.0	91.0
SW	4.7	.0	.0	.0	.0	.0	.0	4.7	2.3	.0	2.3	.0	4.7		.0	86.0
W	.0	11.0	.0	.0	.0	.0	.0	11.0	13.7	.0	2.7	.0	2.7		.0	69.9
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.1		.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	1.4	2.0	.0	.0	.0	.0	.0	3.4	2.7	2.7	.7	.0	4.1		.0	86.5
TOT OBS:	148															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER 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	2.4	.0	.0	.0	.0	.0	2.4	4.8	.0	.0	.0	9.5		.0	83.3
06&09	.0	3.6	.0	.0	.0	.0	.0	3.6	.0	.0	.0	.0	3.6		.0	92.9
12&15	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	2.1	.0	4.2		.0	89.6
18&21	5.6	2.8	.0	.0	.0	.0	.0	8.3	5.6	5.6	.0	.0	.0		.0	80.6
TOT PCT	1.3	1.9	.0	.0	.0	.0	.0	3.2	2.6	2.6	.6	.0	4.5		.0	86.4
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	.9	.4	.1	.0	.0	.0		1.4	3.7	2.5	2.2	.0	1.7	.9	.0	.0	1.1
NE	1.5	1.7	.1	.0	.0	.0		3.4	4.4	4.1	7.0	.0	2.3	2.3	1.8	4.8	1.1
E	1.0	6.4	1.8	.2	.0	.0		9.4	8.0	11.6	12.5	.0	7.5	7.3	7.1	7.1	10.8
SE	2.1	19.2	7.0	.3	.0	.0		28.6	8.6	25.6	28.3	33.3	29.9	27.5	33.9	36.9	24.4
S	3.6	17.9	4.9	.2	.0	.0		26.6	7.7	28.1	19.1	33.3	29.9	32.8	29.2	22.6	23.3
SW	1.6	8.7	2.5	.0	.0	.0		12.8	7.8	5.0	12.1	12.5	12.6	16.3	13.1	13.1	16.5
W	1.0	5.2	1.9	.2	.0	.0		8.3	8.8	9.4	6.3	20.8	9.2	8.3	7.1	15.5	7.4
NW	1.2	2.3	.5	.1	.0	.0		4.1	6.2	7.5	5.9	.0	.0	1.8	3.0	.0	7.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.5							5.5	.0	6.3	6.6	.0	6.9	2.8	4.8	.0	8.0
TOT OBS	114	382	115	6	0	0	617		7.4	80	136	12	87	109	84	21	88
TOT PCT	18.5	61.9	18.6	1.0	.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	1.2	.2	.0	.0	.0		1.4	3.7	2.3	1.5	.5	.9
NE	2.8	.6	.0	.0	.0		3.4	4.4	5.9	2.0	2.1	1.8
E	4.4	4.5	.5	.0	.0		9.4	8.0	12.2	6.6	7.3	10.1
SE	11.3	15.3	2.0	.0	.0		28.6	8.6	27.3	30.3	30.3	26.8
S	12.1	13.1	1.4	.0	.0		26.6	7.7	22.5	30.3	31.2	23.2
SW	5.8	6.6	.6	.0	.0		12.8	7.8	9.5	12.6	14.9	15.8
W	2.8	4.9	.6	.0	.0		8.3	8.8	7.4	10.6	7.8	8.9
NW	2.9	.9	.2	.0	.0		4.1	6.2	6.5	.0	2.3	6.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.5						5.5	.0	6.5	6.1	3.6	6.4
TOT OBS	300	284	33	0	0	617		7.4	216	99	193	109
TOT PCT	48.6	46.0	5.3	.0	.0		100.0		100.0	100.0	100.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1869-1970
(OVER-ALL) 1855-1970

AREA 0012 SOUTHEAST JAVA
8.9S 114.2E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00603	6.5	18.1	55.6	18.5	1.4	.0	.0	7.0	100.0	216
06609	6.1	6.1	65.7	22.2	.0	.0	.0	8.1	100.0	99
12615	3.6	10.9	65.8	19.2	.5	.0	.0	7.8	100.0	193
18621	6.4	12.8	64.2	14.7	1.8	.0	.0	7.1	100.0	109
TOT	34	80	382	115	6	0	0	7.4		617
PCT	5.5	13.0	61.9	18.6	1.0	.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	1.5	.0		5.0
NE	.0	.0	1.5	1.9		7.1
E	.0	1.5	.8	1.1		5.5
SE	11.4	9.5	6.8	3.0		3.7
S	12.9	7.2	10.2	1.5		3.5
SW	8.7	3.0	3.4	.0		3.0
W	3.4	4.5	3.0	3.0		4.6
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	24	17	18	7	66	3.8
TOT PCT	36.4	25.8	27.3	10.6	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	1.5	
NE	.0	.0	.0	.4	.0	.0	.0	1.5	.0	.0	1.5	
E	.0	.0	.0	1.1	.0	.0	.0	.8	.0	.0	1.5	
SE	.0	.0	.0	.0	1.5	1.5	1.5	.8	.0	.0	25.4	
S	.0	.0	.0	1.5	.0	.0	1.5	.0	.0	.0	28.8	
SW	.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0	13.6	
W	.0	.0	.0	1.5	3.0	.0	.0	.0	.0	.0	9.5	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	0	0	0	3	3	2	2	2	0	0	54	66
TOT PCT	.0	.0	.0	4.5	4.5	3.0	3.0	3.0	.0	.0	81.8	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >500YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	1.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0
* OR >3500	4.5	6.0	6.0	6.0	6.0	6.0	6.0	6.0
* OR >2000	7.5	9.0	9.0	9.0	9.0	9.0	9.0	9.0
* OR >1000	10.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4
* OR >600	14.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9
* OR >300	14.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9
* OR >150	14.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9
* OR > 0	14.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9
TOTAL	10	12	12	12	12	12	12	12

TOTAL NUMBER OF OBS: 67 PCT FREQ NH <5/8: 82.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
5.6	20.8	29.2	12.5	13.9	6.9	4.2	.0	6.9	.0	72

NOVEMBER

PERIOD: (PRIMARY) 1869-1970
(OVER-ALL) 1859-1970

AREA 0012 SOUTHEAST JAVA
8.9S 114.2E

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	1.0	1.0	.7	.3	.3	.0	.0	3.4	
	TOT %	.0	.0	.0	1.0	1.0	.7	.3	.3	.0	.0	3.4	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	PCP	.0	.0	.7	.0	.0	.7	.7	.0	.0	.0	2.0	
	NO PCP	.0	3.0	5.1	8.4	13.2	4.7	2.0	2.7	.0	.7	39.9	
	TOT %	.0	3.0	5.7	8.4	13.2	5.4	2.7	2.7	.0	.7	41.9	
10+	PCP	.0	.0	.0	.2	.5	.0	.7	.0	.0	.0	1.4	
	NO PCP	1.0	.5	2.5	15.2	17.1	8.4	8.6	.0	.0	.0	53.4	
	TOT %	1.0	.5	2.5	15.4	17.6	8.4	9.3	.0	.0	.0	54.7	
	TOT OBS												148
	TOT PCT	1.0	3.5	8.3	24.8	31.8	14.5	12.3	3.0	.0	.7	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.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	.4	.0	.0	.0	.4	.0	.0	.0	.8	1.6	
	4-10	.0	.0	.0	.6	.6	.0	.2	.2	.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	.4	.0	.6	.6	.4	.2	.2	.0	.8	3.2	
2<5	0-3	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.4	
	4-10	.0	.0	.0	.4	.4	.0	.0	.0	.0		.8	
	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	.0	.8	.4	.2	.2	.0	.0	.0	1.6	
5<10	0-3	.0	1.4	.2	.0	1.2	.4	.2	.6	.0	.4	4.4	
	4-10	.0	.8	3.4	5.8	5.6	3.0	1.2	.2	.0		19.9	
	11-21	.0	.0	.6	1.4	1.2	.0	.4	.8	.0		4.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	2.2	4.2	7.2	8.0	3.4	1.8	1.6	.0	.4	28.7	
10+	0-3	.8	.0	.4	2.2	2.2	1.2	.8	.4	.0	2.4	10.4	
	4-10	.8	.9	4.9	15.8	13.5	5.5	6.0	.8	.0		48.2	
	11-21	.0	.0	.2	3.6	1.4	1.3	1.5	.0	.0		8.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	1.6	.9	5.5	21.6	17.1	8.0	8.3	1.2	.0	2.4	66.5	
	TOT OBS												251
	TOT PCT	1.6	3.5	9.7	30.2	26.1	12.0	10.5	3.0	.0	3.6	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1869-1970
(OVER-ALL) 1855-1970

AREA 0012 SOUTHEAST JAVA
8.9S 114.2E

TABLE 10

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

HOUR (GMT)	000 149	150 299	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	5.9	.0	5.9	.0	.0	.0	23.5	76.5	17
06E09	.0	.0	.0	7.1	7.1	7.1	.0	.0	.0	.0	21.4	78.6	14
12E15	.0	.0	.0	.0	.0	5.6	.0	.0	.0	.0	5.6	94.4	18
18E21	.0	.0	.0	.0	4.5	.0	4.5	9.1	.0	.0	18.2	81.8	22
TOT	0	0	0	3	3	2	2	2	0	0	12	59	71
PCT	.0	.0	.0	4.2	4.2	2.8	2.8	2.8	.0	.0	16.9	83.1	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	5.9	2.9	30.9	60.3	68
06E09	.0	.0	4.4	.0	22.2	73.3	45
12E15	.0	.0	3.4	.0	28.1	68.5	89
18E21	.0	.0	.0	3.6	34.5	61.8	55
TOT	0	0	9	4	75	169	257
PCT	.0	.0	3.5	1.6	29.2	65.8	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	13.3	13.3	73.3	15
06E09	.0	.0	7.7	15.4	76.9	13
12E15	.0	.0	.0	5.6	94.4	18
18E21	.0	.0	.0	19.0	81.0	21
TOT	0	0	3	9	55	67
PCT	.0	.0	4.5	13.4	82.1	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	.8	.0	.0	.0	1	.8
85/89	.0	.0	.0	.0	.8	6.7	4.2	.0	14	11.8
80/84	.0	.0	.0	.0	2.5	34.5	42.0	5.9	101	84.9
75/79	.0	.0	.0	.0	.0	.8	.8	.8	3	2.5
TOTAL	0	0	0	0	5	50	56	8	119	100.0
PCT	.0	.0	.0	.0	4.2	42.0	47.1	6.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0
	.8	.0	1.3	3.8	2.5	1.7	.4	.4	.0	.8
	.0	.2	5.3	22.1	27.7	13.0	14.1	2.5	.0	.0
	.0	.0	.8	.0	.8	.0	.8	.0	.0	.0
	.8	.2	7.4	26.7	31.1	14.7	15.3	2.9	.0	.8

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	92	91	88	84	80	77	76	83.8	208
06E09	91	90	87	83	80	72	72	83.8	98
12E15	87	85	84	82	79	77	77	81.9	185
18E21	85	84	83	81	77	76	76	80.9	104
TOT	92	90	87	83	79	77	72	82.7	595

TABLE 16

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	43.7	45.7	8.6	80	35
06E09	.0	.0	16.7	50.0	33.3	.0	77	24
12E15	.0	.0	.0	41.7	55.6	2.8	80	36
18E21	.0	.0	3.3	30.7	46.7	13.3	82	30
TOT	0	0	5	54	58	8	80	125

NOVEMBER

PERIOD: (PRIMARY) 1869-1970
(OVER-ALL) 1855-1970

AREA 0012 SOUTHEAST JAVA
8.9S 114.2E

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	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.0	.0	.9	1	.0	.9
6	.0	.0	.0	.0	.9	.0	1	.0	.9
4	.0	.0	.0	.9	1.9	.0	3	.0	2.8
3	.0	.0	.0	5.7	2.8	.0	9	.0	8.5
2	.0	.0	.9	5.7	.9	.0	8	.0	7.5
1	.0	.0	.0	7.5	.0	.0	8	.0	7.5
0	.0	.0	3.8	30.2	.9	.0	37	.9	34.0
-1	.0	.0	2.8	10.4	.0	.0	14	.0	13.2
-2	.0	.0	1.9	12.3	.0	.0	15	.0	14.2
-3	.0	.0	.0	1.9	.0	.0	2	.0	1.9
-4	.0	.0	.9	1.9	.0	.0	3	.0	2.8
-5	.0	.0	.9	1.9	.0	.0	3	.0	2.8
-6	.0	.9	.0	.0	.0	.0	1	.0	.9
-7/-8	.9	.0	.0	.0	.0	.0	1	.0	.9
TOTAL	1		12		8			1	105
		1		83		1	106		
PCT	.9	.9	11.3	78.3	7.5	.9	100.0	.9	99.1

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

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

N

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

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	4.9	.0	.0	.0	.0	4.9
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	4.9	.0	.0	.0	.0	4.9

SE

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	13.2	5.6	.0	.0	.0	18.8
3-4	.0	.0	11.1	.0	.0	.0	11.1
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	16.0	16.7	.0	.0	.0	32.6

PERIOD: (OVER-ALL) 1963-1970

NOVEMBER

TABLE 18 (CONT)

AREA 0012 SOUTHEAST JAVA
8.95 114.2E

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.8	.0	.0	.0	.0	.0	2.8
1-2	.0	20.1	.0	.0	.0	.0	20.1
3-4	.0	5.6	.0	.0	.0	.0	5.6
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	2.8	25.7	.0	.0	.0	.0	28.5

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.8	2.8	.0	.0	.0	.0	5.6
1-2	.0	5.6	2.8	.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	2.8	8.3	2.8	.0	.0	.0	13.9

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	11.1	2.8	.0	.0	.0	13.9
3-4	.0	.0	5.6	.0	.0	.0	5.6
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	11.1	8.3	.0	.0	.0	19.4

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	.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	5.6	5.6	.0	.0	.0	.0	11.1	
1-2	.0	50.0	11.1	.0	.0	.0	61.1	
3-4	.0	11.1	16.7	.0	.0	.0	27.8	
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	5.6	66.7	27.8	.0	.0	.0	100.0	36

PERIOD: (OVER-ALL) 1953-1970

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.9	9.3	14.8	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	3
6-7	.0	1.9	7.4	9.3	5.6	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	5
8-9	.0	.0	3.7	5.6	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	5
10-11	.0	.0	1.9	11.1	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	5
12-13	.0	.0	.0	.0	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	8
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	.0	.0	1.9	5.6	1.9	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	6
TOTAL	1	6	16	20	4	5	1	1	0	0	0	0	0	0	0	0	0	0	0	54	5
PCT	1.9	11.1	29.6	37.0	7.4	9.3	1.9	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1869-1971
(OVER-ALL) 1854-1971

AREA 0012 SOUTHEAST JAVA
9.9S 114.6E

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	22.2	.0	.0	22.2		.0	55.6
NE	19.4	12.9	.0	.0	.0	.0	.0	32.3	.0	19.4	.0	.0	.0		.0	67.7
E	16.7	6.3	.0	.0	.0	.0	.0	22.9	.0	29.2	.0	.0	.0		.0	52.1
SE	10.1	6.3	.0	.0	.0	.0	.0	16.5	.0	2.5	.0	.0	.0		.0	83.5
S	2.7	5.3	.0	.0	.0	.0	.0	8.0	5.3	8.0	.0	.0	.0		.0	81.3
SW	6.7	17.8	.0	.0	.0	.0	.0	24.4	.0	4.4	.0	.0	.0		.0	71.1
W	6.5	15.2	.0	.0	.0	.0	.0	21.7	.0	4.3	.0	.0	.0		.0	73.9
NW	.0	5.7	.0	.0	.0	.0	.0	5.7	.0	.0	11.4	.0	.0		.0	82.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	8.3	.0	.0	.0	.0	8.3	.0	.0	.0	.0	.0		.0	91.7
TOT PCT	7.0	9.3	.8	.0	.0	.0	.0	17.1	.8	7.8	.8	.0	.8		.0	75.2
TOT OBS:	129															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	4.4	6.7	.0	.0	.0	.0	.0	11.1	.0	.0	4.4	.0	2.2		.0	82.2
06609	3.0	6.1	3.0	.0	.0	.0	.0	12.1	3.0	.0	.0	.0	.0		.0	84.8
12615	12.8	15.4	.0	.0	.0	.0	.0	28.2	.0	15.4	.0	.0	.0		.0	64.1
18621	4.3	4.3	.0	.0	.0	.0	.0	8.7	.0	21.7	.0	.0	.0		.0	69.6
TOT PCT	6.4	8.6	.7	.0	.0	.0	.0	15.7	.7	7.0	1.4	.0	.7		.0	75.7
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	.3	.8	.0	.0	.0	.0		1.7	3.8	1.9	1.7	.0	.0	2.8	.0	14.6	.9
NE	.8	2.0	.2	.0	.0	.0		3.1	5.0	1.9	3.7	8.3	4.3	2.0	3.[illegible]	.0	1.9
E	1.9	1.8	.7	.0	.0	.0		4.4	5.6	4.8	3.7	16.7	3.2	4.4	3.8	14.6	1.9
SE	2.4	7.3	1.5	.0	.0	.0		11.2	6.8	13.5	13.6	10.4	12.8	9.3	8.7	18.8	5.6
S	2.9	8.3	1.5	.0	.0	.0		12.7	6.7	1.0	9.9	14.6	19.1	21.0	15.4	8.3	13.0
SW	1.7	15.4	4.4	.8	.5	.0		22.8	10.0	24.0	16.1	.0	28.7	30.6	32.7	8.3	21.3
W	1.8	11.8	10.5	2.2	.6	.2		27.2	12.5	31.7	26.4	8.3	21.3	22.6	24.0	20.8	43.5
NW	1.2	3.8	2.4	.6	.8	.2		9.2	13.6	13.5	12.4	.0	6.4	4.0	7.7	6.3	10.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.8							7.8	.0	7.7	12.4	41.7	4.3	3.2	3.8	8.3	1.9
TOT OBS	88	211	88	15	8	2	412		9.0	52	121	12	47	62	52	12	54
TOT PCT	21.4	51.2	21.4	3.6	1.9	.5		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.[illegible]	.2	.0	.0	.0		1.7	3.8	1.7	.0	1.5	3.4
NE	2.6	.5	.0	.0	.0		3.1	5.0	3.2	3.1	2.9	1.5
E	3.2	1.2	.0	.0	.0		4.4	5.6	4.0	5.9	4.2	4.2
SE	6.5	4.2	.5	.0	.0		11.2	6.8	13.6	12.3	9.0	8.0
S	7.3	4.9	.5	.0	.0		12.7	6.7	7.2	18.2	18.4	12.1
SW	6.9	12.3	3.2	.4	.1		22.8	10.0	18.5	22.9	31.6	18.9
W	6.3	13.8	5.8	.6	.6		27.2	12.5	28.0	18.6	23.2	39.4
NW	3.8	3.2	.5	1.2	.5		9.2	13.6	12.7	5.1	5.7	9.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	7.8						7.8	.0	11.0	11.9	3.5	3.0
TOT OBS	189	166	43	9	5	412		9.0	173	99	114	66
TOT PCT	45.9	40.3	10.4	2.2	1.2		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1869-1971
(OVER-ALL) 1854-1971

AREA 0012 SOUTHEAST JAVA
9.95 114.6E

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
00603	11.0	14.5	50.9	16.8	3.5	3.5	.0	8.5	100.0	173
06609	11.9	5.1	55.9	25.4	1.7	.0	.0	8.4	100.0	59
12615	3.5	10.5	59.6	19.3	4.4	.9	1.8	9.8	100.0	114
18621	3.0	24.2	33.3	33.3	4.5	1.5	.0	9.4	100.0	66
TOT	32	56	211	88	15	8	2	9.0		412
PCT	7.8	13.6	51.2	21.4	3.6	1.9	.5		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	2.2	6.0	.0		5.2
NE	2.2	2.2	4.3	.0		4.7
E	1.6	6.5	4.3	3.8		5.1
SE	2.7	2.7	8.7	.5		5.0
S	.0	6.0	.0	.0		3.3
SW	.0	.5	7.1	.0		6.0
W	2.2	9.2	1.6	2.2		3.8
NW	.0	1.1	2.7	.0		5.2
VAR	.0	.0	.0	.0		.0
CALM	6.5	2.2	6.5	4.3		4.5
TOT OBS	7	15	19	5	46	4.7
TOT PCT	15.2	32.6	41.3	10.9	100.0	

TABLE 6

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

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.2	
NE	.0	.0	.0	.0	.0	2.2	.0	.0	.0	.0	6.5	
E	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.7	
SE	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.1	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	
SW	.0	.0	.0	.0	.0	4.3	.0	.0	.0	.0	3.3	
W	.0	.0	.0	.0	2.2	.0	.0	.0	.0	.0	13.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	17.4	
TOT OBS	1	0	0	1	1	3	0	0	0	0	40	46
TOT PCT	2.2	.0	.0	2.2	2.2	6.5	.0	.0	.0	.0	87.0	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >500YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >2000	4.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
* OR >1000	6.1	10.2	10.2	10.2	10.2	10.2	10.2	10.2
* OR >600	8.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
* OR >300	8.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
* OR >150	8.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
* OR > 0	8.2	12.2	12.2	12.2	12.2	14.3	14.3	14.3
TOTAL	4	6	6	6	6	7	7	7

TOTAL NUMBER OF OBS: 49 PCT FREQ NH <5/8: 85.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
9.0	18.2	42.4	18.2	7.6	.0	4.5	1.5	3.0	1.5	66

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PERIOD: (PRIMARY) 1869-1971
(OVER-ALL) 1854-1971

AREA 0012 SOUTHEAST JAVA
9.5S 114.0E

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	.6	.2	.0	.0	.0	.0	.0	.0	.8	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.6	.2	.0	.0	.0	.0	.0	.0	.8	
1/2<1	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	
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	.4	.4	.0	.0	.0	.8	
	NO PCP	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.8	
	TOT %	.0	.0	.0	.0	.8	.4	.4	.0	.0	.0	1.6	
5<10	PCP	.0	1.2	.8	1.9	.8	3.9	2.7	.4	.0	.8	12.4	
	NO PCP	.0	.8	1.9	7.8	3.5	4.9	3.1	2.7	.0	.0	24.0	
	TOT %	.0	1.9	2.7	9.7	4.3	8.1	5.8	3.1	.0	.8	36.4	
10+	PCP	.0	.8	.8	.4	.4	.0	.8	.0	.0	.0	3.1	
	NO PCP	3.5	3.3	5.2	5.0	9.1	8.9	10.9	2.9	.0	8.5	57.4	
	TOT %	3.5	4.1	6.0	5.4	9.5	8.9	11.6	2.9	.0	8.5	60.5	
	TOT OBS												129
	TOT PCT	3.5	6.0	9.3	15.3	14.5	17.4	17.8	6.8	.0	9.3	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	.5	.2	.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	.5	.2	.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	.7	.0		.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.7	
1<2	0-3	.0	.4	.4	.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	.4	.4	.0	.0	.0	.0	.0	.0	.0	.7	
2<5	0-3	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.7	
	4-10	.0	.0	.0	.0	.7	.4	.4	.0	.0		1.4	
	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	.7	.0	.7	.4	.4	.0	.0	.0	2.2	
5<10	0-3	.0	.0	1.1	1.1	.0	1.4	.7	.0	.0	.7	5.0	
	4-10	.0	1.8	1.4	7.2	3.2	4.7	2.5	2.9	.0		23.7	
	11-21	.0	.0	.0	.7	.7	.7	.7	.0	.0		2.9	
	22+	.0	.0	.0	.0	.0	.7	1.4	.0	.0		2.2	
	TOT %	.0	1.8	2.5	9.0	4.0	7.6	5.4	2.9	.0	.7	33.8	
10+	0-3	.7	.7	2.7	2.0	2.5	.7	.0	.7	.0	7.9	18.0	
	4-10	2.5	3.1	.7	3.6	6.1	8.5	6.3	1.6	.0		32.4	
	11-21	.0	.0	2.2	.2	1.6	1.6	4.1	.4	.0		10.1	
	22+	.0	.0	.0	.0	.0	.0	1.4	.0	.0		1.4	
	TOT %	3.2	3.8	5.6	5.8	10.3	10.8	11.9	2.7	.0	7.9	61.9	
	TOT OBS												139
	TOT PCT	3.2	5.9	9.7	14.9	14.9	18.7	17.6	6.3	.0	8.6	100.0	

DECEMBER

PERIOD: (PRIMARY) 1869-1971
(OVER-ALL) 1854-1971

AREA 0012 SOUTHEAST JAVA
9.5S 114.6E

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
00&03	.0	.0	.0	5.3	.0	5.3	.0	.0	.0	.0	10.5	89.5	19
06&09	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	21
12&15	7.1	.0	.0	.0	14.3	7.1	.0	.0	.0	.0	28.6	71.4	14
18&21	.0	.0	.0	.0	.0	8.3	.0	.0	.0	.0	8.3	91.7	12
TOT	1	0	0	1	2	3	0	0	0	0	7	59	66
PCT	1.5	.0	.0	1.5	3.0	4.5	.0	.0	.0	.0	10.6	89.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	4.3	.0	2.2	34.8	58.7	46
06&09	.0	.0	.0	.0	25.7	74.3	35
12&15	2.4	.0	2.4	4.8	40.5	50.0	42
18&21	.0	.0	.0	.0	25.9	74.1	27
TOT	1	2	1	3	49	94	150
PCT	.7	1.3	.7	2.0	32.7	62.7	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	7.7	7.7	84.6	13
06&09	.0	.0	.0	.0	100.0	17
12&15	10.0	10.0	10.0	30.0	60.0	10
18&21	.0	.0	.0	11.1	88.9	9
TOT	1	1	2	5	42	49
PCT	2.0	2.0	4.1	10.2	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	7.2	12.0	1.1	.0	14	15.2
80/84	.0	.0	.0	.0	3.3	35.9	27.2	6.5	67	72.8
75/79	.0	.0	.0	.0	.0	1.1	6.5	4.3	11	12.0
TOTAL	0	0	0	0	5	45	32	10	92	100.0
PCT	.0	.0	.0	.0	5.4	48.9	34.8	10.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	5.4	1.1	2.2	2.7	1.6	.0	2.2
	1.9	6.5	7.3	10.3	12.8	7.9	13.3	5.2	.0	7.6
	1.1	.0	1.6	1.6	1.1	3.3	2.2	1.1	.0	.0
	3.0	6.5	9.0	17.4	14.9	13.3	18.2	7.9	.0	9.8

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	94	93	91	84	79	77	77	84.4	174
06&09	92	91	87	84	78	76	76	83.7	58
12&15	87	86	86	82	79	78	78	82.4	108
18&21	89	88	84	82	78	75	75	81.4	63
TOT	94	93	89	83	79	77	75	83.3	403

TABLE 16

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	16.2	40.5	32.4	10.8	78	37
06&09	.0	.0	7.7	73.1	19.2	.0	75	26
12&15	.0	.0	4.3	30.4	47.8	17.4	82	23
18&21	.0	.0	6.3	37.5	43.8	12.5	80	16
TOT	0	0	10	47	35	10	79	102

DECEMBER

PERIOD: (PRIMARY) 1869-1971
(OVER-ALL) 1854-1971

AREA 0012 SOUTHEAST JAVA
9.5S 114.6E

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	77 80	81 84	85 88	TOT	W FOG	WO FOG
6	.0	.0	.9	1	.0	.9
4	.0	.9	.9	2	.0	1.9
3	.0	.9	.0	1	.0	.9
2	.0	2.8	2.8	6	.9	4.7
1	.0	.9	6.5	8	.0	7.5
0	.0	17.8	5.6	25	.9	22.4
-1	.0	14.0	2.8	18	.0	16.8
-2	.0	15.9	.0	17	.0	15.9
-3	2.8	9.3	.0	13	.0	12.1
-4	2.8	7.5	.0	11	.0	10.3
-5	1.9	.9	.0	3	.0	2.8
-6	.9	.9	.0	2	.0	1.9
TOTAL	9		21		2	105
		77		107		
PCT	8.4	72.0	19.6	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	3.0	.0	.0	.0	.0	3.0
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	5.3	.0	.0	.0	.0	5.3

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	9.1	.0	.0	.0	.0	9.1
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.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	.0	.0	.0	.0	9.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	6.1	.0	.0	.0	.0	.0	6.1
1-2	2.3	.0	3.0	.0	.0	.0	5.3
3-4	.0	.0	6.1	.0	.0	.0	6.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	8.3	.0	9.1	.0	.0	.0	17.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	6.1	.0	.0	.0	.0	6.1
1-2	.8	9.1	.0	.0	.0	.0	9.8
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	.8	15.2	.0	.0	.0	.0	15.9

PERIOD: (OVER-ALL) 1963-1971

DECEMBER

TABLE 18 (CONT)

AREA 0012 SOUTHEAST JAVA
9.5S 114.6E

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	3.0	3.0	.0	.0	.0	.0	6.1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	3.0	.0	.0	.0	3.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	3.8	.0	.0	.0	.0	3.8
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
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	3.0	3.0	3.0	.0	.0	.0	9.1	.0	3.8	.0	.0	.0	.0	3.8

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	6.1	6.1	.0	.0	.0	12.1	.0	3.8	.0	.0	.0	.0	3.8	
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	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	8.3	6.1	.0	.0	.0	14.4	.0	3.8	.0	.0	.0	.0	3.8	78.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	34.3	11.4	.0	.0	.0	.0	45.7	
1-2	2.9	28.6	11.4	.0	.0	.0	42.9	
3-4	.0	5.7	5.7	.0	.0	.0	11.4	
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	37.1	45.7	17.1	.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	4.1	16.3	22.4	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	2
6-7	.0	4.1	8.2	2.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	4
8-9	.0	2.0	4.1	10.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	4
10-11	.0	2.0	4.1	.0	2.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	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	10.2	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	1
TOTAL	7	12	20	7	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	49	3
PCT	14.3	24.5	40.8	14.3	4.1	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

ANNUAL

PERIOD: (PRIMARY) 1864-1973
(OVER-ALL) 1854-1973

AREA 0012 SOUTHEAST JAVA
9.0S 114.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.9	1.4	.0	.0	.0	.0	1.4	3.7	.4	8.5	.2	.0	1.9		.0	60.8
NE	9.8	6.6	.0	.0	.0	.0	.0	16.4	.6	8.3	1.0	.0	8.1		.0	70.1
E	5.9	2.9	.0	.0	.0	.0	.0	8.8	1.0	10.6	2.6	.0	1.2		.0	76.8
SE	4.8	3.0	.5	.0	.0	.0	.0	8.3	1.4	3.2	2.4	.0	1.4		.0	85.2
S	1.0	3.1	.0	.0	.0	.0	.0	4.1	1.3	3.8	2.3	.0	3.4		.0	85.4
SW	4.0	2.7	.0	.0	.0	.0	.0	6.7	.2	1.2	.9	.0	.9		.0	90.2
W	3.5	3.3	.0	.0	.0	.0	.0	6.8	1.8	1.4	.5	.0	.3		.0	73.0
NW	4.1	1.1	.0	.0	.0	.0	.0	5.2	*	1.7	1.0	.0	6.9		.0	69.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	2.6	.0	.7	.0	.0	.0	.0	3.3	2.1	2.6	2.1	.0	.0		.0	81.6
TOT PCT	3.5	3.1	.1	.0	.0	.0	.1	6.8	1.2	3.4	2.1	.0	1.9		.0	85.7
TOT OBS:	1863															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER 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	4.1	.0	.0	.0	.0	.0	6.7	1.4	.8	3.2	.0	3.6		.0	84.8
06&09	2.1	2.8	.5	.0	.0	.0	.0	5.4	1.8	.7	2.2	.0	1.3		.0	88.8
12&15	4.5	2.9	.0	.0	.0	.0	.2	7.6	.5	5.0	1.3	.0	1.5		.0	85.7
18&21	4.9	1.9	.2	.0	.0	.0	.3	7.3	.9	9.2	1.8	.0	.7		.0	82.7
TOT PCT	3.5	3.1	.2	.0	.0	.0	.1	6.8	1.1	3.6	2.2	.0	1.9		.0	85.5
TOT OBS:	1972															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	1.0	.2	*	.0	.0		1.9	5.5	2.0	2.2	2.5	.9	1.8	1.4	3.6	2.2
NE	1.0	1.9	.4	*	.0	.0		3.4	6.2	4.3	4.2	3.2	2.6	3.0	2.7	3.0	2.7
E	1.6	11.2	7.8	.7	.1	.0		21.3	8.7	22.8	22.7	23.4	20.9	18.7	20.3	22.7	21.2
SE	2.4	17.2	10.7	.6	*	.0		30.9	8.8	28.4	30.2	31.3	34.0	34.7	30.5	32.3	26.7
S	2.1	8.0	2.2	.1	*	.0		12.4	7.2	10.8	11.2	11.7	14.3	14.2	13.1	11.6	11.8
SW	1.4	5.7	1.9	.2	*	.0		9.2	7.5	7.7	7.2	4.7	10.3	10.6	10.2	6.0	12.2
W	1.3	5.7	3.7	.9	.1	*		11.8	8.0	12.9	11.8	14.4	11.4	10.6	12.0	12.2	12.2
NW	.8	2.4	1.0	.3	.1	*		4.6	7.0	6.8	4.8	3.3	3.0	3.3	4.6	4.9	5.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.5							4.5	.0	4.3	5.6	5.6	2.7	3.1	5.1	3.6	5.3
TOT OBS							7404		8.9	1087	1564	213	954	1301	966	238	1081
TOT PCT	15.7	53.2	27.4	2.8	.4	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.3	.6	*	.0	.0		1.9	5.5	2.2	1.2	1.6	2.3
NE	2.1	1.2	*	*	.0		3.4	6.2	4.4	2.8	2.9	2.8
E	6.3	12.0	2.7	.2	.0		21.3	8.7	22.8	21.4	19.4	21.5
SE	9.1	18.4	3.2	.1	.0		30.9	8.8	29.4	33.7	33.0	27.9
S	6.2	5.6	.6	*	.0		12.4	7.2	11.1	13.8	13.8	11.8
SW	4.2	4.2	.8	.1	*		9.2	7.5	7.4	9.3	10.4	11.0
W	3.8	5.5	2.1	.3	.1		11.8	8.0	12.1	11.7	11.2	12.2
NW	2.1	1.8	.4	.2	.1		4.6	7.0	5.5	3.0	3.9	5.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.5						4.5	.0	5.2	3.3	3.9	5.0
TOT OBS						7404		8.9	2651	1167	2267	1319
TOT PCT	39.7	49.4	9.9	.9	.2		100.0		100.0	100.0	100.0	100.0

ANNUAL

PERIOD: (PRIMARY) 1864-1973
(OVER-ALL) 1854-1973

AREA 0012 SOUTHEAST JAVA
9.0S 114.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
				WIND SPEED (KNOTS)						
00603	5.2	13.6	50.3	27.2	3.1	.7	.0	8.8	100.0	2651
06609	3.3	6.7	55.1	31.7	3.0	.1	.0	9.5	100.0	1167
12615	3.9	10.5	55.2	27.4	2.5	.3	.1	8.9	100.0	2267
18621	5.0	11.7	53.6	26.9	2.5	.4	.0	8.6	100.0	1319
TOT								8.9		7404
PCT	4.5	11.2	53.2	27.9	2.8	.4	*		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.1	.4	1.7	.3		3.6
NE	.9	.8	1.1	.6		3.5
E	9.1	5.9	5.7	1.4		3.8
SE	13.1	9.7	7.9	1.8		3.8
S	4.9	3.8	2.1	.8		3.1
SW	1.8	1.9	1.7	*		3.2
W	2.9	3.7	3.9	3.1		2.9
NW	1.0	1.2	1.4	1.1		1.7
VAR	.0	.0	.0	.0		.0
CALM	1.4	.8	1.0	.8		2.8
TOT OBS					773	3.8
TOT PCT	35.2	28.2	26.6	10.0	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	.0	.0	.3	.3	.2	.0	.0	.0	1.6	
NE	.0	*	.0	.1	.5	.4	.0	.1	.0	.0	2.3	
E	.1	.0	.1	.6	.9	.6	.9	.1	.0	.0	19.0	
SE	*	.0	.1	.7	2.1	.9	.7	.1	.1	.0	27.8	
S	.0	.0	.0	.5	.4	.1	.3	.0	.0	.0	10.4	
SW	.0	.0	.0	.0	.2	.5	.1	*	.0	.0	4.5	
W	.0	.0	.2	.8	2.3	1.0	.2	.3	.0	.0	8.8	
NW	.0	.0	*	.2	.9	.1	.1	*	.0	.0	3.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.3	.2	.0	.0	.0	.0	.0	3.5	
TOT OBS												773
TOT PCT	.2	.1	.5	3.2	7.8	4.0	2.5	.4	.1	.0	81.0	100.0

TABLE 7

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

CEILING (FEET)	* OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >500YD	* OR >0
				VSBY (NM)				
* OR >6500	.1	.1	.1	.1	.1	.1	.1	.1
* OR >5000	.5	.7	.7	.7	.7	.7	.7	.7
* OR >3500	2.7	3.2	3.2	3.2	3.2	3.2	3.2	3.2
* OR >2000	5.4	6.7	7.0	7.0	7.2	7.2	7.2	7.2
* OR >1000	11.8	14.4	15.0	15.0	15.1	15.1	15.1	15.1
* OR >600	13.9	17.4	18.2	18.2	18.3	18.3	18.3	18.3
* OR >300	14.2	17.7	18.6	18.7	18.8	18.8	18.8	18.8
* OR >150	14.2	17.7	18.6	18.8	18.9	18.9	18.9	18.9
* OR > 0	14.2	17.7	18.6	18.6	18.9	19.1	19.1	19.1

TOTAL NUMBER OF OBS: 796 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
8.3	17.7	28.0	17.8	9.3	5.2	5.5	2.4	5.7	.1	868

ANNUAL

PERIOD: (PRIMARY) 1864-1973
(OVER-ALL) 1854-1973

AREA 0012 SOUTHEAST JAVA
9.0S 114.3E

TABLE 8

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

VSBY (NM)		N	NE	-	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.1	.1	.3	.1	*	.1	.1	.0	.1	.8	
	TOT %	.0	.1	.1	.3	.1	*	.1	.1	.0	.1	.8	
	PCP	*	.1	.0	.0	.0	*	.0	.1	.0	.0	.2	
1<2	NO PCP	.0	.1	.3	.5	.2	.1	.1	.2	.0	.0	1.5	
	TOT %	*	.2	.3	.5	.2	.2	.1	.2	.0	.0	1.7	
	PCP	.1	.1	*	.0	*	*	.2	.0	.0	.0	.5	
2<5	NO PCP	.0	.3	.5	.1	.2	.2	*	*	.0	.0	1.3	
	TOT %	.1	.3	.5	.1	.3	.2	.2	*	.0	.0	1.8	
	PCP	.1	.3	.9	.8	.3	.4	1.0	.4	.0	.2	4.6	
5<10	NO PCP	.8	1.3	5.7	10.0	4.1	3.3	3.3	2.1	.0	.5	31.2	
	TOT %	.9	1.6	6.6	10.8	4.4	3.9	4.3	2.6	.0	.7	35.8	
	PCP	*	.2	.3	.2	.1	.1	.4	.1	.0	.0	1.5	
10+	NO PCP	1.9	1.7	12.2	20.5	7.8	3.2	6.3	2.7	.0	2.1	58.3	
	TOT %	1.9	1.9	12.5	20.7	7.9	3.3	6.7	2.8	.0	2.1	59.8	
	TOT OBS												1862
	TOT PCT	3.0	4.1	20.1	32.5	12.9	7.6	11.4	5.7	.0	2.9	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	*	*	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
	0-3	.0	.0	.0	.0	.0	*	*	.0	.0	*	.1	
1/2<1	4-10	.1	.0	.1	.2	*	.0	.1	.0	.0		.4	
	11-21	.0	*	.0	*	*	.0	.0	.1	.0		.2	
	22+	.0	.0	.0	.0	.0	*	*	.0	.0		*	
	TOT %	.1	*	.1	.2	.1	.1	.1	.1	.0	*	.7	
	0-3	*	.1	*	.0	*	*	.0	*	.0	.1	.3	
1<2	4-10	*	.1	.2	.3	.2	.1	.1	.1	.0		1.1	
	11-21	.0	*	.1	*	.1	.0	.0	*	.0		.3	
	22+	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	TOT %	.1	.3	.4	.4	.3	.1	.1	.2	.0	.1	1.7	
	0-3	*	.1	.2	*	*	.1	*	.0	.0	.1	.5	
2<5	4-10	.0	.2	.3	.1	.2	.1	.1	*	.0		1.0	
	11-21	*	.0	.1	*	.0	.0	.1	*	.0		.2	
	22+	.0	.0	.0	.0	.0	*	.1	.0	.0		.1	
	TOT %	.1	.2	.5	.1	.3	.2	.3	*	.0	.1	1.7	
	0-3	.1	.3	.6	.5	.7	.4	.2	.2	.0	.6	3.6	
5<10	4-10	.4	.8	2.9	4.2	1.9	2.0	1.7	.9	.0		14.6	
	11-21	.2	.1	1.1	2.7	.5	.3	1.0	.7	.0		6.5	
	22+	.0	.0	.1	.3	.0	.1	.4	.1	.0		1.0	
	TOT %	.6	1.2	4.6	7.7	3.0	2.8	3.2	1.9	.0	.6	25.7	
	0-3	.6	.7	1.3	2.3	1.4	.6	.7	.6	.0	3.9	12.0	
10+	4-10	1.4	1.5	9.1	13.9	5.9	3.1	4.5	1.8	.0		41.3	
	11-21	.3	.1	4.2	7.3	1.2	.9	1.8	.4	.0		16.1	
	22+	*	.0	.2	.1	.1	.0	.2	*	.0		.7	
	TOT %	2.2	2.3	14.7	23.6	8.6	4.6	7.2	2.9	.0	3.9	70.1	
	TOT OBS												2842
	TOT PCT	3.1	4.1	20.3	32.0	12.2	7.8	10.9	5.1	.0	4.7	100.0	

ANNUAL

PERIOD: (PRIMARY) 1864-1973
(OVER-ALL) 1854-1973

AREA 0012 SOUTHEAST JAVA
9.0S 114.3E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	1.0	4.7	8.2	3.4	3.8	.0	.0	.0	21.2	78.8	216
06E09	.0	.0	.0	3.8	6.3	3.8	.6	.5	.0	.0	14.9	85.1	216
12E15	.6	.0	.0	2.4	9.7	3.7	1.8	.6	.4	.0	19.3	80.7	193
18E21	.0	.4	.6	1.8	5.8	3.9	3.4	.8	.0	.0	16.7	83.3	292
TOT													857
PCT	.1	.1	.5	3.0	7.5	3.7	2.4	.5	.1	.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
00E03	.0	1.5	2.2	1.8	28.9	65.6	877
06E09	.0	.5	1.1	.9	22.7	75.0	532
12E15	.2	.4	2.4	2.4	29.7	64.9	914
18E21	.0	.7	.8	1.3	22.4	74.8	629
TOT							2952
PCT	.1	.8	1.7	1.6	26.5	69.2	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	1.1	7.6	15.7	76.8	203
06E09	.0	.0	4.6	11.5	84.0	197
12E15	.8	.8	4.0	17.5	78.5	182
18E21	.0	2.4	6.0	13.1	80.9	214
TOT						796
PCT	.2	1.0	5.3	14.4	80.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.4	.1	.0	.0		.5
85/89	.0	.0	.0	.1	1.6	5.3	2.4	.3		9.8
80/84	.0	.0	.0	.2	3.0	23.0	31.1	5.4		62.8
75/79	.0	.0	.0	.1	.9	7.2	12.3	5.7		26.5
70/74	.0	.0	.0	.0	.0	.0	.2	.3		.5
TOTAL									1363	100.0
PCT	.0	.0	.0	.5	5.8	35.6	46.3	11.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.2	.1	.0	.0	.1	.1	.0	.0
	.4	.3	1.8	2.2	1.2	.9	1.7	.7	.0	.6
	1.9	2.3	13.3	18.4	7.0	5.0	8.8	4.1	.0	2.0
	.3	.8	5.5	12.7	3.2	.9	1.6	1.0	.0	.4
	.0	.0	.1	.1	.1	*	.1	.2	.0	.0
	2.6	3.4	20.9	33.5	11.5	6.9	12.3	6.1	.0	2.9

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	94	88	87	82	78	76	72	82.4	2615
06E09	93	89	87	83	79	75	72	82.8	1145
12E15	93	86	84	81	77	76	72	81.1	2210
18E21	90	84	83	80	77	75	73	80.0	1313
TOT	94	88	86	81	78	76	72	81.6	7283

TABLE 16

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	5.3	38.5	45.0	10.9	81	456
06E09	.0	1.5	14.6	45.5	33.6	4.7	77	285
12E15	.0	.0	3.7	30.7	52.2	13.4	82	389
18E21	.0	.4	2.9	27.9	51.2	17.6	83	332
TOT	0	7	90	516	673	176	81	1462

ANNUAL

PERIOD: (PRIMARY) 1864-1973
(OVER-ALL) 1854-1973

AREA 0012 SOUTHEAST JAVA
9.0S 114.3E

TABLE 17

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

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	.1	.1	.1	3	.0	.2
7/8	.0	.0	.0	.2	.3	.4	.0	14	.0	.9
6	.0	.0	.0	.2	.2	.3	.0	9	.0	.7
5	.0	.0	.1	.4	.7	.3	.0	24	.0	1.6
4	.0	.0	.4	1.1	.9	.2	.0	37	.1	2.5
3	.0	.0	.3	2.4	1.5	.1	.0	60	.1	4.2
2	.0	.1	1.2	5.3	1.7	.0	.0	122	.5	7.9
1	.0	.5	3.2	5.1	2.2	.0	.0	160	.5	10.5
0	.0	.8	7.8	14.7	2.0	.0	.0	359	1.1	24.2
-1	.0	.3	6.4	8.7	.9	.0	.0	235	.1	16.3
-2	.0	.8	3.8	8.6	.3	.0	.0	197	.1	13.5
-3	.0	.1	2.2	2.8	.2	.0	.0	78	.0	5.4
-4	.0	.5	2.6	1.8	.0	.0	.0	71	.1	4.8
-5	.0	.4	1.1	1.0	.1	.0	.0	37	.0	2.6
-6	.0	.2	.7	.1	.0	.0	.0	15	.0	1.0
-7/-8	.1	.3	.4	.0	.0	.0	.0	11	.0	.7
-9/-10	.0	.1	.4	.0	.0	.0	.0	8	.0	.5
-11/-13	.0	.2	.0	.0	.0	.0	.0	4	.0	.2
TOTAL								1444		
PCT	.1	4.4	30.6	52.4	11.1	1.3	.1	100.0	2.4	97.6

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5
1-2	.0	.9	.0	.0	.0	.0	.9
3-4	.0	.5	.6	.0	.0	.0	1.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.9	.6	.0	.0	.0	2.5

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	1.1	.0	.0	.0	.0	1.2
3-4	.0	.1	.0	.0	.0	.0	.1
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	.1	1.6	.1	.0	.0	.0	1.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	1.0	.0	.0	.0	.0	1.7
1-2	.4	6.2	1.2	.0	.0	.0	7.7
3-4	.0	3.7	5.2	.5	.0	.0	9.4
5-6	.0	1.2	2.1	.2	.0	.0	3.5
7	.0	.0	1.3	.0	.0	.0	1.3
8-9	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	12.0	9.8	1.1	.0	.0	24.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	3.5	.0	.0	.0	.0	4.3
1-2	.2	8.6	3.5	.0	.0	.0	12.4
3-4	.0	3.4	6.6	.2	.0	.0	10.1
5-6	.0	.1	3.7	.1	.0	.0	3.8
7	.0	.0	1.2	.3	.0	.0	1.6
8-9	.0	.0	.3	.1	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	15.5	15.2	.7	.0	.0	32.5

PERIOD: (OVER-ALL) 1963-1973 ANNUAL AREA 0012 SOUTHEAST JAVA

TABLE 18 (CONT) 9.0S 114.3E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.7	.0	.0	.0	.0	1.4	.2	.2	.0	.0	.0	.0	.5
1-2	.0	4.2	.4	.0	.0	.0	4.6	.2	1.5	.8	.0	.0	.0	2.5
3-4	.0	2.1	.8	.0	.0	.0	3.0	.0	.6	.3	.0	.0	.0	.9
5-6	.0	1.2	.8	.2	.0	.0	2.2	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	8.3	2.1	.2	.0	.0	11.3	.4	2.3	1.3	.0	.0	.0	4.1

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.8	.3	.0	.0	.0	.0	1.1	.0	1.1	.0	.0	.0	.0	1.1	
1-2	.0	5.8	1.7	.0	.0	.0	7.4	.0	.9	.0	.0	.0	.0	.9	
3-4	.0	1.1	2.9	.0	.0	.0	4.0	.0	1.2	.7	.0	.0	.0	1.9	
5-6	.0	.0	2.1	.2	.0	.0	2.3	.0	.0	.8	.0	.0	.0	.8	
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	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.8	7.2	6.9	.6	.0	.0	15.5	.0	3.2	1.5	.0	.0	.0	4.7	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	8.6	7.6	.0	.0	.0	.0	16.3	
1-2	.9	29.0	7.3	.0	.0	.0	37.2	
3-4	.0	12.3	16.8	.6	.0	.0	29.8	
5-6	.0	2.5	9.2	.4	.0	.0	12.4	
7	.0	.0	3.0	.3	.0	.0	3.3	
8-9	.0	.0	.3	.5	.0	.0	.8	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.3	.0	.0	.3	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.5	51.5	36.6	2.4	.0	.0	100.0	415

PERIOD: (OVER-ALL) 1949-1969 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.9	11.9	14.9	5.3	1.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	227	3
6-7	.2	2.3	8.2	6.2	3.3	1.7	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	138	4
8-9	.0	.4	3.0	5.1	5.7	1.3	.0	.9	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	107	6
10-11	.0	.6	1.3	2.2	2.8	1.9	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	61	6
12-13	.0	.0	1.1	.5	.2	.9	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	6
>13	.0	.0	.0	.2	.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	8
INDET	5.8	1.4	2.1	1.3	.8	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	74	2
TOTAL																				628	4
PCT	9.0	16.6	30.6	20.7	14.1	6.8	.7	1.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1864-1973
(OVER-ALL) 1854-1973

AREA 0012 SOUTHEAST JAVA
9.0S 114.3E

TABLE 20

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

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
89/90	.8	.6	1.1	.0	.3	.0	.0	.0	.0	.0	.2	1.4	26	.4
87/88	4.0	3.8	4.4	1.8	.3	.5	.0	.0	.0	.0	2.3	4.8	135	2.1
85/86	19.9	21.4	23.2	18.9	6.3	3.5	.9	.0	.5	3.1	10.6	27.0	801	12.3
83/84	38.[illegible]	44.9	43.0	43.7	34.0	10.2	1.5	.8	1.6	13.7	35.8	37.5	1777	27.4
81/82	32.1	29.1	24.6	30.9	37.0	41.3	15.2	8.6	16.2	36.9	38.0	25.6	1786	27.5
79/80	3.7	3.3	3.2	3.3	17.8	28.4	30.5	22.6	33.2	27.5	12.1	3.4	919	14.2
77/78	1.3	.7	.3	1.0	4.0	11.8	27.7	42.1	31.1	15.9	1.0	.3	668	10.3
75/76	.2	.0	.2	.2	.5	2.5	17.9	16.8	14.2	2.1	.0	.0	269	4.1
73/74	.3	.0	.0	.2	.0	1.8	6.3	7.4	2.8	.8	.0	.0	99	1.5
71/72	.0	.0	.0	.0	.0	.0	.0	1.6	.5	.0	.0	.0	10	.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	875	817	633	508	400	433	541	499	431	483	519	352	6491	100.0
MEAN	83.2	83.4	83.6	83.1	81.9	80.5	78.2	77.6	78.5	80.5	82.5	83.7	81.3	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1009	1009	1008	1007	1009	1009	1009	1007	1008	187
FEB	1010	1009	1008	1007	1009	1009	1008	1008	1009	217
MAR	1010	1009	1007	1007	1009	1010	1009	1008	1009	216
APR	1010	1010	1009	1008	1010	1010	1009	1010	1010	146
MAY	1011	1010	1009	1008	1010	1011	1010	1011	1010	151
JUN	1013	1012	1011	1011	1011	1012	1012	1011	1012	183
JUL	1013	1012	1011	1010	1012	1012	1012	1011	1012	179
AUG	1013	1013	1013	1010	1012	1013	1012	1011	1012	192
SEP	1014	1013	1012	1011	1012	1013	1012	1012	1012	157
OCT	1013	1012	1010	1010	1011	1011	1011	1011	1011	172
NOV	1011	1010	1009	1008	1010	1010	1010	1010	1010	171
DEC	1010	1009	1008	1008	1009	1009	1009	1008	1009	170
ANN	1011	1011	1010	1009	1010	1011	1010	1010	1010	2141
OBS	372	414	208	186	335	196	239	191		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	1001	1003	1004	1007	1009	1010	1012	1013	1014
FEB	1002	1003	1005	1007	1009	1010	1012	1013	1014
MAR	1002	1003	1005	1007	1009	1010	1012	1013	1017
APR	1005	1005	1006	1008	1009	1011	1012	1016	1017
MAY	1003	1005	1006	1009	1010	1011	1014	1014	1015
JUN	1005	1006	1008	1010	1012	1013	1014	1015	1016
JUL	1008	1008	1009	1011	1012	1013	1014	1015	1016
AUG	1005	1006	1009	1011	1012	1013	1015	1016	1017
SEP	1008	1008	1010	1011	1012	1014	1015	1016	1017
OCT	1007	1007	1009	1010	1011	1012	1015	1015	1016
NOV	1004	1005	1007	1009	1010	1011	1013	1014	1015
DEC	1003	1004	1005	1007	1009	1010	1012	1013	1014

JANUARY

PERIOD: (PRIMARY) 1917-1969
(OVER-ALL) 1859-1969

AREA 0013 SOUTHEAST JAVA SEA
6.3S 112.8E

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	4.3	.0	.0	.0	.0	95.7
NE	2.6	.0	.0	.0	.0	.0	.0	2.6	.0	13.0	.0	.0	.0	.0	87.0
E	5.3	5.3	.0	.0	.0	.0	.0	10.5	21.1	5.3	.0	.0	.0	.0	68.4
SE	18.5	3.7	.0	.0	.0	.0	.0	22.2	.0	.0	.0	.0	1.9	.0	75.9
S	6.4	.0	.0	.0	.0	.0	.0	6.4	.0	.0	.0	.0	3.2	.0	90.4
SW	4.2	6.8	.0	.0	.0	.0	.0	10.9	.0	4.2	.0	.0	1.0	.0	85.9
W	9.0	9.1	1.0	.0	.0	.0	.0	19.1	.0	7.1	1.0	.0	.2	.0	73.7
NW	8.2	8.5	.6	.0	.0	.0	.0	17.3	.6	5.1	.6	.0	.0	.0	78.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.4	.0	3.4	.0	.0	.0	.0	6.9	.0	17.2	.0	.0	.0	.0	75.9
TOT PCT	7.5	6.9	.7	.0	.0	.0	.0	15.1	.9	6.3	.6	.0	.4	.0	78.4
TOT OBS:	536														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER 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	6.7	.0	.0	.0	.0	.0	11.0	.6	.6	.6	.0	.6	.0	87.1
06&09	5.8	12.6	.0	.0	.0	.0	.0	18.4	2.9	1.0	.0	.0	.0	.0	78.6
12&15	11.4	4.0	2.3	.0	.0	.0	.0	17.7	.6	12.6	.0	.0	.0	.0	73.1
18&21	10.3	6.3	.0	.0	.0	.0	.0	16.7	.0	11.1	1.6	.0	.8	.0	73.0
TOT PCT	8.1	6.9	.7	.0	.0	.0	.0	15.7	.9	6.7	.5	.0	.4	.0	78.1
TOT OBS:	567														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	2.9	.1	.1	.0	.0		4.7	5.3	4.9	3.6	4.1	7.5	6.4	5.3	1.3	2.8
NE	2.1	1.9	.2	.0	.0	.0		4.2	4.4	1.5	4.5	2.3	6.2	7.4	6.1	2.5	1.8
E	1.0	1.4	*	.0	.0	.0		2.4	4.4	2.1	4.7	5.7	1.0	2.0	2.9	.4	1.8
SE	.6	1.3	.4	.0	.0	.0		2.3	6.2	2.4	1.5	2.6	1.7	2.2	3.2	1.3	2.8
S	1.0	2.9	.2	*	.0	.0		4.1	6.2	6.6	4.3	1.5	.3	3.2	3.5	5.5	5.8
SW	2.1	6.2	1.5	.2	.0	.0		10.0	7.3	13.5	9.2	7.5	4.8	5.2	11.0	9.7	16.3
W	4.5	19.1	11.9	1.7	.1	.0		37.3	9.8	44.9	37.8	36.1	32.2	31.3	31.0	47.3	40.6
NW	3.9	15.3	7.4	1.2	.1	.0		27.9	9.4	18.0	29.1	34.0	41.4	34.2	28.3	25.4	19.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.2							7.2	.0	6.3	5.3	6.2	4.8	8.1	8.6	6.7	8.8
TOT OBS	334	720	306	46	3	0	1409		7.9	206	133	97	146	272	187	119	249
TOT PCT	23.7	51.1	21.7	3.3	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.7	.8	.2	.0	.0		4.7	5.3	4.4	6.2	6.0	2.3
NE	3.5	.7	.1	.0	.0		4.2	4.4	2.7	4.6	6.9	2.0
E	2.0	.3	.0	.0	.0		2.4	4.4	3.1	2.9	2.4	1.4
SE	1.4	.9	.0	.0	.0		2.3	6.2	2.1	2.1	2.6	2.3
S	2.6	1.4	.1	.0	.0		4.1	6.2	5.7	.8	3.3	5.7
SW	5.3	4.2	.6	.0	.0		10.0	7.3	11.8	5.9	7.6	14.1
W	13.7	17.7	5.4	.5	*		37.3	9.8	42.1	33.7	31.2	42.7
NW	12.0	11.1	4.4	.4	*		27.9	9.4	22.3	38.5	31.8	21.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	7.2						7.2	.0	5.9	5.3	8.3	8.2
TOT OBS	723	522	151	12	1	1409		7.9	339	263	459	368
TOT PCT	51.3	37.0	10.7	.9	.1		100.0		100.0	100.0	100.0	100.0

JANUARY

PERIOD: (PRIMARY) 1917-1969
(OVER-ALL) 1859-1969

AREA 0013 SOUTHEAST JAVA SEA
6.3S 112.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
	WIND SPEED (KNOTS)									
00&03	5.9	24.8	49.0	16.8	3.5	.0	.0	7.1	100.0	339
06&09	5.3	15.6	45.7	29.2	4.1	.0	.0	8.9	100.0	243
12&15	8.3	16.1	51.6	21.4	2.4	.2	.0	7.8	100.0	459
18&21	8.2	10.1	56.0	21.7	3.5	.5	.0	8.3	100.0	368
TOT	101	293	720	306	46	3	0	7.9		1409
PCT	7.2	16.5	51.1	21.7	3.3	.2	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.8	1.6		7.3
NE	.0	.0	1.1	.3		5.6
E	.0	.0	1.1	1.1		7.5
SE	.0	.0	.0	2.2		8.0
S	.0	.0	.0	.8		8.0
SW	.0	1.1	3.8	.5		5.6
W	6.7	5.9	21.0	14.2		5.7
NW	3.0	4.8	14.2	5.1		5.5
VAR	.0	.0	.0	.0		.0
CALM	4.3	4.3	1.1	1.1		3.3
TOT OBS	13	15	40	25	9.	5.5
TOT PCT	14.0	16.1	43.0	26.9	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	.8	.0	.0	.0	.0	.0	1.6	
	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	1.1	
	.0	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	
	.0	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	
	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	
	.0	.0	.0	.0	.3	.8	.0	.0	.0	.0	4.3	
	.0	.0	.0	2.7	10.5	6.7	.0	.0	.0	.0	28.0	
	.0	.0	.0	4.8	5.4	.3	.0	.0	.0	.0	16.7	
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.8	
	0	0	0	7	20	8	0	0	0	0	58	93
	.0	.0	.0	7.5	21.5	8.6	.0	.0	.0	.0	62.4	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >500YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	.0	.0	1.0	1.0	1.0	1.0	1.0	1.0
* OR >2000	9.3	9.3	10.3	10.3	10.3	10.3	10.3	10.3
* OR >1000	21.6	25.8	30.9	30.9	30.9	30.9	30.9	30.9
* OR >600	24.7	32.0	38.1	38.1	38.1	38.1	38.1	38.1
* OR >300	24.7	32.0	38.1	38.1	38.1	38.1	38.1	38.1
* OR >150	24.7	32.0	38.1	38.1	38.1	38.1	38.1	38.1
* OR > 0	24.7	32.0	38.1	38.1	38.1	38.1	38.1	38.1
TOTAL	24	31	37	37	37	37	37	37

TOTAL NUMBER OF OBS: 97

PCT FREQ NH <5/8: 61.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
9.7	10.1	13.8	20.2	13.8	13.8	6.4	4.6	13.8	.0	109

JANUARY

PERIOD: (PRIMARY) 1917-1969
(OVER-ALL) 1859-1969

AREA 0013 SOUTHEAST JAVA SEA
6.3S 112.8E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.3	.1	.0	.0	.4	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.3	.1	.0	.0	.4	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	*	.5	.0	.0	.0	.6	
	NO PCP	.0	.0	.0	.0	.1	.2	.1	.0	.0	.0	.4	
	TOT %	.0	.0	.0	.0	.1	.2	.6	.0	.0	.0	.9	
2<5	PCP	.0	.0	.0	.4	.2	.7	.9	.6	.0	.0	2.2	
	NO PCP	.0	.0	.3	.3	.0	.0	.3	.3	.0	.0	1.1	
	TOT %	.0	.0	.3	.7	.2	.2	1.2	.8	.0	.0	3.4	
5<10	PCP	.0	.1	.2	.2	.1	.7	5.0	3.8	.0	.2	10.3	
	NO PCP	1.2	.3	.5	.8	1.3	2.7	8.8	8.9	.0	1.1	25.2	
	TOT %	1.2	.4	.7	1.0	1.4	3.0	13.8	12.7	.0	1.3	35.4	
10+	PCP	.0	.0	.0	.0	.0	.0	.9	.8	.0	.2	1.9	
	NO PCP	3.1	3.2	.8	.8	2.7	5.6	22.1	15.7	.0	3.9	58.0	
	TOT %	3.1	3.2	.8	.8	2.7	5.6	23.0	16.5	.0	4.1	59.9	
	TOT OBS												536
	TOT PCT	4.3	3.6	1.8	2.5	4.4	9.0	38.9	30.1	.0	5.4	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	.1	.0	.0	.1	
	4-10	.0	.0	.0	.0	.0	.1	.2	.4	.0		.7	
	11-21	.0	.0	.0	.0	.0	.0	.4	.1	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.1	.6	.6	.0	.0	1.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	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	.1	.3	.0	.0		.4	
	11-21	.0	.0	.0	.0	.2	.1	.2	.0	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.1	.0		.1	
	TOT %	.0	.0	.0	.0	.2	.3	.5	.1	.0	.0	1.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.2	
	4-10	.1	.1	.2	.2	.4	.8	.6	.4	.0		2.8	
	11-21	.0	.0	.0	.2	.0	.2	1.0	.9	.0		2.3	
	22+	.0	.0	.0	.0	.1	.1	.0	.1	.0		.2	
	TOT %	.1	.1	.2	.4	.4	1.0	1.6	1.6	.0	.1	5.6	
5<10	0-3	.3	.1	.1	.0	.1	.1	.4	.4	.0	.9	2.6	
	4-10	.6	.2	.3	.6	.9	1.0	4.7	3.9	.0		12.3	
	11-21	.1	.0	.0	.0	.0	.7	3.8	4.1	.0		8.6	
	22+	.1	.0	.0	.0	.0	.2	.6	.5	.0		1.3	
	TOT %	1.1	.3	.4	.6	1.1	2.0	9.4	9.0	.0	.9	24.8	
10+	0-3	1.6	1.7	.5	.3	.8	2.4	4.1	3.6	.0	6.8	21.7	
	4-10	2.6	1.5	1.1	.5	1.3	2.9	11.8	12.5	.0		34.0	
	11-21	.1	.0	.0	.1	.1	.4	5.4	3.9	.0		10.0	
	22+	.1	.0	.0	.0	.0	.1	1.0	.6	.0		1.7	
	TOT %	4.3	3.2	1.6	.9	2.2	5.8	22.2	20.5	.0	6.8	67.4	
	TOT OBS												899
	TOT PCT	5.5	3.6	2.2	1.9	3.8	9.1	34.3	31.8	.0	7.8	100.0	

JANUARY

PERIOD: (PRIMARY) 1917-1969
(OVER-ALL) 1859-1969

AREA 0013 SOUTHEAST JAVA SEA
6.3S 112.8E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00Z03	.0	.0	.0	5.3	5.3	21.1	5.3	.0	.0	.0	36.8	63.2	19
06Z09	.0	.0	.0	4.0	40.0	.0	.0	.0	.0	.0	44.0	56.0	25
12Z15	.0	.0	.0	14.3	10.7	3.6	.0	.0	.0	.0	28.6	71.4	28
18Z21	.0	.0	.0	3.1	18.8	12.5	.0	.0	.0	.0	34.4	65.6	32
TOT	0	0	0	7	20	9	1	0	0	0	37	67	104
PCT	.0	.0	.0	6.7	19.2	8.7	1.0	.0	.0	.0	35.6	64.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00Z03	.9	.0	.5	3.6	19.9	75.1	221
06Z09	.6	.0	.0	8.9	28.0	62.4	157
12Z15	1.5	.0	1.8	4.5	23.9	68.3	331
18Z21	1.4	.0	1.4	6.3	32.9	58.1	222
TOT	11	0	10	51	240	619	931
PCT	1.2	.0	1.1	5.5	25.8	66.5	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00Z03	.0	.0	10.5	26.3	63.2	19
06Z09	.0	.0	12.5	33.3	54.2	24
12Z15	.0	.0	22.2	7.4	70.4	27
18Z21	.0	.0	3.7	37.0	59.3	27
TOT	0	0	12	25	60	97
PCT	.0	.0	12.4	25.8	61.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.3	.6	1.4	.0	8	2.2
85/89	.0	.0	.0	.0	.6	6.2	3.4	2.2	44	12.4
80/84	.0	.0	.0	.0	.3	13.8	41.3	17.7	260	73.0
75/79	.0	.0	.0	.0	.3	1.4	3.7	7.0	44	12.4
TOTAL	0	0	0	0	5	78	177	96	356	100.0
PCT	.0	.0	.0	.0	1.4	21.9	49.7	27.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.3	.0	.0	.0	.0	.4	.9	.7	.0	.0
	.3	.3	.3	.0	.8	1.8	4.1	3.3	.0	1.4
	3.3	1.9	1.8	2.7	3.2	4.1	27.5	24.3	.0	4.2
	.6	.3	.0	.0	.3	1.8	5.3	4.1	.0	.0
	4.4	2.5	2.1	2.7	4.4	8.1	37.9	32.4	.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
00Z03	91	90	88	82	79	76	75	82.3	337
06Z09	95	91	87	83	78	77	76	83.0	239
12Z15	91	87	85	82	78	76	75	81.5	469
18Z21	88	85	83	81	77	76	75	80.6	373
TOT	95	90	86	82	78	76	75	81.7	1418

TABLE 16

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	2.3	29.5	40.9	27.3	85	132
06Z09	.0	.0	1.6	33.3	47.6	17.5	82	63
12Z15	.0	.0	.0	10.9	56.4	32.7	87	110
18Z21	.0	.0	1.3	11.8	60.5	26.3	86	76
TOT	0	0	5	81	192	103	85	381

JANUARY

PERIOD: (PRIMARY) 1917-1969
(OVER-ALL) 1859-1969

AREA 0013 SOUTHEAST JAVA SEA
6.3S 112.8E

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 THP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.0	.3	1	.0	.3
6	.0	.0	.0	.0	.5	2	.0	.5
5	.0	.0	.0	.5	1.1	6	.0	1.6
4	.0	.0	.3	.3	.3	3	.0	.8
3	.0	.0	1.6	.3	.5	9	.0	2.4
2	.0	.3	3.4	2.6	.0	24	.0	6.3
1	.0	.3	4.8	1.1	.0	23	.3	5.8
0	.0	1.6	19.3	1.6	.0	85	.0	22.5
-1	.0	1.6	9.5	1.6	.0	48	.0	12.7
-2	.0	7.4	16.7	.3	.0	92	.0	24.3
-3	.0	4.2	4.8	.5	.0	36	.0	9.5
-4	.3	4.0	4.0	.0	.0	31	.0	8.2
-5	.0	1.6	1.6	.0	.0	12	.0	3.2
-6	.3	.8	.0	.0	.0	4	.0	1.1
-7/-8	.3	.3	.0	.0	.0	2	.0	.5
TOTAL	3	83	249	33	10	378	1	377
PCT	.8	22.0	65.9	8.7	2.6	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.1	.0	.0	.0	.0	1.1
3-4	.0	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	3.4	.0	.0	.0	.0	3.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.5	.0	.0	.0	.0	1.5
1-2	.0	.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	1.9	.0	.0	.0	.0	1.9

E

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

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

PERIOD: (OVER-ALL) 1963-1969

JANUARY

TABLE 18 (CONT)

AREA 0013 SOUTHEAST JAVA SEA
6.3S 112.8E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0	1.5
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0	1.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.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	3.4	.4	.0	.0	.0	3.8

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	1.5	2.7	.0	.0	.0	.0	4.2	.0	.4	.0	.0	.0	.0	.4	
1-2	.0	14.0	5.3	.0	.0	.0	19.3	4.5	2.3	5.3	.0	.0	.0	12.1	
3-4	.0	1.5	9.5	.0	.0	.0	11.0	.0	3.8	2.3	.0	.0	.0	6.1	
5-6	.0	.0	7.2	3.0	.0	.0	10.2	.0	.0	6.4	.0	.0	.0	6.4	
7	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.4	.0	.0	.0	.4	
8-9	.0	.0	.0	1.1	.0	.0	1.1	.0	.0	.0	.4	.0	.0	.4	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.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	18.2	23.1	4.2	.0	.0	47.0	4.5	6.4	14.4	.4	.0	.0	25.8	87.9

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	6.1	.0	.0	.0	.0	19.7	
1-2	4.5	21.2	10.6	.0	.0	.0	36.4	
3-4	.0	7.6	15.2	.0	.0	.0	22.7	
5-6	.0	1.5	13.6	3.0	.0	.0	18.2	
7	.0	.0	1.5	.0	.0	.0	1.5	
8-9	.0	.0	.0	1.5	.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	18.2	36.4	40.9	4.5	.0	.0	100.0	66

PERIOD: (OVER-ALL) 1950-1969

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	13.2	18.7	18.7	9.9	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	56	2
6-7	.0	.0	5.5	7.7	2.2	1.1	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	5
8-9	.0	.0	.0	.0	.0	2.2	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	9
10-11	.0	1.1	.0	1.1	.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	12.1	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	0
TOTAL	23	20	22	17	2	4	2	1	0	0	0	0	0	0	0	0	0	0	0	91	3
PCT	25.3	22.0	24.2	18.7	2.2	4.4	2.2	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1918-1973
(OVER-ALL) 1860-1973

AREA 0013 SOUTHEAST JAVA SEA
6.3S 112.9E

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	2.2	.0	.0	.0	.0	.0	2.2	.0	.0	2.2	.0	.0	.0	.0	95.5
NE	8.9	.0	.0	.0	.0	.0	.0	8.9	.0	4.4	8.9	.0	.0	.0	.0	77.8
E	.0	6.9	.0	.0	.0	.0	.0	6.9	.0	4.6	4.6	.0	.0	.0	.0	83.9
SE	.0	3.4	.0	.0	.0	.0	.0	3.4	.0	.0	6.9	.0	.0	.0	.0	89.7
S	10.3	5.1	2.6	.0	.0	.0	.0	17.9	.0	15.4	.0	.0	.0	.0	.0	71.8
SW	6.4	.0	1.3	.0	.0	.0	.0	7.6	.0	.6	.0	.0	.0	.0	.0	91.7
W	5.3	4.0	1.1	.0	.0	.0	.0	10.4	2.9	5.3	.0	.0	.0	.0	.0	82.9
NW	5.5	1.3	.0	.0	.0	.0	.0	6.9	.5	4.0	.8	.0	.0	.0	.0	88.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.8	.0	.0	.0	.0	.0	.0	4.8	.0	.0	.0	.0	4.8	.0	.0	90.5
TOT PCT	5.2	2.5	.6	.0	.0	.0	.0	8.2	1.1	4.2	1.1	.0	.2	.0	.0	85.8
TOT OBS:	522															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER 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	7.5	3.1	1.2	.0	.0	.0	.0	11.8	1.2	.6	.0	.0	.0	.0	86.3
06E09	2.9	2.0	.0	.0	.0	.0	.0	4.9	2.9	1.0	1.0	.0	.0	.0	91.2
12E15	4.7	2.9	.0	.0	.0	.0	.0	7.6	.6	7.6	1.8	.0	.6	.0	83.5
18E21	6.7	2.5	.8	.0	.0	.0	.0	10.0	.0	6.7	2.5	.0	.0	.0	81.7
TOT PCT	5.6	2.7	.5	.0	.0	.0	.0	8.9	1.1	4.2	1.3	.0	.2	.0	85.4
TOT OBS:	553														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.3	3.8	.4	.0	.0	.0		6.6	5.4	4.0	9.7	2.3	10.2	7.8	7.4	4.3	4.7
NE	1.5	2.4	.0	.0	.0	.0		4.0	4.4	2.5	3.5	4.8	4.2	4.7	5.5	1.8	3.8
E	1.2	2.2	.1	.0	.0	.0		3.6	4.7	1.4	3.1	3.6	2.7	5.8	5.5	2.7	2.4
SE	1.1	1.5	.2	.0	.0	.0		2.8	5.2	3.0	3.5	1.5	2.4	3.2	2.4	1.8	3.8
S	.9	2.4	.2	.0	.0	.0		3.6	5.6	5.6	4.2	2.6	1.2	2.5	2.4	3.2	6.4
SW	1.6	5.1	.8	*	.0	.0		7.5	6.2	13.0	6.4	7.7	4.2	6.0	3.2	12.4	9.2
W	3.5	18.7	10.2	.8	*	.0		33.2	9.3	36.9	31.3	37.0	31.9	27.1	33.7	32.9	37.9
NW	3.8	16.7	9.5	.4	*	.0		30.4	9.0	29.1	30.0	36.5	37.7	33.3	26.3	34.7	21.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.3							8.3	.0	4.5	8.3	4.1	5.4	9.6	13.7	6.3	10.4
TOT OBS	331	718	291	17	1	0	1358		7.3	177	144	98	166	261	190	111	211
TOT PCT	24.4	52.9	21.4	1.3	.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	4.5	2.1	.0	.0	.0		6.6	5.4	6.5	7.3	7.6	4.6
NE	3.4	.6	.0	.0	.0		4.0	4.4	3.0	4.5	5.0	3.1
E	3.1	.5	.0	.0	.0		3.6	4.7	2.2	3.0	5.7	2.5
SE	2.2	.6	.1	.0	.0		2.8	5.2	3.2	2.1	2.8	3.1
S	2.5	1.1	.0	.0	.0		3.6	5.6	5.0	1.7	2.4	5.3
SW	5.0	2.3	.2	.0	.0		7.5	6.2	10.0	5.5	4.8	10.3
W	12.0	17.5	3.6	.1	.0		33.2	9.3	34.3	33.8	29.9	36.2
NW	11.4	16.2	2.8	.1	.0		30.4	9.0	29.5	37.2	30.4	25.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	8.3						8.3	.0	6.2	4.9	11.3	9.0
TOT OBS	711	555	90	2	0	1358		7.3	321	264	451	322
TOT PCT	52.4	40.9	6.6	.1	.0		100.0		100.0	100.0	100.0	100.0

FEBRUARY

PERIOD: (PRIMARY) 1918-1973
(OVER-ALL) 1860-1973

AREA 0013 SOUTHEAST JAVA SEA
6.35 112.9E

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
00&03	6.2	20.9	52.3	18.7	1.9	.0	.0	7.1	100.0	321
06&09	4.9	11.7	54.9	26.5	1.5	.4	.0	8.4	100.0	264
12&15	11.3	17.1	51.4	20.0	.2	.0	.0	6.8	100.0	451
18&21	9.0	13.4	53.7	22.0	1.9	.0	.0	7.5	100.0	322
TOT	113	218	718	291	17	1	0	7.3		1358
PCT	8.3	16.1	52.9	21.4	1.3	.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	.8	.0	1.2		6.4
NE	2.3	.0	.8	.0		2.5
E	2.1	.8	.8	.0		2.4
SE	.2	.0	.8	.0		4.4
S	.0	.8	.6	.0		4.7
SW	.8	.0	2.9	1.7		6.2
W	4.6	4.8	17.7	15.4		6.0
NW	6.9	2.9	15.0	13.3		5.7
VAR	.0	.0	.0	.0		.0
CALM	.8	1.5	.8	.0		3.7
TOT OBS	23	15	51	41	130	5.6
TOT PCT	17.7	11.5	39.2	31.5	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	1.2	.0	.0	.0	.0	.0	.8	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
S	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.8	
SW	.0	.0	.0	.8	.0	.2	.8	.8	.0	.0	2.9	
W	.0	.0	.8	5.4	4.8	2.1	.0	.0	.0	.0	29.4	
NW	.0	.8	.8	3.8	4.0	3.3	.0	.0	.0	.0	25.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	2.3	
TOT OBS	0	1	2	13	13	8	1	1	1	0	90	130
TOT PCT	.0	.8	1.5	10.0	10.0	6.2	.8	.8	.8	.0	69.2	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.8	.8	.8	.8	.8	.8	.8	.8
= OR >5000	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
= OR >3500	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
= OR >2000	6.9	8.5	8.5	8.5	8.5	8.5	8.5	8.5
= OR >1000	16.2	18.5	18.5	18.5	18.5	18.5	18.5	18.5
= OR >600	21.5	29.2	29.2	29.2	29.2	29.2	29.2	29.2
= OR >300	21.5	30.8	30.8	30.8	30.8	30.8	30.8	30.8
= OR >150	21.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
= OR > 0	21.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
TOTAL	28	41	41	41	41	41	41	41

TOTAL NUMBER OF OBS: 130 PCT FREQ NH <5/8: 68.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
4.3	14.3	14.3	23.6	12.1	[illegible].1	7.9	3.6	12.9	.0	140

PERIOD: (PRIMARY) 1918-1973
(OVER-ALL) 1860-1973

AREA 0013 SOUTHEAST JAVA SEA
6.3S 112.9E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	
	TOT %	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.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	.0	.0	.0	.3	.5	.2	.0	.0	1.2	
	NO PCP	.0	.0	.0	.0	.0	.3	.4	.4	.0	.2	1.3	
	TOT %	.0	.2	.0	.0	.0	.6	.9	.6	.0	.2	2.5	
5<10	PCP	.0	.0	.2	.0	.7	.3	2.5	1.0	.0	.2	4.8	
	NO PCP	1.4	1.4	.3	1.5	1.6	2.0	8.2	8.4	.0	1.0	26.0	
	TOT %	1.4	1.4	.5	1.5	2.3	2.3	10.7	9.4	.0	1.2	30.8	
10+	PCP	.1	.2	.1	.1	.0	.0	.3	1.3	.0	.0	2.3	
	NO PCP	2.7	2.5	3.6	1.2	1.4	4.7	21.3	24.4	.0	2.5	64.2	
	TOT %	2.8	2.7	3.7	1.3	1.4	4.7	21.8	25.7	.0	2.5	66.5	
	TOT OBS												520
	TOT PCT	4.3	4.3	4.2	2.8	3.8	7.5	33.5	35.8	.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
<1/2	0-3	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.1	.1	.0	.0	.1	.1	.3	.1	.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	.2	.1	.0	.1	.1	.3	.1	.0	.0	.8	
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	.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	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.1	.2	.1	.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	.0	.1	.2	.1	.0	.0	.0	.3	
2<5	0-3	.0	.0	.0	.0	.0	.2	.1	.1	.0	.3	.8	
	4-10	.1	.1	.0	.0	.0	.5	.9	.7	.0		2.4	
	11-21	.1	.0	.0	.0	.0	.0	.4	.1	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.1	.0	.0	.0	.7	1.4	.9	.0	.3	3.7	
5<10	0-3	.3	.4	.1	.4	.1	.5	.2	.7	.0	1.1	3.9	
	4-10	.8	.5	.2	.4	1.2	1.1	4.8	4.3	.0		13.3	
	11-21	.2	.0	.0	.1	.0	.1	2.2	1.1	.0		3.8	
	22+	.0	.0	.0	.0	.0	.0	.1	.1	.0		.2	
	TOT %	1.3	.9	.3	1.0	1.3	1.7	7.3	6.3	.0	1.1	21.3	
10+	0-3	1.8	1.2	1.3	.6	.8	1.1	3.3	3.4	.0	7.3	20.9	
	4-10	3.7	1.8	1.8	.4	.8	3.5	12.2	14.0	.0		38.2	
	11-21	.2	.0	.2	.2	.1	.4	6.8	6.6	.0		14.5	
	22+	.0	.0	.0	.0	.0	.0	.1	.0	.0		.1	
	TOT %	5.6	3.0	3.4	1.2	1.7	4.9	22.5	24.0	.0	7.3	73.7	
	TOT OBS												892
	TOT PCT	7.2	4.2	3.8	2.2	3.2	7.5	31.8	31.3	.0	8.7	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1918-1973
(OVER-ALL) 1860-1973

AREA 0013 SOUTHEAST JAVA SEA
6.3S 112.9E

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	3.3	.0	10.0	13.3	10.0	.0	.0	.0	.0	36.7	63.3	30
06Z09	.0	.0	3.4	6.9	10.3	6.9	.0	.0	.0	.0	27.6	72.4	29
12Z15	.0	.0	2.9	11.4	5.7	8.6	.0	.0	.0	.0	28.6	71.4	35
18Z21	.0	.0	.0	11.6	9.3	.0	2.3	2.3	2.3	.0	27.9	72.1	43
TOT	0	1	2	14	13	8	1	1	1	0	41	96	137
PCT	.0	.7	1.5	10.2	9.5	5.8	.7	.7	.7	.0	29.9	70.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00Z03	.9	.0	.4	3.1	17.9	77.7	224
06Z09	1.2	.6	.6	2.4	24.2	70.9	165
12Z15	.6	.3	.0	5.3	25.1	68.7	319
18Z21	.5	.0	.5	2.3	25.1	71.6	215
TOT	7	2	3	33	214	664	923
PCT	.8	.2	.3	3.6	23.2	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 <5CYD	<600 <1	<1000 <5	1000+ AND>4	NH <5/8 AND 5+	TOTAL OBS
00Z03	.0	3.6	17.9	25.0	57.1	28
06Z09	.0	3.6	10.7	17.9	71.4	28
12Z15	.0	3.0	15.2	15.2	69.7	33
18Z21	.0	.0	12.2	17.1	70.7	41
TOT	0	3	18	24	88	130
PCT	.0	2.3	13.8	18.5	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	.6	.6	.3	.0	5	1.5
85/89	.0	.0	.0	.0	1.2	4.9	6.1	3.3	51	15.5
80/84	.0	.0	.0	.0	.6	17.3	43.5	12.5	243	73.9
75/79	.0	.0	.0	.0	.0	.9	4.0	4.3	30	9.1
TOTAL	0	0	0	0	8	78	177	66	329	100.0
PCT	.0	.0	.0	.0	2.4	23.7	53.8	20.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	.0	.6	.3	.6	.0	.0
	.5	.6	.9	.3	.3	.7	5.0	6.5	.0	.6
	2.5	2.9	1.8	2.4	3.6	5.6	23.7	28.0	.0	3.3
	.2	.3	.2	.2	1.4	.5	3.0	2.8	.0	.6
	3.3	3.8	2.9	2.8	5.3	7.4	32.1	37.9	.0	4.6

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00Z03	95	91	88	82	79	75	74	82.5	321
06Z09	91	90	87	83	79	75	75	82.8	265
12Z15	90	86	85	82	78	76	74	81.7	453
18Z21	86	84	83	81	77	75	74	80.7	325
TOT	95	89	86	82	78	75	74	81.9	1364

TABLE 16

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	.9	24.1	44.4	30.6	85	108
06Z09	.0	.0	13.6	39.0	39.0	8.5	79	59
12Z15	.0	.0	.0	27.2	52.4	20.4	84	103
18Z21	.0	.0	.0	8.3	76.2	15.5	84	84
TOT	0	0	9	84	189	72	84	354

FEBRUARY

PERIOD: (PRIMARY) 1918-1973
(OVER-ALL) 1860-1973

AREA 0013 SOUTHEAST JAVA SEA
6.35 112.9E

TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.0	.2	1	.0	.2
6	.0	.0	.0	.0	.5	2	.0	.5
5	.0	.0	.0	.2	.2	2	.0	.5
4	.0	.0	.0	1.5	.2	7	.0	1.7
3	.0	.0	.5	1.5	.5	10	.2	2.2
2	.0	.0	4.2	2.0	.0	25	.2	6.0
1	.0	.0	6.2	2.7	.0	36	.7	8.2
0	.0	1.0	22.6	1.5	.2	102	.2	25.1
-1	.0	1.7	10.7	1.5	.0	56	.0	13.9
-2	.2	8.2	16.9	.0	.0	102	.0	25.4
-3	.0	1.0	2.5	.0	.0	14	.0	3.5
-4	.2	2.7	3.2	.0	.0	25	.0	6.2
-5	.5	2.2	1.0	.0	.0	15	.0	3.7
-6	.0	.7	.0	.0	.0	3	.0	.7
-7/-8	.2	.2	.0	.0	.0	2	.0	.5
TOTAL	5	72	273	44	8	402	6	396
PCT	1.2	17.9	67.9	10.9	2.0	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	.0	.9	.0	.0	.0	.0	.9
1-2	.0	.9	.0	.0	.0	.0	.9
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.8	.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	2.4	.0	.0	.0	.0	2.4
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.4	.0	.0	.0	.0	2.4

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	1.2	.0	.0	.0	.0	1.2
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.2	.0	.0	.0	.0	1.2

PERIOD: (OVER-ALL) 1963-1973

FEBRUARY

TABLE 18 (CONT)

AREA 0013 SOUTHEAST JAVA SEA
6.35 112.9E

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	.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	.3	4.0	.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	.3	4.0	.0	.0	.0	.0	4.3

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	.9	.0	.0	.0	.0	1.8
1-2	.9	9.8	6.1	.0	.0	.0	16.8
3-4	.0	4.6	12.8	.0	.0	.0	17.4
5-6	.0	.0	4.9	.0	.0	.0	4.9
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.8	15.2	23.8	.0	.0	.0	40.9

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	4.3	.0	.0	.0	.0	4.6	
1-2	2.4	9.8	6.1	.0	.0	.0	18.3	
3-4	.0	6.4	16.5	.0	.0	.0	22.9	
5-6	.0	1.2	1.2	.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	2.7	21.6	23.8	.0	.0	.0	48.2	98.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.6	6.0	.0	.0	.0	.0	9.6	
1-2	3.6	27.7	12.0	.0	.0	.0	43.4	
3-4	.0	10.8	28.9	.0	.0	.0	39.[illegible]	
5-6	.0	1.2	6.[illegible]	.0	.0	.0	7.[illegible]	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.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	45.8	47.0	.0	.0	.0	100.0	83

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	7.4	31.4	28.9	7.4	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	92	3
6-7	.0	1.7	9.9	9.1	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	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	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	0
TOTAL	12	40	47	20	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	121	3
PCT	9.9	33.1	38.8	16.5	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1921-1973
(OVER-ALL) 1860-1973

AREA 0013 SOUTHEAST JAVA SEA
6.2S 112.8E

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	8.5	.0	.0	.0	.0	.0	.0	8.5	.0	1.9	7.5	.0	.0	.0		82.1
NE	1.6	.0	3.2	.0	.0	.0	.0	4.8	.0	6.4	.0	.0	.0	.0		88.8
E	1.4	2.8	.0	.0	.0	.0	.0	4.3	.0	9.2	.0	.0	.0	.0		87.9
SE	6.2	6.2	.0	.0	.0	.0	.0	12.3	3.1	3.8	.0	.0	.0	.0		83.8
S	36.4	.0	.0	.0	.0	.0	.0	36.4	.0	11.7	.0	.0	.0	.0		59.7
SW	13.3	14.5	.0	.0	.0	.0	.0	27.7	.0	2.4	1.2	.0	.0	.0		69.9
W	5.4	4.4	.0	.0	.0	.0	.0	9.8	1.2	3.5	.3	.0	.0	.0		85.5
NW	3.2	8.3	.0	.0	.0	.0	.0	11.4	2.2	3.4	1.0	.0	1.0	.0		81.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	5.9	.0	.0	.0	.0	.0	.0	5.9	2.9	.0	.0	.0	2.9	.0		88.2
TOT PCT	6.6	5.1	.2	.0	.0	.0	.0	11.9	1.9	4.0	.8	.0	.4	.0		82.4
TOT OBS:	471															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER 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	3.4	.0	.0	.0	.0	.0	9.4	4.3	.0	1.7	.0	.9	.0		83.8
06&09	4.2	3.4	.0	.0	.0	.0	.0	7.6	.8	.0	.8	.0	.0	.0		90.7
12&15	9.4	6.0	.0	.0	.0	.0	.0	15.4	.0	8.1	1.3	.0	.7	.0		75.8
18&21	8.6	8.6	.8	.0	.0	.0	.0	18.0	.0	7.0	1.6	.0	.0	.0		75.0
TOT PCT	7.2	5.5	.2	.0	.0	.0	.0	12.9	1.2	4.1	1.4	.0	.4	.0		80.9
TOT OBS:	512															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	4.2	.5	.0	.0	.0		6.7	5.3	3.1	5.0	5.7	15.4	8.7	5.1	7.4	3.9
NE	1.8	4.1	*	.0	.0	.0		5.9	5.0	5.9	6.9	4.3	10.3	6.3	5.8	5.5	3.7
E	1.9	4.2	.7	.0	.0	.0		6.8	5.9	5.4	7.9	7.1	2.7	9.5	8.8	4.8	6.6
SE	1.6	4.7	.3	.0	.0	.0		6.7	5.7	7.9	3.5	8.2	3.1	4.4	9.3	6.2	9.7
S	.7	2.9	.3	.0	.0	.0		4.0	6.6	5.6	4.2	1.1	.3	3.8	4.4	4.8	6.1
SW	1.9	5.5	.9	*	.0	.0		8.3	6.4	16.0	6.2	6.8	2.1	4.5	9.6	6.9	12.1
W	4.2	17.5	5.8	.5	.0	.0		28.1	8.0	30.7	31.7	34.8	25.7	24.5	27.2	23.3	30.1
NW	3.2	13.3	4.4	.2	.0	.0		21.2	7.7	18.5	25.7	17.9	33.6	21.6	16.6	23.1	16.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	12.1							12.2	.0	6.8	8.9	14.1	6.8	16.7	13.2	18.1	12.1
TOT OBS	359	687	159	10	0	0	1215		6.1	161	101	92	146	222	182	105	206
TOT PCT	29.5	56.5	13.1	.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	5.2	1.4	.2	.0	.0		6.7	5.3	3.8	11.7	7.1	5.1
NE	4.6	1.4	.0	.0	.0		5.9	5.0	6.3	8.0	6.1	3.9
E	4.5	2.3	.0	.0	.0		6.8	5.9	6.4	4.4	9.2	5.9
SE	4.6	2.1	.0	.0	.0		6.7	5.7	6.2	5.0	6.6	8.5
S	2.2	1.8	.0	.0	.0		4.0	6.6	5.1	.6	4.1	5.6
SW	5.3	2.7	.3	.0	.0		8.3	6.4	12.2	3.9	6.8	10.4
W	13.4	12.7	1.9	.2	.0		28.1	8.0	31.1	29.2	25.7	27.8
NW	11.0	9.1	1.1	.0	.0		21.2	7.7	21.3	27.5	19.4	18.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	12.2						12.2	.0	7.6	9.7	13.1	14.1
TOT OBS	765	406	42	2	0	1215		6.1	262	238	404	311
TOT PCT	63.0	33.4	3.5	.2	.0		100.0		100.0	100.0	100.0	100.0

MARCH

PERIOD: (PRIMARY) 1921-1973
(OVER-ALL) 1860-1973

AREA 0013 SOUTHEAST JAVA SEA
6.2S 112.8E

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	7.6	19.1	57.6	14.9	.8	.0	.0	6.5	100.0	262
06&09	9.7	14.7	58.0	16.8	.8	.0	.0	6.7	100.0	238
12&15	15.1	20.3	52.2	11.6	.7	.0	.0	5.6	100.0	404
18&21	14.1	14.5	59.8	10.6	1.0	.0	.0	6.0	100.0	311
TOT	148	212	686	159	10	0	0	6.1		1215
PCT	12.2	17.4	56.5	13.1	.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	.5	1.1	3.1	1.1		5.9
NE	.2	3.1	3.5	.0		4.7
E	1.8	.7	5.7	.0		4.7
SE	2.6	1.5	1.1	.0		3.1
S	.0	.0	2.0	1.5		7.0
SW	.4	.0	5.3	.4		5.9
W	2.0	6.9	15.3	7.7		5.7
NW	1.3	2.7	10.8	3.3		5.8
VAR	.0	.0	.0	.0		.0
CALM	4.4	5.8	4.4	.0		3.5
TOT OBS	18	30	70	19	137	5.2
TOT PCT	13.1	21.9	51.1	13.9	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
.0	.0	.0	.7	1.1	.0	.0	.0	.0	.7	3.3	
.0	.0	.0	.0	1.6	.7	.0	.0	.0	.0	4.4	
.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	7.7	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1	
.0	.0	.0	.7	.7	.0	.0	.0	.0	.0	2.0	
.0	.0	.0	1.5	.7	.4	.0	.0	.0	.0	3.5	
.0	.0	.0	2.9	3.3	3.1	1.5	.0	.0	.7	20.4	
.0	.0	.0	.0	2.2	.2	1.5	.0	.0	.0	14.2	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.7	1.5	.7	.0	.0	.0	.0	11.7	
0	0	0	9	16	7	4	0	0	2	99	137
.0	.0	.0	6.6	11.7	5.1	2.9	.0	.0	1.5	72.3	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	1.4	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	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
* OR >2000	8.6	9.4	9.4	9.4	9.4	9.4	9.4	9.4
* OR >1000	20.1	20.9	20.9	20.9	20.9	20.9	20.9	20.9
* OR >600	25.9	26.6	27.3	27.3	27.3	27.3	27.3	27.3
* OR >300	25.9	26.6	27.3	27.3	27.3	27.3	27.3	27.3
* OR >150	25.9	26.6	27.3	27.3	27.3	27.3	27.3	27.3
* OR > 0	25.9	26.6	27.3	27.3	27.3	27.3	27.3	27.3
TOTAL	36	37	38	38	38	38	38	38

TOTAL NUMBER OF OBS: 139

PCT FREQ NM <5/8: 72.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
4.3	11.2	24.2	19.3	15.5	11.8	6.8	4.3	2.5	.0	161

MARCH

PERIOD: (PRIMARY) 1921-1973
(OVER-ALL) 1860-1973

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.8E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.1	.1	.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	.1	.1	.0	.0	.0	.2	
	TOT %	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2	
1<2	PCP	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.4	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
	TOT %	.0	.0	.0	.0	.2	.2	.0	.2	.0	.0	.6	
2<5	PCP	.0	.0	.0	.0	.2	.2	.3	[illegible]	.0	.0	1.1	
	NO PCP	.3	.0	.0	.0	.0	.0	.5	[illegible]		.0	1.1	
	TOT %	.3	.0	.0	.0	.2	.2	.8	.6		.0	2.1	
5<10	PCP	.2	.3	.3	.9	1.1	1.9	2.1	2.0	.0	.4	8.9	
	NO PCP	1.9	1.9	2.2	1.9	.9	2.2	9.9	7.0	.0	1.7	29.6	
	TOT %	2.7	2.2	2.6	2.8	1.9	3.7	12.1	9.0	.0	2.1	38.5	
10+	PCP	.2	.0	.0	.0	.0	.5	.5	.1	.0	.0	1.3	
	NO PCP	3.0	4.4	4.9	4.1	1.8	3.9	17.8	11.9	.0	5.1	57.0	
	TOT %	3.2	4.4	4.9	4.1	1.8	4.4	18.4	12.0	.0	5.1	58.3	
	TOT OBS												470
	TOT PCT	9.6	6.6	7.5	6.9	4.1	8.6	31.5	21.9	.0	7.2	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	.1	.1	.0	.0	.1	.3	
	4-10	.0	.3	.0	.2	.1	.1	.5	.4	.0		1.5	
	11-21	.0	.0	.0	.0	.0	.0	.1	.1	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.3	.0	.2	.1	.2	.6	.4	.0	.1	1.9	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.1	.1	.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	.1	.1	.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	.1	.3	.3	.0		.6	
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.1	.1	.3	.3	.0	.0	.8	
2<5	0-3	.1	.0	.0	.0	.0	.0	.3	.2	.0	.0	.5	
	4-10	.2	.0	.0	.0	.1	.1	.6	.4	.0		1.4	
	11-21	.0	.0	.0	.0	.0	.1	.3	.1	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.0	.0	.0	.1	.2	1.1	.7	.0	.0	2.4	
5<10	0-3	.3	.6	.3	.5	.1	.5	1.3	.8	.0	2.0	6.4	
	4-10	1.1	.9	.7	.9	1.0	1.6	5.2	3.4	.0		14.9	
	11-21	.1	.0	.5	.3	.3	.3	1.1	1.2	.0		3.8	
	22+	.0	.0	.0	.0	.0	.0	.2	.2	.0		.4	
	TOT %	1.5	1.5	1.5	1.8	1.4	2.5	7.7	5.6	.0	2.0	25.4	
10+	0-3	1.3	1.2	1.0	.6	.3	1.2	2.5	2.4	.0	9.5	20.0	
	4-10	3.4	3.0	3.4	3.8	1.3	3.8	12.8	10.2	.0		41.9	
	11-21	.2	.0	.1	.1	.0	.2	4.1	2.9	.0		7.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	4.9	4.2	4.5	4.5	1.7	5.1	19.3	15.6	.0	9.6	69.5	
	TOT OBS												800
	TOT PCT	6.7	6.0	6.0	6.4	3.3	8.1	29.1	22.5	.0	11.0	100.0	

MARCH

PERIOD: (PRIMARY) 1921-1973
(OVER-ALL) 1860-1973

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.8E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	.0	8.3	16.7	.0	2.8	.0	.0	.0	27.8	72.2	36
06E09	.0	.0	.0	2.9	8.6	5.7	2.9	.0	.0	.0	20.0	80.0	35
12E15	.0	.0	.0	4.3	8.5	2.1	2.1	.0	.0	2.1	19.1	80.9	47
18E21	.0	.0	.0	7.5	7.5	10.0	2.5	.0	.0	2.5	30.0	70.0	40
TOT	0	0	0	9	16	7	4	0	0	2	38	120	158
PCT	.0	.0	.0	5.7	10.1	4.4	2.5	.0	.0	1.3	24.1	75.9	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	1.1	.0	.6	.6	27.8	70.0	180
06E09	1.2	.0	.6	2.4	28.5	67.3	165
12E15	2.5	.4	1.1	3.9	24.2	68.0	281
18E21	1.9	.0	.5	1.9	31.2	64.7	215
TOT	15	1	6	20	232	567	841
PCT	1.8	.1	.7	2.4	27.6	67.4	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 <5OVD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	.0	9.4	21.9	68.8	32
06E09	.0	.0	3.6	21.4	75.0	28
12E15	.0	.0	6.5	15.2	78.3	46
18E21	.0	.0	9.1	27.3	63.6	33
TOT	0	0	10	29	100	139
PCT	.0	.0	7.2	20.9	71.9	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	.7	.0	.0	.0	2	.7
85/89	.0	.0	.0	.0	1.1	7.4	1.1	1.1	30	10.6
80/84	.0	.0	.0	.7	.4	25.4	41.9	10.9	225	79.2
75/79	.0	.0	.0	.0	.0	.7	1.8	7.0	27	9.5
TOTAL	0	0	0	2	6	95	127	54	284	100.0
PCT	.0	.0	.0	.7	2.1	33.5	44.7	19.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0
	.7	.9	.9	.9	.4	.1	3.2	2.6	.0	1.1
	5.2	3.8	6.1	4.2	3.3	6.6	23.1	19.3	.0	7.7
	.3	.0	.2	1.1	.5	2.1	2.9	2.1	.0	.4
	6.2	4.7	7.5	6.5	4.1	8.8	29.1	23.9	.0	9.2

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	91	88	86	82	79	76	72	82.1	264
06E09	91	89	88	83	79	77	76	83.1	237
12E15	89	87	85	82	79	77	73	81.9	408
18E21	87	86	84	81	78	75	73	81.1	315
TOT	91	88	86	82	78	76	72	81.9	1224

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	1.3	.0	31.2	46.8	20.8	83	77
06E09	.0	1.4	10.1	46.4	30.4	11.6	79	69
12E15	.0	.0	.0	34.1	47.1	18.8	83	85
18E21	.0	.0	.0	21.8	50.6	27.6	85	87
TOT	0	2	7	104	141	64	83	318

MARCH

PERIOD: (PRIMARY) 1921-1973
(OVER-ALL) 1860-1973

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.8E

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	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	NO FOG
11/13	.0	.0	.0	.0	.0	.3	1	.0	.3
7/8	.0	.0	.0	.0	.3	.0	1	.0	.3
6	.0	.0	.0	.0	.3	.3	2	.0	.5
5	.0	.0	.0	.0	.5	.0	2	.0	.5
4	.0	.0	.0	.8	1.8	.5	12	.0	3.1
3	.0	.0	.0	.3	2.0	.0	9	.0	2.3
2	.0	.0	.0	5.3	2.8	.3	33	.0	8.4
1	.0	.0	.8	6.6	1.0	.0	33	.3	8.1
0	.0	.0	1.0	10.6	1.0	.0	61	.8	19.8
-1	.0	.0	2.0	12.7	.8	.0	61	.3	15.3
-2	.0	.0	4.1	17.8	.3	.0	87	.0	22.1
-3	.0	.0	2.5	3.8	.0	.0	25	.3	6.1
-4	.0	.0	4.8	3.1	.3	.0	32	.3	7.9
-5	.0	.5	1.0	.0	.0	.0	6	.0	1.5
-6	.0	.3	.3	.0	.0	.0	2	.0	.5
-7/-8	.0	.5	.8	.0	.0	.0	5	.0	1.3
-11/-13	.3	.0	.0	.0	.0	.0	1	.0	.3
TOTAL	1	5	68	271	43	5	393	7	386
PCT	.3	1.3	17.3	69.0	10.9	1.3	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	.0	1.2	.0	.0	.0	.0	1.2
1-2	.0	2.8	1.2	.0	.0	.0	4.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.9
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.0	2.2	.0	.0	.0	6.2

NE

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	.3	6.5	.0	.0	.0	.0	6.8
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	1.5	6.5	.0	.0	.0	.0	8.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9
1-2	.9	4.6	.0	.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	.9	5.6	.0	.0	.0	.0	6.5

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	1.5	1.2	.0	.0	.0	2.8
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.1	1.2	.0	.0	.0	4.3

PERIOD: (OVER-ALL) 1963-1973

MARCH

TABLE 18 (CONT)

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.8E

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	1.2	.0	.0	.0	.0	.0	1.2	.0	.3	.0	.0	.0	.0	.3
1-2	.0	1.2	.0	.0	.0	.0	1.2	.0	3.4	.0	.0	.0	.0	3.4
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	.0	1.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	1.2	.0	.0	.0	.0	2.5	.0	4.9	.3	.0	.0	.0	5.2

	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	4.3	.0	.0	.0	.0	4.3	1.2	1.5	1.2	.0	.0	.0	4.0	
1-2	.9	12.3	1.2	.0	.0	.0	14.5	.3	8.3	1.2	.0	.0	.0	9.9	
3-4	.0	4.6	8.6	.0	.0	.0	13.3	.0	.3	.9	.0	.0	.0	1.2	
5-6	.0	.0	1.2	.0	.0	.0	1.2	.0	.0	1.5	.0	.0	.0	1.5	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.9	21.3	11.1	.0	.0	.0	33.3	1.5	10.2	4.9	.0	.0	.0	16.7	82.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	22.0	9.8	1.2	.0	.0	.0	32.9	
1-2	2.4	40.2	4.9	.0	.0	.0	47.6	
3-4	.0	4.9	9.8	.0	.0	.0	14.6	
5-6	.0	1.2	3.7	.0	.0	.0	4.9	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	24.4	56.1	19.5	.0	.0	.0	100.0	82

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	8.2	38.5	13.9	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	77	2
6-7	.8	1.6	6.6	4.9	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	4
8-9	.0	.0	.0	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
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	.8	.8	.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	18.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	0
TOTAL	33	50	26	11	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	122	2
PCT	27.0	41.0	21.3	9.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1917-1972
(OVER-ALL) 1863-1972

AREA 0013 SOUTHEAST JAVA SEA
6.3S 113.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	4.5	4.5	.0	.0	.0	.0	.0	9.1	3.4	.0	.0	.0	.0	.0	.0	87.5
NE	4.5	.0	.0	.0	.0	.0	.0	4.5	.7	.0	3.0	.0	.0	.0	.0	91.8
E	4.4	1.9	.4	.0	.0	.0	.0	6.7	.6	6.1	3.0	.0	.0	.0	.0	84.4
SE	3.0	1.5	1.5	.0	.0	.0	.0	6.0	.2	5.2	3.0	.0	.0	.0	.0	86.6
S	4.5	.0	.0	.0	.0	.0	.0	4.5	.0	1.5	.0	.0	.0	.0	.0	93.9
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	4.4	.0	.0	.0	.0	.0	.0	4.4	.0	4.4	6.7	.0	.0	.0	.0	84.4
NW	5.1	10.1	.0	.0	.0	.0	.0	15.2	.0	5.1	2.5	.0	.0	.0	.0	77.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.0	.0	.0	.0	.0	.0	.0	3.0	.0	9.1	.0	.0	.0	.0	.0	90.9
TOT PCT	3.8	1.7	.5	.0	.0	.0	.0	6.0	.5	4.5	2.4	.0	.0	.0	.0	87.4
TOT OBS:	420															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER 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	2.9	1.9	.0	.0	.0	.0	.0	4.9	1.0	1.0	4.9	.0	.0	.0	.0	88.3
06&09	1.0	1.0	1.0	.0	.0	.0	.0	3.1	1.0	.0	2.1	.0	.0	.0	.0	93.8
12&15	6.3	.0	.8	.0	.0	.0	.0	7.1	.0	10.3	1.6	.0	.0	.0	.0	82.5
18&21	4.3	3.4	.9	.0	.0	.0	.0	8.5	.0	6.8	1.7	.0	.0	.0	.0	84.6
TOT PCT	3.8	1.6	.7	.0	.0	.0	.0	6.1	.5	5.0	2.5	.0	.0	.0	.0	86.9
TOT OBS:	442															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIR[illegible]ON BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	.3	.0	.0	.0		4.0	5.7	3.3	6.4	5.6	8.2	4.8	.8	3.8	1.3
NE	3.2	5.9	.5	.0	.0	.0		9.7	5.3	5.5	8.6	9.1	16.5	15.0	6.4	8.4	5.3
E	4.0	20.9	9.1	.0	.1	.0		30.1	7.6	28.8	30.0	34.4	32.4	31.8	30.4	33.2	23.2
SE	3.1	16.0	3.0	*	.0	.0		22.1	7.2	29.1	19.1	23.8	16.2	19.3	23.5	19.2	26.5
S	2.2	4.3	.6	*	.0	.0		7.2	5.7	8.7	7.3	1.9	2.6	4.0	10.8	5.5	13.4
SW	1.4	2.5	.5	.0	.0	.0		4.3	5.6	3.8	4.5	4.4	3.2	1.7	3.6	7.1	7.8
W	2.0	3.6	.7	.0	.0	.0		6.3	5.7	5.1	6.8	4.4	5.6	6.3	7.5	7.1	6.8
NW	1.8	3.0	.7	.0	.0	.0		5.5	6.0	3.6	10.0	4.1	9.4	6.0	3.3	5.1	3.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.9							10.9	.0	12.0	7.3	12.5	5.9	11.3	13.8	10.6	12.6
TOT OBS	372	734	142	1	1	0	1250		5.9	158	110	80	170	240	181	113	198
TOT PCT	29.8	58.7	11.4	.1	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.0	.8	.3	.0	.0		4.0	5.7	4.6	7.4	3.1	2.2
NE	7.0	2.6	.1	.0	.0		9.7	5.3	6.8	14.1	11.3	6.4
E	13.7	15.7	.7	.1	.0		30.1	7.6	29.3	33.0	31.2	26.8
SE	10.8	10.9	.4	.0	.0		22.1	7.2	25.0	18.6	21.1	23.9
S	5.0	2.1	*	.0	.0		7.2	5.7	8.1	2.4	6.9	10.5
SW	3.1	1.2	*	.0	.0		4.3	5.6	4.1	3.6	2.5	7.6
W	4.6	1.4	.2	.0	.0		6.3	5.7	5.8	5.2	6.8	6.9
NW	3.7	1.6	.2	.0	.0		5.5	6.0	6.3	7.7	4.9	3.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	10.9						10.9	.0	10.1	8.0	12.4	11.9
TOT OBS	772	453	24	1	0	1250		5.9	268	250	421	311
TOT PCT	61.8	36.2	1.9	.1	.0		100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1917-1972
(OVER-ALL) 1863-1972

AREA 0013 SOUTHEAST JAVA SEA
6.3S 113.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	10.1	22.4	48.9	18.3	.4	.0	.0	6.3	100.0	268
06&09	8.0	17.2	66.4	8.4	.0	.0	.0	6.0	100.0	250
12&15	12.4	19.2	60.6	7.6	.0	.2	.0	5.7	100.0	421
18&21	11.9	16.7	58.5	12.9	.0	.0	.0	6.0	100.0	311
TOT	136	236	734	142	1	1	0	5.9		1250
PCT	10.9	18.9	58.7	11.4	.1	.1	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.3	2.1	1.8	1.8		5.2
NE	1.7	2.0	2.4	1.8		4.5
E	13.4	10.2	12.3	1.7		3.6
SE	5.9	7.6	7.2	3.8		4.4
S	1.2	1.8	1.1	.6		3.9
SW	.6	.3	.0	1.8		6.1
W	.6	.0	2.4	.0		5.4
NW	.0	1.5	1.4	.0		5.0
VAR	.0	.0	.0	.0		.0
CALM	1.8	4.3	3.0	1.2		4.2
TOT OBS	42	49	52	21	164	4.2
TOT PCT	25.6	29.9	31.7	12.8	100.0	

TABLE 6

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

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.6	1.1	.0	.0	.0	.0	.0	4.4	
NE	.0	.0	.6	.6	.2	.0	.0	.0	.0	.0	6.6	
E	.0	.0	.0	.6	4.7	.0	.6	.0	.0	.0	31.7	
SE	.0	.0	.0	2.4	1.4	.0	.0	.0	.0	.0	20.7	
S	.0	.0	.0	.6	.0	.6	.0	.0	.0	.0	3.5	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	
W	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	2.4	
NW	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	2.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.6	.6	.0	.0	.0	.0	.0	9.1	
TOT OBS	0	0	1	9	14	1	2	0	0	0	137	164
TOT PCT	.0	.0	.6	5.5	8.5	.6	1.2	.0	.0	.0	83.5	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	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
* OR >2000	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
* OR >1000	10.8	11.4	11.4	11.4	11.4	11.4	11.4	11.4
* OR >600	13.2	15.6	16.8	16.8	16.8	16.8	16.8	16.8
* OR >300	13.2	16.2	17.4	17.4	17.4	17.4	17.4	17.4
* OR >150	13.2	16.2	17.4	17.4	17.4	17.4	17.4	17.4
* OR > 0	13.2	16.2	17.4	17.4	17.4	17.4	17.4	17.4
TOTAL	22	27	29	29	29	29	29	29

TOTAL NUMBER OF OBS: 167 PCT FREQ NH <5/8: 82.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
5.7	16.5	25.6	15.3	18.8	6.8	3.4	4.0	4.0	.0	176

APRIL

PERIOD: (PRIMARY) 1917-1972
(OVER-ALL) 1863-1972

AREA 0013 SOUTHEAST JAVA SEA
6.3S 113.0E

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	.1	.1	.0	.0	.2	
	TOT %	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.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	.2	.1	.4	.2	.0	.0	.0	.0	.0	.0	1.0	
	NO PCP	.0	.0	.3	1.4	.0	.0	.0	.0	.0	.0	1.7	
	TOT %	.2	.1	.7	1.6	.0	.0	.0	.0	.0	.0	2.6	
5<10	PCP	.0	.2	1.7	1.1	.4	.0	.2	.7	.0	.2	4.5	
	NO PCP	2.5	2.4	6.8	5.6	3.2	2.5	1.8	2.1	.0	2.4	29.3	
	TOT %	2.5	2.7	8.5	6.7	3.5	2.5	2.0	2.9	.0	2.6	33.8	
10+	PCP	.2	.0	.1	.1	.0	.0	.0	.0	.0	.0	.5	
	NO PCP	2.3	5.2	22.9	15.6	4.3	2.4	3.2	1.7	.0	5.2	62.9	
	TOT %	2.5	5.2	23.0	15.7	4.3	2.4	3.2	1.7	.0	5.2	63.3	
	TOT OBS												420
	TOT PCT	5.2	8.0	32.1	24.0	7.9	4.9	5.4	4.7	.0	7.9	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	.2	.1	.1	.0	.0	.0	.0	.4	
	4-10	.0	.0	.1	.1	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.1	.1	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.1	.2	.1	.1	.1	.1	.0	.0	.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	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	.1	*	.0	.0	.0	.0	.0	.1	.2	
	4-10	.1	.0	.1	.2	.0	.0	.1	.0	.0		.5	
	11-21	.0	.0	.0	.1	.1	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.0	.2	.3	.1	.0	.1	.0	.0	.1	.9	
2<5	0-3	.2	.0	.1	.5	.0	.1	.1	.0	.0	.2	1.2	
	4-10	.1	.1	.6	.9	.1	.0	.1	.0	.0		2.0	
	11-21	.0	.0	.1	*	.0	.0	.1	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.4	.1	.8	1.4	.1	.1	.3	.0	.0	.2	3.4	
5<10	0-3	.3	.2	.5	.4	.4	.2	.2	.6	.0	2.1	4.9	
	4-10	.9	1.1	3.2	2.6	1.3	1.0	.6	.7	.0		11.4	
	11-21	.1	.1	.9	.6	.1	.1	.2	.4	.0		2.6	
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	TOT %	1.3	1.5	4.7	3.6	1.8	1.3	1.1	1.6	.0	2.1	19.0	
10+	0-3	.8	2.7	3.3	1.9	2.1	.9	2.3	1.4	.0	8.7	24.2	
	4-10	1.4	4.3	16.9	11.5	2.8	1.9	3.0	2.9	.0		44.8	
	11-21	.2	.2	3.6	2.1	.4	.3	.1	.2	.0		7.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	2.4	7.2	23.8	15.5	5.3	3.1	5.4	4.6	.0	8.7	76.1	
	TOT OBS												815
	TOT PCT	4.2	8.8	29.5	21.0	7.4	4.6	7.0	6.2	.0	11.2	100.0	

APRIL

PERIOD: (PRIMARY) 1917-1972
(OVER-ALL) 1863-1972

AREA 0013 SOUTHEAST JAVA SEA
6.3S 113.0E

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 5499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00Z03	.0	.0	.0	8.2	4.1	2.0	2.0	.0	.0	.0	16.3	83.7	49
06Z09	.0	.0	.0	4.7	9.3	.0	2.3	.0	.0	.0	16.3	83.7	43
12Z15	.0	.0	2.9	.0	5.7	.0	2.9	.0	.0	.0	11.4	88.6	35
18Z21	.0	.0	.0	6.5	13.0	.0	2.2	.0	.0	.0	21.7	78.3	46
TOT	0	0	1	9	14	1	4	0	0	0	29	144	173
PCT	.0	.0	.6	5.2	8.1	.6	2.3	.0	.0	.0	16.8	83.2	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
00Z03	1.2	.0	.0	1.8	21.1	75.9	166
06Z09	1.2	.0	1.2	4.2	15.2	78.2	165
12Z15	.3	.0	1.4	4.4	19.9	74.0	296
18Z21	.0	.0	1.4	2.4	21.7	74.5	212
TOT	5	0	9	28	165	632	839
PCT	.6	.0	1.1	3.3	19.7	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 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00Z03	.0	.0	8.5	8.5	83.0	47
06Z09	.0	.0	4.8	11.9	83.3	42
12Z15	.0	2.9	2.9	8.8	88.2	34
18Z21	.0	.0	6.8	15.9	77.3	44
TOT	0	1	10	19	138	167
PCT	.0	.6	6.0	11.4	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
90/94	.0	.0	.0	.0	.4	.4	.0	.0	2	.8
85/89	.0	.0	.0	.0	1.1	13.0	4.6	.4	50	19.2
80/84	.0	.0	.0	.0	.4	26.8	36.4	13.0	200	76.6
75/79	.0	.0	.0	.0	.0	.8	2.3	.4	9	3.4
TOTAL	0	0	0	0	5	107	113	36	261	100.0
PCT	.0	.0	.0	.0	1.9	41.0	43.3	13.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.4	.4	.0	.0	.0	.0	.0	.0
.6	3.0	7.5	3.1	.7	.0	1.9	.8	.0	1.5
4.1	5.0	25.2	21.5	7.2	3.4	3.1	3.0	.0	4.2
.3	.1	.4	.8	.0	.6	.2	1.1	.0	.0
5.0	8.0	33.4	25.9	7.9	4.0	5.2	4.9	.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
00Z03	91	88	87	83	79	77	75	83.2	42
06Z09	93	91	89	84	79	79	77	84.2	3
12Z15	92	87	85	83	80	79	73	82.8	
18Z21	89	86	84	82	79	77	75	81.8	
TOT	93	89	86	83	79	77	73	82.9	1237

TABLE 16

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	45.5	45.5	9.1	81	66
06Z09	.0	.0	9.3	53.7	27.8	9.3	78	54
12Z15	.0	.0	4.2	35.2	47.9	12.7	82	71
18Z21	.0	.0	1.1	28.1	49.4	21.3	84	89
TOT	0	0	9	109	123	39	81	280

APRIL

PERIOD: (PRIMARY) 1917-1972
(OVER-ALL) 1863-1972

AREA 0013 SOUTHEAST JAVA SEA
6.35 113.0E

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 THE DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.3	.0	1	.0	.3
5	.0	.0	.0	.0	.3	1	.0	.3
4	.0	.0	.6	1.7	.0	8	.0	2.2
3	.0	.0	.6	.6	.6	6	.3	1.4
2	.0	.0	2.8	3.9	.3	25	.0	7.0
1	.0	.0	5.9	3.9	.0	35	.3	9.5
0	.0	1.4	17.0	3.4	.3	79	.6	21.5
-1	.0	.8	11.2	2.0	.0	50	1.1	12.3
-2	.0	1.1	18.4	2.0	.0	77	.3	21.2
-3	.0	.6	5.6	.3	.0	23	.3	6.1
-4	.3	2.8	4.5	.0	.0	27	.0	7.5
-5	.0	2.5	2.8	.0	.0	19	.0	5.3
-6	.0	.8	.6	.0	.0	5	.0	1.4
-7/-8	.0	.6	.0	.0	.0	2	.0	.6
TOTAL	1		250		5		10	348
		38		64		358		
PCT	.3	10.6	69.8	17.9	1.4	100.0	2.8	97.2

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.0	.0	.0	.0	.8
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.8	.0	.0	.0	.0	.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	3.5	.0	.0	.0	.0	3.5
3-4	.0	1.3	.0	.0	.0	.0	1.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.3	.0	.0	.0	.0	7.3

E

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	1.1	14.8	4.0	.0	.0	.0	19.9
3-4	.0	7.5	8.1	.0	.0	.0	15.6
5-6	1.1	1.1	1.1	.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	2.2	26.3	13.2	.0	.0	.0	41.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3
1-2	.0	23.9	.3	.0	.0	.0	24.2
3-4	.0	5.1	2.7	.0	.0	.0	7.8
5-6	.0	2.2	2.2	.0	.0	.0	4.3
7	.0	.0	1.1	.0	.0	.0	1.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	32.5	6.2	.0	.0	.0	38.7

PERIOD: (OVER-ALL) 1963-1972

APRIL

TABLE 18 (CONT)

AREA 0013 SOUTHEAST JAVA SEA
6.3S 113.0E

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

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

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	1.1	.0	.0	.0	.0	.0	1.1	.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	1.1	.0	.0	.0	1.1	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.1	.0	.0	.0	.0	.0	1.1	.0	.0	1.1	.0	.0	.0	1.1	93.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.5	7.5	.0	.0	.0	.0	15.1	
1-2	1.1	45.2	4.3	.0	.0	.0	50.5	
3-4	.0	14.0	11.8	.0	.0	.0	25.8	
5-6	1.1	3.2	3.2	.0	.0	.0	7.5	
7	.0	.0	1.1	.0	.0	.0	1.1	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.7	69.9	20.4	.0	.0	.0	100.0	93

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	29.0	21.9	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	97	2
6-7	.0	1.3	5.2	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	3
8-9	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
10-11	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	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	23.9	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	0
TOTAL	49	54	42	9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	155	2
PCT	31.6	34.8	27.1	5.8	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1918-1972
(OVER-ALL) 1860-1972

AREA 0013 SOUTHEAST JAVA SEA
6.3S 113.0E

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	8.2	8.2	.0	.0	.0	.0	.0	83.7
NE	.0	4.7	1.2	.0	.0	.0	.0	5.9	.0	2.4	2.4	.0	1.2	.0	.0	88.2
E	1.0	2.7	.2	.0	.0	.0	.0	4.0	.9	5.1	.5	.0	.2	.0	.0	89.4
SE	2.0	2.0	1.3	.0	.0	.0	.0	5.5	.1	2.4	1.0	.0	.0	.0	.0	91.0
S	.0	1.5	.0	.0	.0	.0	.0	1.5	.0	6.1	.0	.0	.0	.0	.0	92.4
SW	.0	8.7	.0	.0	.0	.0	.0	8.7	.0	.0	.0	.0	.0	.0	.0	91.3
W	.0	.0	7.4	.0	.0	.0	.0	7.4	.0	.0	14.8	.0	.0	.0	.0	77.8
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	8.3	.0	.0	.0	.0	8.3	.0	8.3	8.3	.0	.0	.0	.0	75.0
TOT PCT	1.1	2.4	1.1	.0	.0	.0	.0	4.6	.6	3.7	1.3	.0	.2	.0	.0	89.6
TOT OBS:	539															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER 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	2.2	.7	.0	.0	.0	.0	5.1	.0	.7	.7	.0	.7	.0	.0	92.8
06&09	1.5	4.5	.0	.0	.0	.0	.0	6.0	1.5	.0	1.5	.0	.0	.0	.0	91.0
12&15	1.2	.0	1.7	.0	.0	.0	.0	2.9	.6	7.5	2.3	.0	.0	.0	.0	88.7
18&21	2.9	5.8	1.4	.0	.0	.0	.0	10.1	.0	7.2	2.2	.0	.0	.0	.0	81.2
TOT PCT	1.9	2.9	1.0	.0	.0	.0	.0	5.8	.5	4.1	1.7	.0	.2	.0	.0	87.8
TOT OBS:	583															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	.2	.1	.0	.0		2.1	6.6	1.8	4.9	2.0	3.0	1.2	.8	4.0	1.6
NE	1.7	6.3	1.0	.0	.0	.0		9.0	6.5	6.3	11.7	6.5	20.2	11.9	6.8	7.3	2.1
E	3.2	23.7	8.2	.0	.0	.0		35.2	8.3	30.1	30.8	32.1	39.6	41.7	36.1	39.9	29.9
SE	2.9	20.9	8.1	.1	.0	.0		31.9	8.3	39.2	32.1	34.8	23.8	28.6	33.1	34.4	31.5
S	2.0	5.9	.7	.1	.0	.0		8.8	6.5	11.7	7.1	10.0	3.9	5.9	9.1	2.8	16.1
SW	1.1	2.5	.3	.0	.0	.0		3.9	6.2	4.4	2.4	4.1	.6	2.6	4.0	2.4	9.1
W	.8	1.9	.3	.0	.0	.0		2.9	5.5	3.1	4.0	2.0	2.1	2.0	3.0	4.2	3.3
NW	.1	1.7	.3	.0	.0	.0		2.1	6.6	1.8	3.2	2.0	3.9	2.2	1.5	1.2	1.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.1							4.1	.0	1.6	4.0	6.5	3.0	4.1	5.6	3.8	5.1
TOT OBS	228	880	263	3	0	0	1374		7.4	193	126	123	168	246	198	106	214
TOT PCT	16.6	64.0	19.1	.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	1.3	.7	.1	.0	.0		2.1	6.6	3.0	2.6	1.0	2.4
NE	5.3	3.7	.1	.0	.0		9.0	6.5	8.5	14.4	9.6	3.8
E	12.8	21.7	.7	.0	.0		35.2	8.3	30.3	38.4	39.2	33.2
SE	12.5	18.5	.9	.0	.0		31.9	8.3	36.4	28.4	30.5	32.5
S	5.2	3.2	.4	.0	.0		8.8	6.5	9.9	6.4	7.3	11.7
SW	2.4	1.4	.1	.0	.0		3.9	6.2	3.6	2.1	3.3	6.9
W	2.1	.7	.0	.0	.0		2.9	5.5	3.4	2.1	2.5	3.6
NW	1.4	.7	.0	.0	.0		2.1	6.6	2.4	3.1	1.9	1.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.1						4.1	.0	2.5	4.5	4.7	4.7
TOT OBS	647	695	32	0	0	1374		7.4	319	291	444	320
TOT PCT	47.1	50.6	2.3	.0	.0		100.0		100.0	100.0	100.0	100.0

MAY

PERIOD: (PRIMARY) 1918-1972
(OVER-ALL) 1860-1972

AREA 0013 SOUTHEAST JAVA SEA
6.3S 113.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.5	17.2	58.9	20.7	.6	.0	.0	7.4	100.0	319
06&09	4.5	8.6	66.0	20.6	.3	.0	.0	7.5	100.0	291
12&15	4.7	11.9	66.4	16.9	.0	.0	.0	7.3	100.0	444
18&21	4.7	11.9	64.1	19.4	.0	.0	.0	7.5	100.0	320
TOT	57	171	880	263	3	0	0	7.4		1374
PCT	4.1	12.4	64.0	19.1	.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	.7	.0	1.1	.7		5.1
NE	.8	1.5	1.1	1.3		5.4
E	16.0	15.2	12.3	3.9		3.9
SE	9.5	12.1	12.3	5.2		4.3
S	.5	.0	.7	.7		5.6
SW	.0	.0	.0	.0		.0
W	.0	.0	.7	.7		6.5
NW	.0	.0	.7	.0		7.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	2.6	.0		7.0
TOT OBS	42	44	48	19	153	4.3
TOT PCT	27.5	28.8	31.4	12.4	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	.5	.0	.7	.0	.0	.0	1.3	
NE	.0	.0	.0	.8	.8	.0	.0	.0	.0	.0	3.1	
E	.0	.0	.0	2.5	7.8	2.5	.0	.0	.7	.0	34.0	
SE	.0	.0	.7	5.2	3.9	.2	.0	.0	.0	.0	29.1	
S	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	1.1	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
W	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	
NW	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	2.0	
TOT OBS	1	0	1	15	21	4	1	0	1	0	109	153
TOT PCT	.7	.0	.7	9.8	13.7	2.6	.7	.0	.7	.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	.6	.6	.6	.6	.6	.6	.6	.6
* OR >5000	.6	.6	.6	.6	.6	.6	.6	.6
* OR >3500	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
* OR >2000	4.4	5.0	5.0	5.0	5.0	5.0	5.0	5.0
* OR >1000	8.2	15.7	18.2	18.2	18.2	18.2	18.2	18.2
* OR >600	11.3	23.9	26.4	27.0	27.0	27.0	27.0	27.7
* OR >300	11.3	24.5	27.0	27.7	27.7	27.7	27.7	28.3
* OR >150	11.3	24.5	27.0	27.7	27.7	27.7	27.7	28.3
* OR > 0	11.3	24.5	27.0	28.3	28.3	28.3	28.3	28.9
TOTAL	18	39	43	45	45	45	45	46

TOTAL NUMBER OF OBS: 159

PCT FREQ NH <5/8: 71.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
4.7	14.2	20.7	17.8	13.6	5.3	10.7	5.3	7.1	.6	169

PERIOD: (PRIMARY) 1918-1972
(OVER-ALL) 1860-1972

AREA 0013 SOUTHEAST JAVA SEA
6.3S 113.0E

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
	PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
<1/2	NO PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	.4	
	TOT %	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	.4	
	PCP	.0	.0	.1	.5	.0	.0	.2	.0	.0	.2	.9	
1<2	NO PCP	.1	.2	.4	.0	.0	.0	.0	.0	.0	.0	.7	
	TOT %	.1	.2	.5	.5	.0	.0	.2	.0	.0	.2	1.7	
	PCP	.0	.0	.3	.6	.0	.0	.0	.0	.0	.0	.9	
2<5	NO PCP	.0	.4	.9	1.2	.4	.0	.0	.0	.0	.0	2.8	
	TOT %	.0	.4	1.2	1.8	.4	.0	.0	.0	.0	.0	3.7	
	PCP	.0	.5	.3	.6	.1	.2	.0	.0	.0	.0	1.7	
5<10	NO PCP	.8	2.6	15.3	16.5	2.2	.8	1.6	1.4	.0	.9	42.1	
	TOT %	.8	3.0	15.6	17.2	2.3	1.0	1.6	1.4	.0	.9	43.8	
	PCP	.0	.0	.8	.1	.0	.0	.0	.0	.0	.0	.9	
10+	NO PCP	1.3	4.3	19.5	17.2	3.4	.1	.7	.7	.0	.9	49.2	
	TOT %	1.3	4.3	20.3	17.3	3.4	1.1	.7	.7	.0	.9	50.1	
	TOT OBS												539
	TOT PCT	2.3	7.9	37.5	37.3	6.1	2.1	2.5	2.1	.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
	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
<1/2	4-10	.0	.2	.2	.3	.1	.0	.0	.0	.0		.8	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0		.1	
	TOT %	.0	.2	.2	.4	.1	.0	.1	.0	.0	.0	1.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
1/2<1	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	.1	.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
1<2	4-10	.1	.1	.3	.3	.0	.0	.2	.0	.0		1.1	
	11-21	.0	.1	.1	.2	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.2	.5	.5	.0	.0	.2	.0	.0	.1	1.6	
	0-3	.0	.2	.2	.1	.0	.0	.0	.0	.0	.1	.6	
2<5	4-10	.0	.2	.7	1.1	.3	.0	.0	.0	.0		2.4	
	11-21	.0	.1	.0	.5	.0	.0	.0	.0	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.6	.9	1.6	.3	.0	.0	.0	.0	.1	3.5	
	0-3	.1	.4	.4	1.0	.0	.0	.3	.1	.0	.7	3.0	
5<10	4-10	.4	1.3	5.7	6.3	1.4	.6	.8	.7	.0		17.0	
	11-21	.1	.3	3.8	3.6	.1	.2	.1	.2	.0		8.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.6	1.9	9.9	10.9	1.4	.7	1.1	.9	.0	.7	28.2	
	0-3	.5	1.4	2.3	1.9	1.0	.4	.2	.1	.0	1.8	9.4	
10+	4-10	.8	3.6	18.1	14.2	3.0	1.6	.7	.7	.0		42.6	
	11-21	.1	.7	5.9	5.9	.5	.0	.1	.1	.0		13.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	1.4	5.7	26.3	22.0	4.5	2.0	.9	.9	.0	1.8	69.5	
	TOT OBS												880
	TOT PCT	2.1	8.6	37.7	35.5	6.3	2.7	2.4	1.8	.0	2.8	100.0	

MAY

PERIOD: (PRIMARY) 1918-1972
(OVER-ALL) 1860-1972

AREA 0013 SOUTHEAST JAVA SEA
6.3S 113.0E

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
00Z03	.0	.0	.0	6.0	24.0	.0	.0	.0	.0	.0	30.0	70.0	50
06Z09	.0	.0	.0	12.5	8.9	7.1	1.8	.0	1.8	.0	32.1	67.9	56
12Z15	.0	.0	.0	6.9	6.9	.0	.0	.0	.0	.0	13.8	86.2	29
18Z21	3.2	.0	3.2	9.7	6.5	6.5	.0	.0	.0	.0	29.0	71.0	31
TOT	1	0	1	15	21	6	1	0	1	0	46	120	166
PCT	.6	.0	.6	9.0	12.7	3.6	.6	.0	.6	.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
00Z03	1.0	.5	1.0	2.1	33.2	62.2	193
06Z09	1.6	.5	1.6	3.8	24.6	67.8	183
12Z15	.6	.3	1.8	4.9	28.6	63.7	325
18Z21	.9	.4	1.3	1.8	32.7	62.8	223
TOT	7	4	14	31	275	591	924
PCT	1.0	.4	1.5	3.4	29.8	64.0	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	10.2	22.4	67.3	49
06Z09	1.8	1.8	16.1	16.1	67.9	56
12Z15	.0	.0	8.0	8.0	84.0	25
18Z21	3.4	6.9	20.7	10.3	69.0	29
TOT	2	3	22	25	112	159
PCT	1.3	1.9	13.8	15.7	70.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	1.5	.0	.3	.0	6	1.8
85/89	.0	.0	.0	.3	2.6	9.1	4.1	1.2	59	17.4
80/84	.0	.0	.0	.0	.9	19.4	44.7	12.4	203	97.4
75/79	.0	.0	.0	.0	.3	.0	.6	2.6	12	3.5
TOTAL	0	0	0	1	18	97	169	55	340	100.0
PCT	.0	.0	.0	.3	5.3	28.5	49.7	16.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.4	.7	.1	.3	.0	.0	.0	.0	.3
	.2	1.0	8.6	6.0	.7	.0	.0	.0	.0	.9
	1.4	4.9	28.8	31.3	3.2	2.1	1.9	2.3	.0	1.5
	.4	.3	.4	1.3	.0	.0	.9	.1	.0	.0
	2.1	6.5	38.6	38.8	4.2	2.1	2.8	2.4	.0	2.6

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00Z03	93	89	87	83	80	77	72	83.2	306
06Z09	95	93	90	84	80	76	75	84.2	286
12Z15	92	87	85	83	80	77	72	82.6	450
18Z21	85	84	84	82	78	75	72	81.7	331
TOT	95	90	87	83	79	76	72	82.8	1373

TABLE 16

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	3.6	32.1	44.0	20.2	83	84
06Z09	.0	1.2	16.5	40.0	31.8	10.6	78	85
12Z15	.0	.0	2.0	24.8	56.4	16.8	83	101
18Z21	.0	.0	1.0	14.6	62.1	22.3	85	103
TOT	0	1	20	101	185	66	82	373

PERIOD: (PRIMARY) 1918-1972
(OVER-ALL) 1860-1972

AREA 0013 SOUTHEAST JAVA SEA
6.3S 113.0E

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	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	.0	.0	.8	3	.0	.8
7/8	.0	.0	.0	.0	.0	.5	.0	2	.0	.5
5	.0	.0	.0	.0	1.0	.3	.0	5	.0	1.3
4	.0	.0	.0	.5	1.5	.0	.0	8	.0	2.0
3	.0	.0	.0	1.0	2.6	.0	.0	14	.0	3.6
2	.0	.0	.3	4.3	4.6	.0	.0	36	.0	9.2
1	.0	.0	.0	4.9	3.8	.8	.0	37	.3	9.2
0	.0	.0	1.0	16.1	3.1	.8	.0	82	.0	21.0
-1	.0	.0	.5	10.0	1.3	.0	.0	46	.0	11.8
-2	.5	.5	1.5	19.9	1.3	.0	.0	93	.8	23.0
-3	.0	.0	1.5	4.3	.0	.0	.0	23	.0	5.9
-4	.3	.0	2.0	3.3	.0	.0	.0	22	.3	5.4
-5	.0	.8	1.5	.8	.0	.0	.0	12	.0	3.1
-6	.0	.5	1.0	.3	.0	.0	.0	6	.0	1.5
-7/-8	.0	.0	.0	.5	.0	.0	.0	2	.0	.5
TOTAL	3	6	37	258	75	9	3	391	5	386
PCT	.8	1.5	9.5	66.0	19.2	2.3	.8	100.0	1.3	98.7

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

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

N

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

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.8	.0	.0	.0	.0	2.5
1-2	.0	1.0	.0	.0	.0	.0	1.0
3-4	.0	.7	.0	.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	.7	3.5	.2	.0	.0	.0	4.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	6.6	3.0	.0	.0	.0	9.6
1-2	.0	10.1	12.4	.0	.0	.0	22.5
3-4	.0	4.5	7.0	.0	.0	.0	11.4
5-6	.0	.0	3.5	.0	.0	.0	3.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	21.2	25.8	.0	.0	.0	47.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	5.6	1.0	.0	.0	.0	7.3
1-2	.0	4.8	10.8	.0	.0	.0	15.6
3-4	.0	1.5	11.6	.0	.0	.0	13.1
5-6	.0	.0	3.6	.0	.0	.0	3.6
7	.0	.0	1.3	.0	.0	.0	1.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	11.9	28.3	.0	.0	.0	40.9

MAY

PERIOD: (OVER-ALL) 1963-1972

TABLE 18 (CONT)

AREA 0013 SOUTHEAST JAVA SEA
6.3S 113.0E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7	.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
20-22	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.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	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.7	.0	.0	.0	.0	.7	.0	2.2	.0	.0	.0	.0	2.2	
1-2	.0	.7	.0	.0	0	.0	.7	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.3	.0	.0	.0	.0	1.3	.0	2.2	.0	.0	.0	.0	2.2	98.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.3	19.2	4.0	.0	.0	.0	26.5	
1-2	.0	16.6	23.2	.0	.0	.0	39.7	
3-4	.0	6.6	18.5	.0	.0	.0	25.2	
5-6	.0	.0	7.3	.0	.0	.0	7.3	
7	.0	.0	1.3	.0	.0	.0	1.3	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.3	42.4	54.3	.0	.0	.0	100.0	151

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	36.2	19.5	5.2	2.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	151	2
6-7	.0	1.1	3.4	2.3	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	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	.6	.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	3.4	.0	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	1
TOTAL	46	66	41	14	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	174	2
PCT	26.4	37.9	23.6	8.0	3.4	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1916-1972
(OVER-ALL) 1861-1972

AREA 0013 SOUTHEAST JAVA SEA
6.2S 112.9E

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	9.1	4.5	.0	.0	.0	.0	.0	13.6	.0	.0	.0	.0	.0		.0	86.4
NE	.0	6.5	.0	.0	.0	.0	.0	6.5	.0	6.5	.0	.0	.0		.0	87.1
E	1.3	2.7	.0	.0	.0	.0	.0	4.0	.5	3.8	3.8	.0	2.2		.0	86.0
SE	2.0	1.2	1.0	.0	.0	.0	.0	3.7	.5	2.0	1.5	.0	1.0		.0	92.4
S	4.2	.0	.0	.0	.0	.0	.0	4.2	.0	7.0	1.4	.0	2.8		.0	86.0
SW	.0	17.0	.0	.0	.0	.0	.0	17.0	.0	.0	4.3	.0	.0		.0	78.7
W	.0	18.2	.0	.0	.0	.0	.0	18.2	.0	18.2	.0	.0	.0		.0	63.6
NW	.0	6.1	.0	.0	.0	.0	.0	6.1	.0	.0	.0	.0	.0		.0	93.9
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	1.8	2.7	.4	.0	.0	.0	.0	4.7	.4	3.3	2.2	.0	1.4		.0	88.6
TOT OBS:	490															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.7	1.7	.9	.0	.0	.0	.0	3.5	.0	.0	2.6	.0	1.7		.0	92.2
06&09	.8	2.5	.0	.0	.0	.0	.0	3.3	.8	1.7	2.5	.0	3.3		.0	88.3
12&15	1.4	3.4	.0	.0	.0	.0	.0	4.8	.0	2.8	2.8	.0	1.4		.0	88.3
18&21	3.4	3.4	.8	.0	.0	.0	.0	7.6	.8	8.5	1.7	.0	.0		.0	85.9
TOT PCT	1.8	2.8	.4	.0	.0	.0	.0	4.8	.4	3.2	2.4	.0	1.6		.0	88.2
TOT OBS:	498															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	1.4	.1	.0	.0	.0		2.0	5.0	1.0	1.5	1.7	4.4	3.6	.6	.8	1.3
NE	.8	5.7	1.0	*	*	.0		7.6	7.3	2.2	7.4	3.2	19.1	11.4	5.0	8.9	2.9
E	2.0	27.1	11.8	.2	.1	.0		38.2	9.5	26.1	34.7	36.6	39.6	42.6	38.3	40.1	30.1
SE	1.9	21.6	13.0	.2	.0	.0		38.7	9.6	54.8	31.7	42.7	25.2	30.6	37.7	32.9	39.1
S	1.6	5.9	1.6	.1	.0	.0		8.9	7.7	9.5	10.4	7.1	3.7	5.2	10.2	8.5	16.5
SW	.6	1.9	.5	.1	.0	.0		3.2	7.2	2.7	3.5	3.4	.3	1.0	4.1	3.0	7.4
W	.4	.7	.3	.0	.0	.0		1.5	6.8	1.9	4.0	1.7	1.7	.9	1.8	.4	.5
NW	.3	.6	.2	.0	.0	.0		1.2	6.8	1.1	2.0	.9	2.7	.9	.0	2.0	.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.8							2.8	.0	.6	5.0	2.6	3.4	3.8	2.9	4.0	1.6
TOT OBS	132	743	355	8	1	0	1239		8.7	156	101	116	149	234	171	124	188
TOT PCT	10.7	60.0	28.7	.6	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.7	.3	.0	.0	.0		2.0	5.0	1.2	3.2	2.3	1.1
NE	4.1	3.3	.2	*	.0		7.6	7.3	4.3	12.2	8.7	5.0
E	9.5	25.0	1.7	.1	.0		36.2	9.5	29.5	38.3	40.8	34.1
SE	10.1	24.4	2.2	.0	.0		36.7	9.6	45.7	32.8	33.6	36.6
S	4.3	4.2	.4	.0	.0		8.9	7.7	9.8	5.2	7.3	13.3
SW	2.0	1.0	.1	.1	.0		3.2	7.2	3.0	1.7	2.3	5.7
W	.8	.6	*	.0	.0		1.5	6.8	2.7	1.7	1.2	.5
NW	.7	.4	*	.0	.0		1.2	6.8	1.5	1.9	.5	1.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.8						2.8	.0	2.3	3.0	3.2	2.6
TOT OBS	446	733	58	2	0	1239		8.7	257	265	405	312
TOT PCT	36.0	59.2	4.7	.2	.0		100.0		100.0	100.0	100.0	100.0

JUNE

PERIOD: (PRIMARY) 1916-1972
(OVER-ALL) 1861-1972

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.3	8.9	56.0	31.9	.8	.0	.0	8.8	100.0	257
06&09	3.0	8.7	54.7	32.8	.4	.4	.0	8.9	100.0	265
12&15	3.2	6.7	63.5	26.2	.5	.0	.0	8.6	100.0	405
18&21	2.6	7.7	63.1	25.6	1.0	.0	.0	8.6	100.0	312
TOT	35	97	743	355	8	1	0	8.7		1239
PCT	2.8	7.8	60.0	28.7	.6	.1	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.5		8.0
NE	.7	.7	.5	.0		3.1
E	13.8	8.5	12.0	.5		3.5
SE	18.2	19.9	12.0	2.2		3.4
S	3.4	.4	2.2	.4		3.6
SW	.0	.0	.1	.1		7.0
W	.0	.0	.8	.5		7.1
NW	.0	.0	1.2	.0		5.6
VAR	.0	.0	.0	.0		.0
CALM	.5	.0	.0	.5		4.5
TOT OBS	67	54	53	9	183	3.5
TOT PCT	36.6	29.5	29.0	4.9	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	.0	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	
E	.0	.0	.0	1.5	4.6	.0	1.1	.0	.0	.0	27.6	
SE	.0	.0	.0	2.9	3.0	.0	.0	.0	.5	.0	45.9	
S	.0	.0	.0	.5	.4	.5	.0	.0	.0	.0	4.9	
SW	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	
W	.0	.0	.4	.5	.0	.0	.0	.0	.0	.0	.4	
NW	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	
TOT OBS	0	0	1	11	15	2	2	0	1	0	151	183
TOT PCT	.0	.0	.5	6.0	8.2	1.1	1.1	.0	.5	.0	82.5	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >500YD	* OR >0
* OR >6500	.5	.5	.5	.5	.5	.5	.5	.5
* OR >5000	.5	.5	.5	.5	.5	.5	.5	.5
* OR >3500	1.1	1.6	1.6	1.6	1.6	1.6	1.6	1.6
* OR >2000	2.2	2.7	2.7	2.7	2.7	2.7	2.7	2.7
* OR >1000	4.4	11.0	11.0	11.0	11.0	11.0	11.0	11.0
* OR >600	7.1	17.0	17.0	17.0	17.0	17.0	17.0	17.0
* OR >300	7.1	17.6	17.6	17.6	17.6	17.6	17.6	17.6
* OR >150	7.1	17.6	17.6	17.6	17.6	17.6	17.6	17.6
* OR > 0	7.1	17.6	17.6	17.6	17.6	17.6	17.6	17.6
TOTAL	13	32	32	32	32	32	32	32

TOTAL NUMBER OF OBS: 182 PCT FREQ NH <5/8: 82.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
11.1	22.2	21.2	17.5	10.1	4.8	5.8	5.8	1.6	.0	189

JUNE

PERIOD: (PRIMARY) 1916-1972
(OVER-ALL) 1861-1972

AREA 0013 SOUTHEAST JAVA SEA
6.2S 112.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR 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	.8	.4	.2	.0	.0	.0	.0	.0	1.4	
	TOT %	.0	.0	.8	.4	.2	.0	.0	[illegible]	.0	.0	1.4	
	PCP	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
2<5	NO PCP	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.6	
	TOT %	.0	.0	.5	.3	.0	.0	.0	.0	.0	.0	.8	
	PCP	.3	.3	.9	.8	.2	.0	.2	.1	.0	.0	2.9	
5<10	NO PCP	.9	2.0	16.6	16.0	3.0	1.5	.6	.3	.0	.4	41.4	
	TOT %	1.2	2.3	17.6	16.9	3.2	1.5	.8	.4	.0	.4	44.3	
	PCP	.0	.0	.4	.7	.1	.4	.0	.0	.0	.0	1.6	
10+	NO PCP	1.0	2.5	16.5	23.1	3.8	.5	.4	1.3	.0	.8	51.8	
	TOT %	1.0	2.5	19.0	23.8	3.9	.0	.4	1.3	.0	.8	53.5	
	TOT OBS												4R8
	TOT PCT	2.3	4.8	37.9	41.3	7.3	2.4	1.1	1.7	.0	1.2	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
<1/2	4-10	.0	.0	.3	.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	.3	.4	.1	.0	.0	.0	.0	.0	.9	
	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	.1	.0	.0	.0	.0	.0	.1	
1<2	4-10	.0	.0	.2	.1	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.5	.2	.0	.0	.0	.0	.0		.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.7	.3	.1	.0	.0	.0	.0	.0	1.1	
	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
2<5	4-10	.0	.4	.2	.1	.1	.0	.0	.0	.0		.7	
	11-21	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.4	.3	.2	.1	.0	.0	.0	.0	.0	1.0	
	0-3	.0	.1	.4	.3	.3	.0	.0	.0	.0	.2	1.4	
5<10	4-10	.6	1.4	4.6	4.3	1.4	.8	.2	.2	.0		13.5	
	11-21	.1	.4	6.5	8.0	.1	.2	.2	.0	.0		13.4	
	22+	.0	*	.1	.0	.1	.0	.0	.0	.0		.2	
	TOT %	.7	1.8	11.6	10.6	1.9	.9	.5	.2	.0	.2	28.6	
	0-3	.6	.7	1.7	1.6	1.1	.4	.3	.5	.0	2.5	9.3	
10+	4-10	.7	3.4	17.5	16.4	3.5	1.1	.2	.4	.0		43.2	
	11-21	.0	.2	5.8	8.8	1.0	.1	.0	.0	.0		15.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	1.2	4.3	25.0	26.8	5.6	1.6	.5	.8	.0	2.5	68.4	
	TOT OBS												805
	TOT PCT	2.0	6.6	37.9	38.4	7.9	2.6	.9	1.1	.0	2.7	100.0	

JUNE

PERIOD: (PRIMARY) 1916-1972
(OVER-ALL) 1861-1972

AREA 0013 SOUTHEAST JAVA SEA
6.2S 112.9E

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	.0	1.8	5.4	7.1	1.8	.0	.0	.0	.0	16.1	83.9	56
06Z09	.0	.0	.0	5.3	12.3	.0	1.8	.0	.0	.0	19.3	80.7	57
12Z15	.0	.0	.0	6.3	3.1	.0	.0	.0	3.1	.0	12.5	87.5	32
18Z21	.0	.0	.0	7.1	7.1	2.4	2.4	.0	.0	.0	19.0	81.0	42
TOT	0	0	1	11	15	2	2	0	1	0	32	155	187
PCT	.0	.0	.5	5.9	8.0	1.1	1.1	.0	.5	.0	17.1	82.9	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
00Z03	1.2	.0	1.8	1.8	26.6	68.6	169
06Z09	1.2	.0	2.3	1.2	30.1	65.3	173
12Z15	.4	.0	.7	.7	25.7	72.4	272
18Z21	1.0	.0	.5	.5	33.2	64.8	199
TOT	7	0	10	8	233	555	813
PCT	.9	.0	1.2	1.0	28.7	68.3	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	1.8	7.3	9.1	83.6	55
06Z09	.0	.0	5.5	14.5	80.0	55
12Z15	.0	.0	6.3	6.3	87.5	32
18Z21	.0	.0	7.5	12.5	80.0	40
TOT	0	1	12	20	150	182
PCT	.0	.5	6.6	11.0	82.4	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	.3	.0	.0	3	.9
85/89	.0	.0	.0	.3	1.4	2.6	.9	.3	19	5.5
80/84	.0	.0	.0	.6	4.9	30.1	42.9	9.0	302	87.5
75/79	.0	.0	.0	.0	.0	1.2	2.0	2.6	20	5.8
70/74	.0	.0	.0	.0	.0	.0	.0	.3	1	.3
TOTAL	0	0	0	3	24	118	158	42	345	100.0
PCT	.0	.0	.0	.9	7.0	34.2	45.8	12.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.6	.3	.0	.0	.0	.0	.0	.0
	.0	.9	2.2	1.9	.2	.0	.0	.3	.0	.0
	2.2	3.0	33.6	37.4	6.7	1.7	.7	.8	.0	1.4
	.4	.1	.7	2.1	1.4	.6	.3	.1	.0	.0
	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0
	2.6	4.1	37.0	41.7	8.4	2.2	1.3	1.2	.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
00Z03	92	91	87	82	79	79	77	82.6	252
06Z09	91	90	88	83	80	78	78	83.4	258
12Z15	91	88	84	82	79	78	73	82.0	406
18Z21	87	84	83	81	78	76	76	81.0	310
TOT	92	89	86	82	79	77	73	82.1	1226

TABLE 16

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	1.4	5.6	29.6	52.1	11.3	81	71
06Z09	.0	.0	16.5	43.5	30.6	9.4	78	85
12Z15	.0	1.0	2.0	38.4	42.4	16.2	82	99
18Z21	.0	1.0	5.1	24.5	58.2	11.2	82	98
TOT	0	3	25	120	162	43	81	353

JUNE

PERIOD: (PRIMARY) 1916-1972
(OVER-ALL) 1861-1972

AREA 0013 SOUTHEAST JAVA SEA
6.2S 112.9E

TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
9/10	.0	.0	.3	.0	.3	2	.0	.6
7/8	.0	.0	.6	.0	1.2	6	.0	1.7
6	.0	.0	.3	.0	1.2	5	.0	1.5
5	.0	.0	.0	.6	.9	5	.0	1.5
4	.0	.0	.3	2.6	.0	10	.3	2.6
3	.0	.0	.9	2.6	.0	12	.0	3.5
2	.0	.3	5.2	2.9	.0	29	.0	8.4
1	.0	.3	7.6	1.2	.0	31	.6	8.4
0	.0	2.6	21.8	.3	.0	85	1.5	23.3
-1	.0	.9	11.6	.9	.0	46	.6	12.8
-2	.0	2.3	14.2	.0	.0	57	.6	16.0
-3	.0	1.5	4.9	.0	.0	22	.0	6.4
-4	.3	2.3	4.4	.0	.0	24	.0	7.0
-5	.0	.6	.3	.0	.0	3	.0	.9
-6	.0	.6	.0	.0	.0	2	.0	.6
-7/-8	.3	.6	.3	.0	.0	4	.0	1.7
-9/-10	.0	.0	.3	.0	.0	1	.0	.3
TOTAL	2	41	251	38	12	344	17	332
PCT	.6	11.9	73.0	11.0	3.5	100.0	3.5	96.5

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	.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	.2	.0	.0	.0	.0	.2
1-2	.0	.0	.0	.0	.0	.0	.0
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	.0	.2	.7	.0	.0	.0	.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	2.5	.0	.0	.0	.0	3.1
1-2	.0	8.5	7.2	.0	.0	.0	15.7
3-4	.0	4.2	10.1	.0	.0	.0	14.4
5-6	.0	.0	2.8	.0	.0	.0	2.8
7	.0	.0	2.5	.0	.0	.0	2.5
8-9	.0	.0	.7	.0	.0	.0	.7
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	15.2	23.2	.0	.0	.0	39.1

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	2.0	5.9	22.2	.0	.0	.0	30.1
3-4	.0	3.1	14.1	.0	.0	.0	17.2
5-6	.0	.7	4.4	.0	.0	.0	5.1
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	2.0	11.6	42.2	.0	.0	.0	55.7

PERIOD: (OVER-ALL) 1963-1972

JUNE

TABLE 18 (CONT)

AREA 0013 SOUTHEAST JAVA SEA
6.2S 112.9E

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

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.5	.0	.0	.0	.0	.0	.5	.2	.7	.0	.0	.0	.0	.8	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	.0	.5	.0	.0	.0	1.0	.2	.7	.0	.0	.0	.0	.8	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
								335
<1	1.3	5.2	.0	.0	.0	.0	6.5	
1-2	2.6	15.7	29.4	.0	.0	.0	47.7	
3-4	.0	7.9	24.8	.0	.0	.0	32.7	
5-6	.0	.7	7.8	.0	.0	.0	8.5	
7	.0	.0	3.9	.0	.0	.0	3.9	
8-9	.0	.0	.7	.0	.0	.0	.7	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.9	29.4	66.7	.0	.0	.0	100.0	153

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	8.2	34.0	24.7	7.2	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	150	3
6-7	.0	4.1	8.8	3.1	.5	1.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	36	4
8-9	.0	.0	.0	.5	.5	.0	.0	.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	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDET	.0	1.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	3
TOTAL	16	76	67	22	9	3	1	0	0	0	0	0	0	0	0	0	0	0	0	194	3
PCT	8.2	39.2	34.5	11.3	4.6	1.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1916-1970
(OVER-ALL) 1857-1970

AREA 0013 SOUTHEAST JAVA SEA
6.2S 112.9E

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	54.5		.0	45.5
NE	12.1	2.0	.0	.0	.0	.0	.0	14.1	.0	.0	2.0	.0	14.1		.0	69.7
E	.0	1.8	.0	.0	.0	.0	.0	1.8	1.3	1.1	1.1	.0	2.9		.0	91.7
SE	.6	.3	.0	.0	.0	.0	.0	1.0	.2	1.0	.0	.0	.6		.0	97.2
S	.0	3.5	.0	.0	.0	.0	.0	3.5	.0	2.3	2.3	.0	2.3		.0	89.5
SW	.0	.0	.0	.0	.0	.0	.0	.0	5.8	.0	14.5	.0	.0		.0	79.7
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.5	.0	10.5		.0	78.9
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.5	.0	12.5		.0	75.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	1.0	1.2	.0	.0	.0	.0	.0	2.2	.7	1.0	1.7	.0	3.5		.0	90.8
TOT OBS:	402															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER 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	.0	4.9	.0	.0	.0	.0	.0	4.9	1.2	.0	2.5	.0	3.7		.0	87.7
06E09	.9	.0	.0	.0	.0	.0	.0	.9	.9	.0	2.8	.0	6.6		.0	88.7
12E15	1.5	.0	.0	.0	.0	.0	.0	1.5	.0	1.5	2.3	.0	3.8		.0	91.0
18E21	2.0	3.0	.0	.0	.0	.0	.0	5.0	1.0	2.0	.0	.0	4.0		.0	88.0
TOT PCT	1.2	1.7	.0	.0	.0	.0	.0	2.9	.7	1.0	1.9	.0	4.5		.0	89.0
TOT OBS:	420															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.1	.7	.0	.0	.0	.0		.8	5.6	.0	1.0	.0	2.2	2.0	.3	.0	.0
NE	.3	4.6	1.4	.1	.0	.0		6.5	8.7	.3	6.4	7.4	14.9	10.6	5.1	6.6	2.5
E	1.3	19.6	10.6	.8	.0	.0		32.4	9.9	18.0	30.4	25.8	39.0	39.0	34.9	45.5	25.6
SE	2.0	26.5	10.1	.2	.0	.0		38.8	8.9	47.5	44.8	50.8	32.6	31.2	40.0	33.1	41.7
S	1.1	9.0	2.7	.2	.0	.0		13.0	8.3	24.8	7.9	10.5	7.5	9.9	11.5	11.9	17.4
SW	.3	2.9	1.0	.1	.0	.0		4.3	8.7	5.4	1.0	5.8	1.1	3.0	4.4	2.0	9.2
W	.5	.4	.0	.0	.0	.0		.9	4.2	.7	3.5	1.1	.6	1.1	.8	.0	.4
NW	.3	.5	.0	.0	.0	.0		.8	4.0	.0	1.0	2.6	2.5	1.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.5							2.5	.0	5.3	4.0	1.1	1.1	2.0	0.1	1.0	2.2
TOT OBS	110	833	335	16	0	0	1294		8.8	152	101	95	178	250	195	99	224
TOT PCT	8.5	64.4	25.9	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	.6	.2	.0	.0	.0		.8	5.6	.4	1.5	1.2	.0
NE	2.2	3.9	.3	.0	.0		6.5	8.7	2.8	10.5	8.2	3.7
E	7.7	22.1	2.5	.1	.0		32.4	9.9	21.7	34.4	37.2	32.4
SE	11.6	25.5	1.6	.1	.0		38.8	8.9	46.4	37.6	35.1	39.1
S	5.1	7.1	.7	.0	.0		13.[illegible]	8.3	18.1	8.8	10.6	15.7
SW	1.6	2.4	.3	.0	.0		4.3	8.7	3.7	2.7	3.7	7.0
W	.8	.2	.0	.0	.0		.9	4.2	1.8	.7	1.0	.3
NW	.7	.1	.0	.0	.0		.8	4.0	.4	2.6	.6	.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.5						2.5	.0	4.7	1.1	2.5	1.9
TOT OBS	424	796	71	3	0	1294		8.8	253	273	445	323
TOT PCT	32.8	61.5	5.5	.2	.0		100.0		100.0	100.0	100.0	100.0

JULY

PERIOD: (PRIMARY) 1916-1970
(OVER-ALL) 1857-1970

AREA 0013 SOUTHEAST JAVA SEA
6.2S 112.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00603	4.7	6.7	59.3	28.5	.8	.0	.0	8.6	100.0	253
06609	1.1	9.2	60.1	28.9	.7	.0	.0	8.9	100.0	273
12615	2.5	5.2	67.4	23.1	1.8	.0	.0	8.8	100.0	445
18621	1.9	4.0	67.8	25.1	1.2	.0	.0	8.9	100.0	323
TOT	32	78	833	335	16	0	0	8.8		1294
PCT	2.5	6.0	64.4	25.9	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	.0	.0		.0
NE	1.0	1.2	.0	.8		3.9
E	15.9	11.3	4.8	2.2		3.1
SE	22.6	13.5	7.3	2.6		2.9
S	3.0	2.4	2.8	.0		3.7
SW	1.2	.2	.4	.8		4.2
W	.8	.0	.6	.0		3.5
NW	.8	.0	.0	.0		2.0
VAR	.0	.0	.0	.0		.0
CALM	1.6	2.4	.0	.0		2.6
TOT OBS	59	39	20	8	126	3.1
TOT PCT	46.8	31.0	15.9	6.3	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NE	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	2.2	
E	.0	.0	.8	.6	.8	.8	.6	.0	.0	.0	30.6	
SE	.0	.0	.0	1.0	1.6	.8	.2	.8	.2	.0	41.5	
S	.0	.0	.0	.0	.8	1.4	.0	.0	.6	.0	5.4	
SW	.0	.0	.0	.0	.0	1.2	.0	.0	.0	.0	1.4	
W	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.8	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	
TOT OBS	0	0	1	2	5	6	1	1	1	0	109	126
TOT PCT	.0	.0	.8	1.6	4.0	4.8	.8	.8	.8	.0	86.5	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) • OR >10	• OR >5	• OR >2	• OR >1	• OR >1/2	• OR >1/4	• OR >50YD	• OR >0
• OR >6500	.8	.8	.8	.8	.8	.8	.8	.8
• OR >5000	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
• OR >3500	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
• OR >2000	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
• OR >1000	10.2	10.2	11.0	11.0	11.0	11.0	11.0	11.0
• OR >600	11.8	11.8	12.6	12.6	12.6	12.6	12.6	12.6
• OR >300	11.8	12.6	13.4	13.4	13.4	13.4	13.4	13.4
• OR >150	11.8	12.6	13.4	13.4	13.4	13.4	13.4	13.4
• OR > 0	11.8	12.6	13.4	13.4	13.4	13.4	13.4	13.4
TOTAL	15	16	17	17	17	17	17	17

TOTAL NUMBER OF OBS: 127 PCT FREQ NH <5/8: 86.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
15.4	22.3	26.2	17.7	5.4	6.9	.8	1.5	3.8	.0	130

JULY

PERIOD: (PRIMARY) 1916-1970
(OVER-ALL) 1857-1970

AREA 0013 SOUTHEAST JAVA SEA
6.2S 112.9E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.7	.4	.7	.2	.2	.0	.1	.5	.0	.0	3.0	
	TOT %	.7	.4	.7	.2	.2	.0	.1	.5	.0	.0	3.0	
2<5	PCP	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.2	.0	.0	.2	.2	.0	.0	.0	.0	.7	
	TOT %	.0	.5	.0	.0	.2	.2	.0	.0	.0	.0	1.0	
5<10	PCP	.0	.6	.6	.4	.1	.0	.0	.0	.0	.0	1.7	
	NO PCP	.4	2.5	10.9	12.3	5.6	2.4	.6	.2	.0	1.0	35.8	
	TOT %	.4	3.1	11.5	12.6	5.7	2.4	.6	.2	.0	1.0	37.6	
10+	PCP	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	NO PCP	.2	2.2	21.3	25.4	4.2	1.7	.4	1.2	.0	1.2	58.0	
	TOT %	.2	2.2	21.3	25.4	4.4	1.7	.4	1.2	.0	1.2	58.2	
	TOT OBS												402
	TOT PCT	1.4	6.2	33.8	38.3	10.6	4.9	1.2	2.0	.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	.1	.1	.2	.1	.0	.0	.0	.0		.5	
	11-21	.0	.1	.1	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	.2	.2	.1	.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	.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	.1	.0	.0	.0	.0	.0	.1	.1	.0	.0	.3	
	4-10	.3	.2	.4	.1	.1	.0	.0	.1	.0		1.3	
	11-21	.0	.0	.0	.1	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.4	.2	.4	.3	.1	.0	.1	.3	.0	.0	1.7	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.0	.1	.0	.1	.1	.0	.0		.4	
	11-21	.0	.1	.0	.0	.1	.1	.0	.0	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.3	.0	.1	.1	.2	.1	.0	.0	.0	.8	
5<10	0-3	.0	.2	.3	.3	.1	.0	.1	.0	.0	.5	1.6	
	4-10	.2	1.3	4.2	4.6	2.5	1.0	.2	.1	.0		14.2	
	11-21	.0	.3	2.1	2.3	.6	.3	.0	.0	.0		5.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	1.7	6.6	7.2	3.2	1.3	.3	.1	.0	.5	21.4	
10+	0-3	.0	.2	.8	1.7	.3	.5	.3	.1	.0	1.9	5.7	
	4-10	.3	2.3	15.4	21.2	5.2	1.8	.3	.5	.0		47.0	
	11-21	.0	1.0	9.3	9.2	2.2	.7	.0	.0	.0		22.4	
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.3	3.4	25.6	32.1	7.8	3.0	.6	.7	.0	1.9	75.3	
	TOT OBS												749
	TOT PCT	.9	5.8	33.0	39.9	11.4	4.5	1.0	1.1	.0	2.4	100.0	

JULY

PERIOD: (PRIMARY) 1916-1970
(OVER-ALL) 1857-1970

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.9E

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	.0	3.4	6.9	6.9	6.9	.0	3.4	3.4	.0	31.0	69.0	29
06Z09	.0	.0	.0	.0	2.9	2.9	.0	.0	.0	.0	5.9	94.1	34
12Z15	.0	.0	.0	.0	2.7	2.7	.0	.0	.0	.0	5.4	94.6	37
18Z21	.0	.0	.0	.0	3.3	6.7	3.3	.0	.0	.0	13.3	86.7	30
TOT	0	0	1	2	5	6	1	1	1	0	17	113	130
PCT	.0	.0	.8	1.5	3.8	4.6	.8	.8	.8	.0	13.1	86.9	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
00Z03	.0	1.4	2.9	.0	26.1	69.6	138
06Z09	.7	.0	4.1	3.4	23.0	68.9	148
12Z15	.7	.0	1.4	.0	18.9	78.9	285
18Z21	1.0	.0	2.0	.5	23.2	73.2	198
TOT	5	2	18	6	170	568	769
PCT	.7	.3	2.3	.8	22.1	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 <5OYD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00Z03	.0	3.6	10.7	21.4	67.9	28
06Z09	.0	.0	2.9	2.9	94.1	34
12Z15	.0	.0	.0	5.7	94.3	35
18Z21	.0	.0	.0	13.3	86.7	30
TOT	0	1	4	13	110	127
PCT	.0	.8	3.1	10.2	86.6	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	.0	.0	.0	.0	1	.4
85/89	.0	.0	.0	.0	1.9	1.5	.4	.0	10	3.8
80/84	.0	.0	.0	.8	8.0	36.8	23.0	5.4	193	73.9
75/79	.0	.0	.0	.0	.8	8.8	7.7	4.2	56	21.5
70/74	.0	.0	.0	.0	.0	.0	.0	.4	1	.4
TOTAL	0	0	0	3	28	123	81	26	261	100.0
PCT	.0	.0	.0	1.1	10.7	47.1	31.0	10.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
	.0	.5	1.6	.6	.2	.6	.0	.0	.0	.4
	2.1	5.3	23.7	29.7	7.1	2.3	1.1	2.3	.0	.4
	.0	1.5	4.5	6.2	4.8	3.0	.7	.0	.0	.8
	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
	2.1	7.3	30.6	36.5	12.1	5.8	1.8	2.3	.0	1.5

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00Z03	91	88	85	81	77	75	73	80.9	254
06Z09	93	88	86	82	79	77	77	82.4	262
12Z15	86	84	83	81	78	76	75	80.7	449
18Z21	85	83	82	80	76	75	73	79.7	327
TOT	93	87	84	81	77	75	73	80.9	1292

TABLE 16

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	5.9	43.1	29.4	21.6	81	51
06Z09	.0	1.5	18.2	56.1	19.7	4.5	75	66
12Z15	.0	2.4	9.5	45.2	36.9	6.0	79	84
18Z21	.0	.0	6.6	46.1	35.5	11.8	81	76
TOT	0	3	28	132	86	28	79	277

JULY

PERIOD: (PRIMARY) 1916-1970
(OVER-ALL) 1857-1970

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.9E

TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.0	.3	.3	2	.0	.6
6	.0	.0	.6	.0	.0	.0	2	.0	.6
5	.0	.0	.0	.3	.0	.0	1	.0	.3
4	.0	.6	1.2	1.5	.0	.0	11	.0	3.3
3	.0	.3	.3	1.2	.0	.0	6	.0	1.8
2	.0	1.2	5.4	.3	.0	.0	23	.0	6.9
1	.0	1.5	7.8	.0	.0	.0	31	.3	9.0
0	.3	5.4	20.1	.3	.0	.0	87	.6	25.4
-1	.0	6.3	8.7	.0	.0	.0	50	.6	14.4
-2	.9	9.0	10.2	.0	.0	.0	67	.0	20.1
-3	.3	2.7	2.1	.0	.0	.0	17	.0	5.1
-4	1.2	4.2	1.5	.0	.0	.0	23	.0	6.9
-5	.6	2.1	.3	.0	.0	.0	10	.0	3.0
-6	.0	.6	.0	.0	.0	.0	2	.0	.6
-7/-8	.3	.3	.0	.0	.0	.0	2	.0	.6
TOTAL	12	114	194	12	1	1	334	5	329
PCT	3.6	34.1	58.1	3.6	.3	.3	100.0	1.5	98.5

PERIOD: (OVER-ALL) 1943-1970

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.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	1.7	.3	.0	.0	.0	2.1
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	1.4	.0	.0	.0	1.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.7	1.7	.0	.0	.0	3.4

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	10.3	9.6	.0	.0	.0	19.9
3-4	.0	4.8	9.6	.0	.0	.0	14.4
5-6	.0	1.4	5.5	.0	.0	.0	6.8
7	.0	.0	1.0	.0	.0	.0	1.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	17.8	25.7	.0	.0	.0	43.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.4	.0	.0	.0	.0	1.4
1-2	.0	13.0	4.1	.0	.0	.0	17.1
3-4	.0	3.4	13.7	.0	.0	.0	17.1
5-6	.0	2.7	8.2	.0	.0	.0	11.0
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	20.5	26.4	.0	.0	.0	46.9

PERIOD: (OVER-ALL) 1963-1970

JULY

TABLE 18 (CONT)

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.9E

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	1.0	.0	.0	.0	.0	1.0	.0	.3	.0	.0	.0	.0	.3
1-2	.0	2.4	1.0	.0	.0	.0	3.4	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.4	1.0	.0	.0	.0	4.5	.0	.3	.0	.0	.0	.0	.3

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	1.4	.0	.0	.0	.0	1.4	.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	1.4	.0	.0	.0	.0	1.4	.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	4.1	.0	.0	.0	.0	4.1	
1-2	.0	28.8	15.1	.0	.0	.0	43.8	
3-4	.0	8.2	23.3	.0	.0	.0	31.5	
5-6	.0	4.1	15.1	.0	.0	.0	19.2	
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	45.2	54.8	.0	.0	.0	100.0	73

PERIOD: (OVER-ALL) 1963-1970

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.6	20.4	19.4	8.3	.9	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	60	3
6-7	.0	.9	11.1	11.1	4.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	4
8-9	.0	.9	.9	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	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	.9	3.7	5.6	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	3
TOTAL	6	28	40	24	8	2	0	0	0	0	0	0	0	0	0	0	0	0	0	108	3
PCT	5.6	25.9	37.0	22.2	7.4	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1914-1972
(OVER-ALL) 1855-1972

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.9E

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	11.8		.0	88.2
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.0	9.6		.0	88.5
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	3.9		.0	95.2
SE	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	2.6		.0	96.8
S	.0	2.5	.0	.0	.0	.0	.0	2.5	.0	.0	.0	.0	6.3		.0	91.3
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.9		.0	95.1
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	.0	.2	.0	.0	.0	.0	.0	.2	.2	.0	.5	.0	4.0		.0	95.1
TOT OBS:	425															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	2.0	.0	2.0		.0	95.0
06609	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.4		.0	90.6
12615	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5		.0	96.5
18621	.8	.8	.0	.0	.0	.0	.0	1.6	.0	.0	.0	.0	2.4		.0	95.9
TOT PCT	.2	.2	.0	.0	.0	.0	.0	.5	.2	.0	.5	.0	4.2		.0	94.7
TOT OBS:	433															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	.9	*	.0	.0	.0		1.2	5.8	.0	2.3	.4	2.6	2.4	.4	1.5	.0
NE	.3	4.3	1.7	.0	.0	.0		6.3	8.7	1.7	5.1	1.3	15.7	13.4	2.2	6.4	2.3
E	.7	21.2	13.1	.5	.0	.0		35.5	10.2	20.2	26.6	26.1	44.2	44.3	39.8	49.4	29.3
SE	.8	22.5	15.4	.9	.0	.0		39.6	10.4	49.6	38.3	50.4	32.0	31.0	42.0	30.9	44.0
S	1.0	6.9	3.6	.3	.0	.0		11.9	9.4	22.3	15.0	12.5	4.1	6.1	11.9	6.8	16.1
SW	.4	2.2	.6	.1	.0	.0		3.3	8.9	5.2	4.2	2.6	.3	1.2	2.9	2.7	6.4
W	.3	.4	.1	.0	.0	.0		.8	5.9	1.0	2.8	2.2	.9	.4	.2	.0	.2
NW	.2	.1	.1	.0	.0	.0		.3	6.1	.0	.9	1.8	.3	.0	.1	.0	.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3							1.3	.0	.0	4.7	2.6	.0	1.2	.5	2.3	1.2
TOT OBS	72	825	490	26	0	0	1413		9.8	191	107	114	172	249	206	132	242
TOT PCT	5.1	58.4	34.7	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	.8	.4	.0	.0	.0		1.2	5.8	.8	1.7	1.5	.5
NE	2.1	4.0	.2	.0	.0		6.3	8.7	2.9	10.0	8.3	3.7
E	6.2	26.6	2.5	*	.0		35.5	10.2	22.5	37.0	42.3	36.4
SE	7.4	28.7	3.4	.1	.0		39.6	10.4	45.6	39.3	36.0	39.4
S	3.5	7.6	.7	.1	.0		11.9	9.4	19.6	7.4	8.7	12.8
SW	1.3	1.6	.2	.1	.0		3.3	8.9	4.9	1.2	2.0	5.1
W	.5	.3	.0	.0	.0		.8	5.9	1.7	1.4	.3	.1
NW	.2	.1	.0	.0	.0		.3	6.1	.3	.9	.1	.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.3						1.3	.0	1.7	1.0	.9	1.6
TOT OBS	330	978	100	5	0	1413		9.8	298	286	455	374
TOT PCT	23.4	69.2	7.1	.4	.0		100.0		100.0	100.0	100.0	100.0

AUGUST

PERIOD: (PRIMARY) 1914-1972
(OVER-ALL) 1855-1972

AREA 0013 SOUTHEAST JAVA SEA
6.2S 112.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.7	5.7	51.0	39.9	1.7	.0	.0	9.9	100.0	298
06&09	1.0	4.5	58.7	34.6	1.0	.0	.0	9.6	100.0	286
12&15	.9	2.9	60.9	33.0	2.4	.0	.0	9.9	100.0	455
18&21	1.6	2.9	61.0	32.6	1.9	.0	.0	9.7	100.0	374
TOT	18	54	825	490	26	0	0	9.8		1413
PCT	1.3	3.8	58.4	34.7	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	.8	.6	.0	.0		1.3
NE	.9	.2	.2	.0		2.1
E	14.2	11.7	7.6	1.1		2.9
SE	28.4	14.4	9.6	2.0		2.8
S	2.2	2.2	.6	1.2		3.9
SW	.3	.6	.0	.0		2.3
W	.0	.0	.0	.0		.0
NW	.2	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	1.2	.0	.0	.0		.5
TOT OBS	78	48	29	7	162	2.8
TOT PCT	48.1	29.6	17.9	4.3	100.0	

TABLE 6

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

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	
E	.0	.0	.6	.0	.0	.6	.0	.0	.0	.0	33.3	
SE	.0	.0	.0	.6	.0	.6	.6	.0	.0	.0	52.5	
S	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	4.9	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	
TOT OBS	0	0	1	3	0	2	1	0	0	0	155	162
TOT PCT	.0	.0	.6	1.9	.0	1.2	.6	.0	.0	.0	95.7	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	.6	.6	.6	.6	.6	.6	.6	.6
* OR >2000	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
* OR >1000	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
* OR >600	2.5	3.7	3.7	3.7	3.7	3.7	3.7	3.7
* OR >300	2.5	3.7	4.3	4.3	4.3	4.3	4.3	4.3
* OR >150	2.5	3.7	4.3	4.3	4.3	4.3	4.3	4.3
* OR > 0	2.5	3.7	4.3	4.3	4.3	4.3	4.3	4.3
TOTAL	4	6	7	7	7	7	7	7

TOTAL NUMBER OF OBS: 163 PCT FREQ NH <5/8: 95.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
18.3	25.7	25.7	18.9	6.3	3.4	.0	.0	1.7	.0	175

AUGUST

PERIOD: (PRIMARY) 1914-1972
(OVER-ALL) 1855-1972

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR 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	.1	.4	.7	1.1	.4	.0	.0	.0	.0	.0	2.6	
	TOT %	.1	.4	.7	1.1	.4	.0	.0	.0	.0	.0	2.6	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.9	.0	.0	.2	.0	.0	.0	.0	1.2	
	TOT %	.0	.0	.9	.0	.0	.2	.0	.0	.0	.0	1.2	
5<10	PCP	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	NO PCP	.2	2.6	9.1	8.1	3.5	2.8	.1	.1	.0	.2	26.8	
	TOT %	.2	2.6	9.1	8.1	3.8	2.8	.1	.1	.0	.2	27.1	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.6	3.2	25.6	31.6	5.3	1.8	.0	.1	.0	.9	69.2	
	TOT %	.6	3.2	25.6	31.6	5.3	1.8	.0	.1	.0	.9	69.2	
	TOT OBS												425
	TOT PCT	1.0	6.1	36.4	40.8	9.4	4.8	.1	.2	.0	1.2	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.2	.5	.0	.0	.0	.0	.0		.7	
	11-21	.0	.0	.1	.2	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.3	.7	.0	.0	.0	.0	.0	.0	1.0	
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	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.1	.2	.2	.2	.0	.0	.0	.0		.7	
	11-21	.0	.0	.2	.4	.0	.0	.0	.0	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.2	.4	.7	.2	.0	.0	.0	.0	.0	1.4	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.1	.0	.0	.0		.1	
	11-21	.0	.0	.5	.0	.0	.0	.0	.0	.0		.5	
	22+	.0	.0	.1	.1	.0	.0	.0	.0	.0		.1	
	TOT %	.0	.0	.5	.1	.0	.1	.0	.0	.0	.0	.7	
5<10	0-3	.1	.1	.2	.2	.0	.0	.1	.1	.0	.2	.8	
	4-10	.1	1.0	3.6	2.5	.8	.9	.0	.0	.0		8.9	
	11-21	.0	.3	2.1	2.5	1.1	.5	.0	.0	.0		6.5	
	22+	.0	.0	.1	.1	.1	.0	.0	.0	.0		.2	
	TOT %	.1	1.4	5.9	5.3	2.0	1.4	.1	.1	.0	.2	16.5	
10+	0-3	.2	.2	.5	.4	.9	.4	.1	.1	.0	.8	3.6	
	4-10	.2	2.7	18.5	19.2	5.7	1.3	.2	.0	.0		47.7	
	11-21	.0	1.4	11.4	13.2	2.2	.2	.0	.0	.0		28.4	
	22+	.0	.0	.1	.5	.0	.0	.0	.0	.0		.6	
	TOT %	.5	4.3	30.4	33.3	8.0	1.9	.3	.1	.0	.8	80.4	
	TOT OBS												830
	TOT PCT	.6	5.9	37.5	39.9	11.0	3.4	.4	.2	.0	1.1	100.0	

AUGUST

PERIOD: (PRIMARY) 1914-1972
(OVER-ALL) 1855-1972

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.9E

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	.0	.0	4.3	.0	.0	.0	.0	.0	.0	4.3	95.7	47
06Z09	.0	.0	2.4	.0	.0	2.4	.0	.0	.0	.0	4.9	95.1	41
12Z15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	37
18Z21	.0	.0	.0	2.1	.0	2.1	2.1	.0	.0	.0	6.3	93.8	48
TOT	0	0	1	3	0	2	1	0	0	0	7	166	173
PCT	.0	.0	.6	1.7	.0	1.2	.6	.0	.0	.0	4.0	96.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00Z03	.0	.0	.0	.6	18.9	80.5	164
06Z09	1.8	.0	4.1	.6	12.9	80.6	170
12Z15	1.4	.0	1.0	.7	16.1	80.8	286
18Z21	.5	.0	1.4	.9	19.7	77.5	218
TOT	8	0	13	6	142	669	838
PCT	1.0	.0	1.6	.7	16.9	79.8	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
00Z03	.0	.0	6.8	.0	93.2	44
06Z09	.0	2.4	2.4	2.4	95.1	41
12Z15	.0	.0	.0	.0	100.0	34
18Z21	.0	.0	6.8	4.5	88.6	44
TOT	0	1	7	3	153	163
PCT	.0	.6	4.3	1.8	93.9	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	.3	.0	.0	.0	1	.3
85/89	.0	.0	.0	.0	2.4	.7	.0	.0	9	3.1
80/84	.0	.0	.0	1.0	7.5	35.2	20.5	6.8	208	71.0
75/79	.0	.0	.0	.0	1.4	11.3	11.6	1.0	74	25.3
70/74	.0	.0	.0	.0	.0	.0	.3	.0	1	.3
TOTAL	0	0	0	3	34	138	95	23	293	100.0
PCT	.0	.0	.0	1.0	11.6	47.1	32.4	7.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0
85/89	.0	.5	.9	1.1	.3	.3	.0	.0	.0	.0
80/84	1.3	5.3	28.2	31.7	2.6	1.2	.0	.1	.0	.7
75/79	.0	.0	5.5	9.2	7.0	3.2	.0	.0	.0	.3
70/74	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0
PCT	1.3	5.8	34.5	42.3	9.9	5.1	.0	.1	.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
00Z03	87	86	84	81	78	76	75	80.8	292
06Z09	93	90	86	82	79	77	75	82.3	281
12Z15	84	83	82	80	78	76	73	80.3	452
18Z21	85	83	82	80	77	74	72	79.6	373
TOT	93	86	84	81	77	75	72	80.6	1398

TABLE 16

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	9.6	46.6	34.2	9.6	79	73
06Z09	.0	3.0	31.8	45.5	16.7	3.0	73	66
12Z15	.0	1.3	6.7	57.3	26.7	8.0	79	75
18Z21	.0	.0	2.3	39.1	48.3	10.3	81	87
TOT	0	3	35	141	98	24	78	301

AUGUST

PERIOD: (PRIMARY) 1914-1972
(OVER-ALL) 1855-1972

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.9E

TABLE 17

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

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.6	.0	.3	3	.0	.9
6	.0	.0	.0	.3	.0	.0	1	.0	.3
5	.0	.0	.0	.3	.6	.0	3	.0	.9
4	.0	.0	.0	.6	1.2	.0	6	.0	1.8
3	.0	.0	.6	.6	.9	.0	7	.0	2.1
2	.0	.0	1.8	3.8	.0	.0	19	.0	5.6
1	.0	.0	4.1	10.6	.0	.0	50	.0	14.7
0	.0	.0	10.0	21.5	.0	.0	107	.3	31.2
-1	.0	.0	8.5	5.6	.0	.0	48	.0	14.1
-2	.0	.3	11.8	7.1	.0	.0	65	.3	18.8
-3	.0	.0	2.4	.9	.0	.0	11	.0	3.2
-4	.0	.0	1.5	.6	.0	.0	7	.0	2.1
-5	.0	.6	.9	.0	.0	.0	5	.0	1.5
-6	.0	.0	.6	.0	.0	.0	2	.0	.6
-7/-8	.0	.6	.9	.0	.0	.0	5	.0	1.5
-9/-10	.3	.0	.0	.0	.0	.0	1	.0	.3
TOTAL	1	5	146	178	9	1	340	2	338
PCT	.3	1.5	42.9	52.4	2.6	.3	100.0	.6	99.4

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

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

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

	E							SE						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	15.1	2.0	.0	.0	.0	17.0	.3	14.2	3.7	.0	.0	.0	18.2
3-4	.0	.0	8.5	.0	.0	.0	8.5	.0	2.3	17.6	1.1	.0	.0	21.0
5-6	.0	.9	6.5	.0	.0	.0	7.4	.0	.6	12.8	2.3	.0	.0	15.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.1	.0	.0	2.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	15.9	17.0	.0	.0	.0	33.0	.3	17.0	35.2	4.5	.0	.0	57.1

AUGUST

PERIOD: (OVER-ALL) 1963-1972

TABLE 18 (CONT)

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.9E

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	.9	3.4	1.1	.0	.0	.0	5.4	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	2.3	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.9	1.1	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	4.3	4.5	.0	.0	.0	9.7	.0	.0	.0	.0	.0	.0	.0

	W							NW							
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.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	1.1	33.0	6.8	.0	.0	.0	40.9	
3-4	.0	2.3	28.4	1.1	.0	.0	31.8	
5-6	.0	2.3	20.5	2.3	.0	.0	25.0	
7	.0	.0	1.1	1.1	.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	1.1	37.5	56.8	4.5	.0	.0	100.0	88

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.5	19.5	31.6	12.8	6.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	96	3
6-7	.0	2.3	7.5	6.0	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	4
8-9	.0	.0	1.5	2.3	.0	.8	.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	[illegible]	[illegible]
12-13	.0	.0	1.5	.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	2.3	.0	.8	.0	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	3
TOTAL	5	29	57	28	11	3	0	0	0	0	0	0	0	0	0	0	[illegible]	0	0	133	4
PCT	3.8	21.8	42.9	21.1	8.3	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1914-1971
(OVER-ALL) 1857-1971

AREA 0012 SOUTHEAST JAVA SEA
6.2S 112.9E

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	22.2		.0	77.8
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5		.0	97.5
E	1.0	.0	1.0	.0	.0	.0	.0	1.0	1.3	.0	2.5	.0	4.4		.0	90.8
SE	.2	.0	.2	.0	.0	.0	.0	.2	.0	1.5	2.3	.0	3.3		.0	92.7
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	4.1	.0	3.1		.0	88.8
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28.6	.0	.0		.0	71.4
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16.7	.0	.0		.0	83.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	.4	.0	.4	.0	.0	.0	.0	.4	.4	1.1	2.6	.0	3.7		.0	91.9
TOT OBS:	271															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE							OTHER WEATHER 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	.0	.0	1.4	.0	6.8		.0	91.8
06&09	1.7	.0	1.7	.0	.0	.0	.0	1.7	1.7	.0	1.7	.0	3.4		.0	91.4
12&15	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	5.2	.0	3.9		.0	89.6
18&21	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	1.4	.0	.0		.0	95.8
TOT PCT	.4	.0	.4	.0	.0	.0	.0	.4	.4	1.1	2.5	.0	3.6		.0	92.1
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	.8	.0	.0	.0	.0		1.1	5.4	.7	2.8	1.8	1.0	1.5	.6	.0	.5
NE	.4	4.9	2.3	.0	.0	.0		7.6	9.2	1.1	5.5	4.7	20.1	14.2	3.4	6.6	1.1
E	1.1	19.1	10.3	.1	.0	.0		30.6	9.7	17.3	18.8	23.2	37.6	42.6	33.7	36.0	25.0
SE	1.8	27.0	13.9	.1	.0	.0		42.8	9.5	54.9	45.9	58.8	31.2	29.8	45.1	40.1	49.2
S	.7	8.1	3.4	.2	.0	.0		12.3	9.0	19.4	17.4	7.4	7.3	7.6	11.7	11.5	16.8
SW	.5	2.2	.5	.0	.0	.0		3.1	7.6	4.9	3.2	1.8	1.6	2.6	2.1	2.2	5.5
W	.3	.5	.0	.0	.0	.0		.8	5.9	.4	2.5	.6	.0	.4	1.8	1.4	.5
NW	.1	.5	.0	.0	.0	.0		.6	5.1	.0	3.2	1.8	.6	.2	.3	.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.1							1.1	.0	1.4	.9	.0	.6	.9	1.2	2.2	1.6
TOT OBS	72	734	353	5	0	0	1164		9.2	142	109	85	157	227	163	91	190
TOT PCT	6.2	63.1	30.3	.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	.7	.3	.0	.0	.0		1.1	5.4	1.6	1.2	1.2	.4
NE	1.7	5.7	.2	.0	.0		7.6	9.2	3.0	14.7	9.7	2.8
E	5.4	22.4	1.8	.0	.0		30.6	9.7	17.9	32.5	38.9	28.6
SE	10.5	29.7	2.5	.1	.0		42.8	9.5	51.0	40.9	36.2	46.3
S	4.1	7.5	.6	.0	.0		12.3	9.0	18.5	7.3	9.3	15.1
SW	1.2	2.0	.0	.0	.0		3.1	7.6	4.2	1.7	4.4	4.4
W	.4	.4	.0	.0	.0		.8	5.9	1.2	.2	1.0	.6
NW	.5	.1	.0	.0	.0		.6	5.1	1.4	1.0	.3	.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.1						1.1	.0	1.2	.4	1.0	1.8
TOT OBS	310	792	61	1	0	1164		9.2	251	242	390	281
TOT PCT	26.6	68.0	5.2	.1	.0		100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1914-1971
(OVER-ALL) 1857-1971

AREA 0013 SOUTHEAST JAVA SEA
6.2S 112.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
				WIND SPEED (KNOTS)						
00603	1.2	8.4	59.4	31.1	.0	.0	.0	9.0	100.0	251
06609	.4	4.5	63.6	30.6	.8	.0	.0	9.6	100.0	242
12615	1.0	4.1	63.6	30.8	.5	.0	.0	9.2	100.0	390
18621	1.8	3.9	65.1	28.8	.4	.0	.0	9.2	100.0	281
TOT	13	59	734	353	5	0	0	9.2		1164
PCT	1.1	5.1	63.1	30.3	.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	1.5	.3	1.3	.0		3.7
E	14.5	5.5	7.8	1.0		2.9
SE	28.3	16.5	8.5	2.3		2.6
S	2.5	.8	3.5	.8		4.2
SW	1.5	.0	.0	.0		1.6
W	.8	.0	.0	.0		2.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	2.0	1.0	.0	.0		1.3
TOT OBS	51	24	21	4	100	2.0
TOT PCT	51.0	24.0	21.0	4.0	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	
E	.0	.0	.0	.0	1.6	.0	.0	.0	.0	1.0	26.8	
SE	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	55.0	
S	.0	.0	.0	.0	2.8	.0	.0	.0	.0	.8	4.0	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	
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	0	4	0	0	0	0	2	94	100
TOT PCT	.0	.0	.0	.0	4.0	.0	.0	.0	.0	2.0	94.0	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	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
* OR >5000	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
* OR >3500	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
* OR >2000	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
* OR >1000	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
* OR >600	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
* OR >300	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
* OR >150	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
* OR > 0	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
TOTAL	6	6	6	6	6	6	6	6

TOTAL NUMBER OF OBS: 101 PCT FREQ NH <5/8: 94.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
21.0	27.4	35.5	10.5	.8	.8	2.4	.8	.8	.0	124

SEPTEMBER

PERIOD (PRIMARY) 1914-1971
(OVER-ALL) 1857-1971

AREA 0013 SOUTHEAST JAVA SEA
6.2S 112.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR 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	.7	1.1	.0	.0	.0	.0	.0	.0	1.8	
	TOT %	.0	.0	.7	1.1	.0	.0	.0	.0	.0	.0	1.8	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.4	.2	.6	1.1	.0	.0	.0	.0	.0	.0	2.2	
	TOT %	.4	.2	.6	1.1	.0	.0	.0	.0	.0	.0	2.2	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.3	.1	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.0	.0	.3	.1	.0	.0	.0	.0	.0	.0	.4	
5<10	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.4	4.6	8.2	9.5	3.3	.6	.4	.4	.0	.4	27.7	
	TOT %	.4	4.6	8.2	9.5	3.3	.6	.4	.4	.0	.4	27.7	
10+	PCP	.0	.0	.3	.1	.0	.0	.0	.0	.0	.0	.4	
	NO PCP	.9	2.7	19.0	36.3	5.7	.7	.3	.7	.0	1.1	67.5	
	TOT %	.9	2.7	19.3	36.4	5.7	.7	.3	.7	.0	1.1	67.9	
	TOT OBS												271
	TOT PCT	1.7	7.5	29.1	48.2	9.0	1.3	.6	1.1	.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	.1	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.1	.2	.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	.2	.1	.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	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.3	.4	.0	.0	.0	.0	.0		.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.3	.4	.0	.0	.0	.0	.0	.0	.7	
1<2	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.1	.3	.0	.0	.0	.0	.0		.4	
	11-21	.0	.1	.1	.1	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.1	.2	.4	.0	.0	.0	.0	.0	.0	.9	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.2	.2	*	.3	.0	.0	.0	.0		.7	
	11-21	.0	.0	.0	.1	.1	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	.2	.1	.4	.0	.0	.0	.0	.0	.9	
5<10	0-3	.0	*	.3	.2	.0	.0	.0	.0	.0	.3	.9	
	4-10	.1	1.6	2.2	2.6	1.6	.2	.1	.1	.0		8.7	
	11-21	.0	.4	1.5	1.8	.2	.0	.0	.0	.0		3.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	2.0	4.0	4.6	1.8	.2	.1	.1	.0	.3	13.4	
10+	0-3	.2	.4	.3	1.7	.4	.2	.0	.0	.0	.9	4.1	
	4-10	.8	3.7	18.3	24.2	6.6	1.4	.3	.4	.0		55.7	
	11-21	.0	2.0	8.2	10.2	2.7	.4	.0	.0	.0		23.5	
	22+	.0	.0	.1	.0	.1	.0	.0	0	.0		.3	
	TOT %	1.0	6.0	26.9	36.2	9.9	2.1	.3	.4	.0	.9	83.6	
	TOT OBS												677
	TOT PCT	1.3	8.4	31.9	41.9	12.1	2.3	.4	.5	.0	1.2	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1914-1971
(OVER-ALL) 1857-1971

AREA 0013 SOUTHEAST JAVA SEA
6.2S 112.9E

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
00E03	.0	.0	.0	.0	7.4	.0	.0	.0	.0	3.7	11.1	88.9	27
06E09	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	27
12E15	.0	.0	.0	.0	2.9	.0	.0	.0	.0	.0	2.9	97.1	35
18E21	.0	.0	.0	.0	2.9	.0	.0	.0	.0	2.9	5.7	94.3	35
TOT	0	0	0	0	4	0	0	0	0	2	6	118	124
PCT	.0	.0	.0	.0	3.2	.0	.0	.0	.0	1.6	4.8	95.2	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	.7	.7	2.1	1.4	17.1	77.9	140
06E09	1.5	.8	1.5	1.5	13.5	81.2	133
12E15	.0	.8	.4	.4	12.4	86.1	251
18E21	.0	.6	.0	.6	13.6	85.2	162
TOT	3	5	6	6	95	571	686
PCT	.4	.7	.9	.9	13.8	83.2	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	.0	.0	13.0	87.0	23
06E09	.0	.0	.0	.0	100.0	24
12E15	.0	.0	.0	4.0	96.0	25
18E21	.0	.0	.0	6.9	93.1	29
TOT	0	0	0	6	95	101
PCT	.0	.0	.0	5.9	94.1	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	.6	.0	.0	.0	.0	1	.6
85/89	.0	.0	.0	.0	1.1	3.9	2.2	.0	13	7.3
80/84	.0	.0	.0	.0	3.4	39.7	26.8	7.3	138	77.1
75/79	.0	.0	.0	.0	.0	3.9	10.1	1.1	27	15.1
TOTAL	0	0	0	1	8	85	70	15	179	100.0
PCT	.0	.0	.0	.6	4.5	47.5	39.1	8.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.3	1.8	4.3	.6	.3	.0	.0	.0	.0
	.6	7.7	22.8	37.2	5.6	.7	.7	.8	.0	1.1
	.6	.1	3.6	7.4	2.7	.7	.0	.0	.0	.0
	2.1	8.1	18.2	48.9	9.4	1.7	.7	.8	.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	88	87	86	82	78	76	74	81.7	214
06E09	90	89	87	83	80	78	77	82.9	236
12E15	87	85	83	81	79	77	72	81.0	380
18E21	90	83	82	80	77	76	75	80.0	274
TOT	90	87	85	81	78	76	72	81.2	1134

TABLE 16

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	7.8	43.1	41.2	7.8	79	51
06E09	.0	.0	10.8	51.4	29.7	8.1	78	37
12E15	.0	.0	2.0	49.0	39.2	9.8	80	51
18E21	.0	2.1	.0	45.8	45.8	6.3	81	48
TOT	0	1	9	88	74	15	80	187

SEPTEMBER

PERIOD: (PRIMARY) 1914-1971
(OVER-ALL) 1857-1971

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.9E

TABLE 17

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

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	.5	1	.0	.5
7/8	.0	.0	.0	.0	1.0	2	.0	1.0
4	.0	.0	.0	2.5	3.0	11	.0	5.5
3	.0	.0	.0	1.5	2.5	8	.0	4.0
2	.0	.0	1.0	7.5	.5	18	.0	9.0
1	.0	.0	3.0	11.5	1.0	31	.0	15.5
0	.0	.0	7.0	21.5	1.0	59	.5	29.0
-1	.0	.0	5.5	7.0	.0	25	.0	12.5
-2	.0	.0	5.5	6.5	.0	24	.0	12.0
-3	.0	.0	2.5	.0	.0	5	.0	2.5
-4	.0	1.0	3.0	1.5	.0	11	.0	5.5
-5	.0	.0	.5	.5	.0	2	.0	1.0
-7/-8	.5	.5	.5	.0	.0	3	.0	1.5
TOTAL	1	3	57	120	19	200	1	199
PCT	.5	1.5	28.5	60.0	9.5	100.0	.5	99.5

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.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	1.8	.0	.0	.0	.0	1.8
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	2.2	.0	.0	.0	.0	2.2

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	18.8	1.1	.0	.0	.0	19.9
3-4	.0	1.1	6.3	.0	.0	.0	7.4
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	19.9	8.8	.0	.0	.0	28.7

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	19.5	3.7	.0	.0	.0	23.2
3-4	.0	11.8	12.9	.0	.0	.0	24.6
5-6	.0	.0	7.7	.0	.0	.0	7.7
7	.0	.0	2.9	.0	.0	.0	2.9
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	34.2	27.2	.0	.0	.0	61.4

PERIOD: (OVER-ALL) 1963-1971

SEPTEMBER

TABLE 18 (CONT)

AREA 0013 SOUTHEAST JAVA SEA
6.2S 112.9E

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	2.2	1.1	.0	.0	.0	3.3	1.5	.4	.0	.0	.0	.0	1.8
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	2.6	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0
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	3.7	.0	.0	.0	5.9	1.5	.4	.0	.0	.0	.0	1.8

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.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	1.4	2.9	.0	.0	.0	.0	4.3	
1-2	1.4	42.0	5.8	.0	.0	.0	49.3	
3-4	.0	13.0	18.8	.0	.0	.0	31.9	
5-6	.0	.0	11.6	.0	.0	.0	11.6	
7	.0	.0	2.9	.0	.0	.0	2.9	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								69
TOT PCT	2.9	58.0	39.1	.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	2.1	32.3	31.3	6.3	3.1	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	73	3
6-7	.0	2.1	3.1	3.1	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	4
8-9	.0	1.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	3.1	2.1	3.1	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	3
TOTAL	5	36	36	12	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	96	3
PCT	5.2	37.5	37.5	12.5	6.3	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1917-1972
(OVER-ALL) 1857-1972

AREA 0013 SOUTHEAST JAVA SEA
6.2S 112.9E

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	4.4	.0	.0	.0	.0	95.6
NE	.0	.0	.0	.0	.0	.0	.0	.0	1.0	4.0	8.1	.0	2.0	.0	.0	84.8
E	2.7	.7	.0	.0	.0	.0	.0	3.3	1.3	.9	.9	.0	2.7	.0	.0	90.9
SE	2.4	.2	.0	.0	.0	.0	.0	2.6	.2	4.1	2.8	.0	.4	.8	.0	89.8
S	2.1	2.1	.0	.0	.0	.0	.0	4.1	.0	.0	2.1	.0	6.2	.0	.0	87.6
SW	8.7	.0	.0	.0	.0	.0	.0	8.7	.0	8.7	7.7	.0	19.2	.0	.0	63.5
W	6.4	.0	.0	.0	.0	.0	.0	6.4	8.5	10.6	.0	.0	.0	.0	.0	74.5
NW	.0	9.1	.0	.0	.0	.0	.0	9.1	.0	4.5	.0	.0	.0	.0	.0	86.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	18.2	.0	.0	27.3	.0	.0	54.5
TOT PCT	2.6	.8	.0	.0	.0	.0	.0	3.4	.8	3.4	2.6	.0	3.9	.3	.0	86.3
TOT OBS:	380															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	3.4	1.1	.0	.0	.0	.0	.0	4.5	.0	.0	2.3	.0	10.2	.0	.0	83.0
06609	1.1	.0	.0	.0	.0	.0	.0	1.1	1.1	.0	2.2	.0	3.3	.0	.0	92.4
12615	.9	.0	.0	.0	.0	.0	.0	.9	.9	6.9	2.6	.0	2.6	.9	.0	86.2
18621	4.2	3.4	.0	.0	.0	.0	.0	7.6	.8	4.2	3.4	.0	5.9	.0	.0	79.8
TOT PCT	2.4	1.2	.0	.0	.0	.0	.0	3.6	.7	3.1	2.7	.0	5.3	.2	.0	85.1
TOT OBS:	415															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.0	1.7	.0	.0	.0	.0		2.6	4.6	.0	4.0	2.3	5.0	5.8	.9	3.2	.5
NE	1.6	5.7	.7	.0	.0	.0		8.0	6.4	2.3	11.5	4.6	16.1	13.6	5.8	7.5	2.8
E	2.4	18.6	5.4	.1	.0	.0		26.5	8.1	17.4	26.0	31.3	39.6	33.3	26.6	31.3	13.9
SE	2.3	23.7	6.4	.1	.0	.0		32.5	8.2	36.4	33.5	28.6	23.6	27.5	39.5	30.1	37.0
S	1.8	11.5	2.9	*	.0	.0		16.3	7.9	32.7	14.0	13.5	6.1	7.5	14.0	10.0	26.6
SW	.5	4.2	1.7	.0	.0	.0		6.3	8.4	6.5	4.0	4.9	1.1	2.8	6.1	7.5	13.9
W	.5	1.0	.2	.0	.0	.0		1.7	6.7	1.2	2.0	4.9	2.1	2.0	1.2	.7	.9
NW	.3	1.3	.1	.0	.0	.0		1.6	7.1	.7	2.0	2.0	3.6	2.5	.6	2.9	.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.5							4.5	.0	2.7	3.0	7.9	2.9	5.0	5.3	6.8	4.2
TOT OBS	170	783	201	3	0	0	1157		7.5	149	100	76	140	202	171	103	216
TOT PCT	14.7	67.7	17.4	.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	2.1	.5	.0	.0	.0		2.6	4.6	1.6	4.1	3.6	1.3
NE	4.7	3.2	.1	.0	.0		8.0	6.4	6.0	12.0	10.1	4.3
E	11.4	13.8	1.3	.0	.0		26.5	8.1	20.9	36.7	30.2	19.5
SE	13.1	18.2	1.3	.0	.0		32.5	8.2	35.2	25.3	33.0	34.8
S	6.6	9.0	.7	.0	.0		16.3	7.9	25.2	8.7	10.5	21.2
SW	2.8	3.1	.4	.0	.0		6.3	8.4	5.5	2.4	4.4	11.8
W	1.0	.7	*	.0	.0		1.7	6.7	1.5	3.1	1.6	.9
NW	.7	1.0	.0	.0	.0		1.6	7.1	1.2	3.0	1.6	1.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.5						4.5	.0	2.8	4.6	5.1	5.0
TOT OBS	541	572	44	0	0	1157		7.5	249	216	373	319
TOT PCT	46.8	49.4	3.8	.0	.0		100.0		100.0	100.0	100.0	100.0

OCTOBER

PERIOD: (PRIMARY) 1917-1972
(OVER-ALL) 1857-1972

AREA 0013 SOUTHEAST JAVA SEA
6.2S 112.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00603	2.8	11.2	67.1	18.5	.4	.0	.0	7.7	100.0	249
06609	4.6	13.0	66.7	15.3	.5	.0	.0	7.1	100.0	216
12615	5.1	11.5	65.7	17.7	.0	.0	.0	7.3	100.0	373
18621	5.0	6.0	71.2	17.6	.3	.0	.0	7.7	100.0	319
TOT	92	118	783	201	3	0	0	7.5		1157
PCT	4.5	10.2	67.7	17.4	.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	.8	.6	.6	.0		3.3
NE	1.0	1.0	1.2	.8		4.6
E	14.3	7.9	10.3	3.7		3.7
SE	17.4	12.4	7.8	1.0		2.8
S	1.9	1.4	1.2	.8		3.3
SW	.2	.0	1.0	1.0		6.3
W	.8	.8	2.9	.6		5.1
NW	.0	.8	1.6	1.6		6.4
VAR	.0	.0	.0	.0		.0
CALM	.8	.0	1.6	.8		5.5
TOT OBS	48	32	36	13	129	3.6
TOT PCT	37.2	24.8	27.9	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	300 599	600 999	1000 1999	2000 2499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	1.4	
NE	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	2.9	
E	.0	.0	.0	.0	2.5	1.4	.0	.0	.0	.0	32.4	
SE	.0	.0	.0	1.6	2.3	1.0	.0	.0	.0	.0	33.7	
S	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	3.9	
SW	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	1.2	
W	.0	.0	.0	.6	1.6	.0	.0	.0	.0	.0	2.9	
NW	.0	.0	.0	.8	.8	.0	.0	.0	.0	.0	2.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	2.3	
TOT OBS	0	0	0	5	12	5	0	0	0	0	107	129
TOT PCT	.0	.0	.0	3.9	9.3	3.9	.0	.0	.0	.0	82.9	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	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
* OR >1000	10.6	12.9	12.9	12.9	12.9	12.9	12.9	12.9
* OR >600	13.6	16.7	17.4	17.4	17.4	17.4	17.4	17.4
* OR >300	13.6	16.7	17.4	17.4	17.4	17.4	17.4	17.4
* OR >150	13.6	16.7	17.4	17.4	17.4	17.4	17.4	17.4
* OR > 0	13.6	16.7	17.4	17.4	17.4	17.4	17.4	17.4
TOTAL	18	22	23	23	23	23	23	23

TOTAL NUMBER OF OBS: 132 PCT FREQ NH <5/8: 82.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
19.0	16.3	20.4	15.6	10.2	7.5	2.0	3.4	5.4	.0	147

OCTOBER

PERIOD: (PRIMARY) 1917-1972
(OVER-ALL) 1857-1972

AREA 0013 SOUTHEAST JAVA SEA
6.45 112.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR 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	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.1	.0	.0	.0	.5	.0	.0	.0	.0	.8	
	TOT %	.1	.1	.0	.0	.0	.5	.0	.0	.0	.0	.8	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.1	.4	.0	.5	1.3	.0	.0	.0	.8	3.2	
	TOT %	.0	.1	.4	.0	.5	1.3	.0	.0	.0	.8	3.2	
2<5	PCP	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
	NO PCP	.0	.3	.2	.8	.0	.0	.0	.0	.0	.0	1.3	
	TOT %	.0	.3	.2	.8	.0	.3	.0	.0	.0	.0	1.6	
5<10	PCP	.0	.0	.3	.8	.5	.3	.0	.3	.0	.0	2.1	
	NO PCP	1.2	2.2	7.1	8.9	6.7	2.5	.5	1.1	.0	.8	31.1	
	TOT %	1.2	2.2	7.4	9.7	7.2	2.8	.5	1.3	.0	.8	33.2	
10+	PCP	.0	.0	.7	.1	.0	.1	.2	.0	.0	.0	1.1	
	NO PCP	1.6	3.4	21.0	21.8	5.0	1.9	2.4	1.6	.0	1.3	60.0	
	TOT %	1.6	3.4	21.7	21.8	5.0	2.0	2.6	1.6	.0	1.3	61.1	
	TOT OBS												380
	TOT PCT	3.0	6.5	29.7	32.4	12.8	6.4	3.1	2.9	.0	2.9	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.1	.3	.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	.1	.1	.3	.0	.0	.0	.0	.0	.0	.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.1	.0	.0	.0	.1	.0	.0	.0		.3	
	11-21	.0	.0	.0	.0	.0	.1	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.1	.0	.0	.0	.3	.0	.0	.0	.0	.4	
1<2	0-3	.0	.0	.0	.0	.0	.3	.0	.0	.0	.4	.7	
	4-10	.0	.1	.2	.0	.4	.3	.0	.0	.0		1.0	
	11-21	.0	.0	.0	.0	.1	.1	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.2	.0	.6	.7	.0	.0	.0	.4	2.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.3	
	4-10	.0	.2	.2	.4	.0	.1	.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	.2	.2	.4	.0	.1	.0	.1	.0	.1	1.3	
5<10	0-3	.1	.2	.3	.3	.4	.1	.0	.0	.0	.4	2.0	
	4-10	.5	1.0	3.0	4.1	3.1	.9	.1	.7	.0		13.6	
	11-21	.0	.0	1.3	1.7	.8	.6	.1	.0	.0		4.5	
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.6	1.3	4.8	6.2	4.3	1.6	.3	.7	.0	.4	20.1	
10+	0-3	.6	1.0	2.0	1.7	1.0	.2	.5	.1	.0	3.6	10.9	
	4-10	.9	3.3	15.2	18.7	7.8	2.6	1.0	.8	.0		50.5	
	11-21	.0	.5	4.4	5.0	2.4	1.3	.1	.1	.0		14.0	
	22+	.0	.0	.0	.2	.1	.0	.0	.0	.0		.3	
	TOT %	1.6	4.9	21.7	25.6	11.3	4.2	1.7	1.0	.0	3.6	75.7	
	TOT OBS												715
	TOT PCT	2.3	6.6	27.0	32.4	16.2	6.9	2.0	1.9	.0	4.6	100.0	

OCTOBER

PERIOD: (PRIMARY) 1917-1972
(OVER-ALL) 1857-1972

AREA 0013 SOUTHEAST JAVA SEA
6.2S 112.9E

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	.0	.0	8..	8.1	2.7	.0	.0	.0	.0	18.9	81.1	37
06Z09	.0	.0	.0	.0	14.3	7.1	.0	.0	.0	.0	21.4	78.6	25
12Z15	.0	.0	.0	2.5	2.5	.0	.0	.0	.0	.0	5.0	95.0	40
18Z21	.0	.0	.0	5.3	10.5	5.3	.0	.0	.0	.0	21.1	78.9	38
TOT	0	0	0	6	12	5	0	0	0	0	23	120	143
PCT	.0	.0	.0	4.2	8.4	3.5	.0	.0	.0	.0	16.1	83.9	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
00Z03	.6	.6	5.1	1.3	16.6	75.8	157
06Z09	.7	.7	2.2	.0	24.3	72.1	136
12Z15	.4	.4	1.2	1.6	21.0	75.3	243
18Z21	.5	.5	3.3	1.4	26.2	68.2	214
TOT	4	4	21	9	166	546	750
PCT	.5	.5	2.8	1.2	22.1	72.8	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
00Z03	.0	.0	8.8	11.8	79.4	34
06Z09	.0	.0	.0	22.2	77.8	27
12Z15	.0	.0	10.8	2.7	86.5	37
18Z21	.0	.0	5.9	17.6	76.5	34
TOT	0	0	9	17	106	132
PCT	.0	.0	6.8	12.9	80.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.4	.0	.0	.0	.0	1	.4
85/89	.0	.0	.0	1.6	3.1	7.4	1.9	.0	36	14.0
80/84	.0	.0	.0	.0	4.3	35.7	33.7	5.0	203	78.7
75/79	.0	.0	.0	.0	.0	1.2	4.3	1.6	18	7.0
TOTAL	0	0	0	5	19	114	103	17	258	100.0
PCT	.0	.0	.0	1.9	7.4	44.2	39.9	6.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	.0	.1	.3	.0	.0	.0
	.2	.8	5.3	3.9	1.1	.8	.8	.8	.0	.4
	3.1	3.4	21.7	27.0	10.0	7.0	1.5	1.6	.0	3.5
	.0	.4	1.1	1.3	2.7	1.3	.3	.0	.0	.0
	3.3	4.6	28.1	32.2	13.8	9.1	2.8	2.3	.0	3.9

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00Z03	90	88	86	82	79	76	72	82.5	250
06Z09	91	90	88	84	80	78	75	84.0	210
12Z15	89	86	85	82	79	78	77	82.2	373
18Z21	87	85	83	81	78	76	74	81.2	322
TOT	91	88	86	82	79	77	72	82.3	1155

TABLE 16

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	1.6	12.5	45.3	34.4	6.3	78	64
06Z09	.0	6.5	17.7	45.2	30.6	.0	74	62
12Z15	.0	1.3	3.9	38.8	44.7	13.2	80	76
18Z21	.0	.0	.0	43.8	49.4	6.7	81	89
TOT	0	6	22	124	119	20	79	291

OCTOBER

PERIOD: (PRIMARY) 1917-1972
(OVER-ALL) 1857-1972

AREA 0013 SOUTHEAST JAVA SEA
6.2S 112.9E

TABLE 17

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

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.0	.3	.6	3	.0	.9
6	.0	.0	.0	.0	.3	.3	2	.0	.6
5	.0	.0	.0	.0	1.2	.0	4	.0	1.2
4	.0	.0	.0	.6	1.2	.3	7	.0	2.1
3	.0	.0	.3	1.5	.9	.0	9	.0	2.8
2	.0	.0	.0	7.0	2.4	.3	32	.3	9.5
1	.0	.0	.3	8.0	2.4	.0	35	.6	10.1
0	.0	.0	2.1	26.6	1.2	.0	98	.6	29.4
-1	.0	.0	1.8	8.9	.6	.0	37	.3	11.0
-2	.0	.0	4.9	11.6	.9	.0	57	.6	16.8
-3	.0	.0	2.1	3.1	.0	.0	17	.0	5.2
-4	.0	.0	1.8	2.4	.0	.0	14	.0	4.3
-5	.0	.3	.9	.6	.0	.0	6	.0	1.8
-6	.0	.3	.0	.6	.0	.0	3	.3	.6
-7/-8	.0	.0	.3	.3	.0	.0	2	.3	.3
-11/-13	.3	.0	.0	.0	.0	.0	1	.0	.3
TOTAL	1		48		38			10	317
		2		233		5	327		
PCT	.3	.6	14.7	71.3	11.6	1.5	100.0	3.1	96.9

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	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	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.9	.3	.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	.0	2.9	.3	.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	2.6	15.4	1.9	.0	.0	.0	19.9
3-4	.0	2.2	9.0	.0	.0	.0	11.2
5-6	.0	.0	5.8	.0	.0	.0	5.8
7	.0	.0	1.0	.0	.0	.0	1.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.6	17.6	17.6	.0	.0	.0	37.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3
1-2	.0	17.0	4.2	.0	.0	.0	21.2
3-4	.0	4.2	6.4	.0	.0	.0	10.6
5-6	.0	.0	4.5	.0	.0	.0	4.5
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	1.3	.0	.0	1.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	22.4	15.4	1.3	.0	.0	39.1

PERIOD: (OVER-ALL) 1963-1972

OCTOBER

TABLE 18 (CONT)

AREA 0013 SOUTHEAST JAVA SEA
6.2S 112.9E

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	1.3	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.9	3.8	.0	.0	.0	6.7	.0	2.2	.0	.0	.0	.0	2.2
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	1.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	2.9	3.8	.0	.0	.0	8.0	.0	2.2	1.3	.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	.0	.0	.0	.0	.0	.0	
1-2	1.3	3.2	.0	.0	.0	.0	4.5	.0	1.3	.0	.0	.0	.0	1.3	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.3	3.2	.0	.0	.0	.0	4.5	.0	1.3	.0	.0	.0	.0	1.3	98.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.6	1.3	.0	.0	.0	.0	3.8	
1-2	3.8	46.2	10.3	.0	.0	.0	60.3	
3-4	.0	6.4	16.7	.0	.0	.0	23.1	
5-6	.0	.0	10.3	.0	.0	.0	10.3	
7	.0	.0	1.3	.0	.0	.0	1.3	
8-9	.0	.0	.0	1.3	.0	.0	1.3	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								78
TOT PCT	6.4	53.8	38.5	1.3	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.9	36.4	11.0	9.3	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	76	3
6-7	.0	.0	7.6	4.2	4.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	5
8-9	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
10-11	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	2
12-13	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	4.8	5.9	1.7	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	1
TOTAL	15	52	25	19	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	118	3
PCT	12.7	44.1	21.2	16.1	5.1	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1918-1971
(OVER-ALL) 1858-1971

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	1.9	.0	.0	.0	.0	.0	.0	1.9	.0	9.5	3.8	.0	.0		.0	86.7
NE	1.9	7.5	.0	.0	.0	.0	.0	9.4	.9	9.4	.0	.0	3.8		.0	78.3
E	.0	3.9	.0	.0	.0	.0	.0	3.9	1.5	2.0	2.0	.0	2.9		.0	87.8
SE	1.6	1.6	.0	.0	.0	.0	.0	3.1	.0	5.0	.0	.0	5.8		.0	87.6
S	5.4	.0	.0	.0	.0	.0	.0	5.4	.0	6.1	.0	.0	3.4		.0	87.8
SW	6.1	.7	2.7	.0	.0	.0	.0	9.5	.0	6.1	1.4	.0	6.8		.0	77.0
W	7.1	2.1	.0	.0	.0	.0	.0	9.3	.0	10.7	1.4	.0	11.4		.0	69.3
NW	7.9	.0	.0	.0	.0	.0	.0	7.9	.0	15.8	.0	.0	.0		.0	76.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	.0	.0	.0		.0	96.8
TOT PCT	3.3	1.8	.3	.0	.0	.0	.0	5.3	.3	6.8	.9	.0	4.2		.0	83.7
TOT OBS:	337															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	3.8	3.8	1.3	.0	.0	.0	.0	8.8	.0	1.3	.0	.0	7.5		.0	82.5
06609	3.5	2.2	.0	.0	.0	.0	.0	5.8	1.2	2.3	2.3	.0	3.5		.0	86.0
12615	.0	1.0	.0	.0	.0	.0	.0	1.0	.0	9.2	2.0	.0	3.1		.0	84.7
18621	5.9	2.0	.0	.0	.0	.0	.0	7.9	.0	14.9	.0	.0	4.0		.0	76.2
TOT PCT	3.3	2.2	.3	.0	.0	.0	.0	5.8	.3	7.4	1.1	.0	4.4		.0	82.2
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	1.5	3.1	.4	.0	.0	.0		5.0	5.5	.7	8.5	5.2	9.9	5.9	2.2	4.3	3.8
NE	2.1	5.0	.3	.1	.0	.0		7.5	5.7	2.4	10.5	4.2	17.4	13.4	3.9	2.3	2.8
E	2.7	14.4	1.5	.1	.0	.0		18.7	6.8	12.8	20.5	23.9	22.4	25.5	20.2	17.0	9.7
SE	3.4	14.4	1.7	.2	.0	.0		19.6	6.7	26.2	17.5	19.7	13.8	14.9	23.6	17.5	22.4
S	3.3	7.7	1.4	.0	.0	.0		12.5	6.0	18.2	8.0	7.3	5.9	6.5	14.9	9.8	22.9
SW	2.9	7.0	.8	.0	.0	.0		10.6	5.8	18.4	4.5	11.2	5.3	5.2	13.2	12.6	14.2
W	1.4	5.3	1.0	.0	.0	.0		7.7	6.7	10.1	7.0	8.4	5.6	5.9	6.5	11.5	9.0
NW	1.1	5.7	.4	.0	.0	.0		7.2	5.9	2.1	11.5	10.1	11.2	7.0	3.7	11.2	5.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	11.3							11.3	.0	9.0	12.0	9.0	8.6	15.6	11.8	13.8	9.4
TOT OBS	947	733	88	5	0	0	1173		5.6	144	100	89	152	211	178	87	212
TOT PCT	29.6	62.5	7.5	.4	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.8	1.0	.2	.0	.0		5.0	5.5	3.9	8.5	4.2	3.9
NE	5.4	1.9	.2	.0	.0		7.5	5.7	5.7	12.6	9.1	2.7
E	10.1	8.2	.3	.0	.0		18.7	6.8	16.0	22.9	23.1	11.8
SE	11.6	7.2	.6	.1	.0		19.6	6.7	22.6	16.0	18.9	21.0
S	8.6	3.6	.3	.0	.0		12.5	6.0	14.0	6.4	10.3	19.1
SW	7.5	2.7	.4	.0	.0		10.6	5.8	12.7	7.5	8.9	13.7
W	4.3	3.2	.2	.0	.0		7.7	6.7	8.8	6.6	6.2	9.7
NW	5.0	2.1	.0	.0	.0		7.2	5.9	5.9	10.8	5.5	7.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	11.3						11.3	.0	10.2	8.7	13.9	10.7
TOT OBS	793	354	25	1	0	1173		5.6	244	241	389	299
TOT PCT	67.6	30.2	2.1	.1	.0		100.0		100.0	100.0	100.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1918-1971
(OVER-ALL) 1858-1971

AREA 0013 SOUTHEAST JAVA SEA
6.2S 112.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	10.2	23.4	56.1	9.8	.4	.0	.0	5.6	100.0	244
06&09	8.7	15.4	66.8	9.1	.0	.0	.0	6.0	100.0	241
12&15	13.9	18.8	61.7	4.9	.8	.0	.0	5.2	100.0	389
18&21	10.7	16.1	65.2	7.7	.3	.0	.0	5.7	100.0	299
TOT	132	215	733	88	5	0	0	5.6		1173
PCT	11.3	18.3	2.5	7.5	.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	.7	.7	1.6	.9		4.8
NE	.0	.9	.2	1.2		5.7
E	3.0	5.4	2.8	.7		3.7
SE	9.6	4.9	2.8	2.3		3.0
S	5.4	3.5	.0	2.3		3.3
SW	1.6	3.0	4.9	4.2		5.7
W	.7	2.6	6.1	2.1		5.5
NW	1.4	1.4	4.0	.2		4.4
VAR	.0	.0	.0	.0		.0
CALM	6.5	6.5	4.7	.9		3.5
TOT OBS	31	31	29	16	107	4.1
TOT PCT	29.0	29.0	27.1	15.0	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	
NE	.0	.0	.0	2	.0	.0	.0	.0	.0	.0	2.1	
E	.0	.0	.0	.7	.9	.0	.0	.0	.0	.0	10.3	
SE	.0	.0	.0	.0	.2	.0	.0	.0	.2	.0	19.2	
S	.0	.0	.0	.0	.7	.0	.0	.0	.7	.0	9.8	
SW	.0	.0	.9	.9	2.3	.9	.0	.0	.0	.0	8.6	
W	.0	.0	.0	.7	1.4	.9	.0	.0	.0	.0	8.4	
NW	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	6.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	17.8	
TOT OBS	0	0	1	3	7	2	0	0	1	0	93	107
TOT PCT	.0	.0	.9	2.8	6.5	1.9	.0	.0	.9	.0	86.9	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	.9	.9	.9	.9	.9	.9	.9
* OR >5000	.0	.9	.9	.9	.9	.9	.9	.9
* OR >3500	.0	.9	.9	.9	.9	.9	.9	.9
* OR >2000	1.8	2.7	2.7	2.7	2.7	2.7	2.7	2.7
* OR >1000	6.3	8.9	9.8	9.8	9.8	9.8	9.8	9.8
* OR >600	7.1	12.5	13.4	13.4	13.4	13.4	13.4	13.4
* OR >300	7.1	12.5	14.3	14.3	14.3	14.3	14.3	14.3
* OR >150	7.1	12.5	14.3	14.3	14.3	14.3	14.3	14.3
* OR > 0	7.1	12.5	14.3	14.3	14.3	14.3	14.3	14.3
TOTAL	8	14	16	16	16	16	16	16

TOTAL NUMBER OF OBS: 112 PCT FREQ NH <5/8: 85.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
19.9	23.4	25.8	15.3	7.3	3.2	4.0	3.2	4.8	.0	124

PERIOD: (PRIMARY) 1918-1971
(OVER-ALL) 1858-1971

AREA 0013 SOUTHEAST JAVA SEA
6.2S 112.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR 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	.3	.4	1.0	.1	.7	1.5	.0	.0	.0	4.2	
	TOT %	.0	.3	.4	1.0	.1	.7	1.5	.0	.0	.0	4.2	
2<5	PCP	.0	.0	.0	.0	.0	.4	.2	.0	.0	.0	.6	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.4	.2	.0	.0	.0	.6	
5<10	PCP	.1	.7	.6	.3	.0	.3	.5	.7	.0	.0	3.9	
	NO PCP	3.0	3.3	6.4	6.5	3.9	3.9	2.2	3.3	.0	2.1	34.4	
	TOT %	3.2	4.0	7.0	6.8	4.5	4.2	2.7	3.9	.0	2.1	38.3	
10+	PCP	.0	.0	.0	.3	.0	.4	.2	.0	.0	.0	.9	
	NO PCP	4.6	3.6	7.8	11.0	6.4	5.3	5.8	4.5	.0	7.1	56.1	
	TOT %	4.6	3.6	7.8	11.3	6.4	5.7	6.0	4.5	.0	7.1	57.0	
	TOT OBS												337
	TOT PCT	7.8	7.9	15.2	19.1	11.0	11.0	10.4	8.5	.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	.1	.1	.0	.0	.0	.0	.3	
	4-10	.1	.1	.1	.1	.1	.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 %	.1	.1	.1	.1	.2	.3	.1	.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	
	11-21	.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	.3	.0	.0	.1	.0	.0	.0	.4	
	4-10	.0	.0	.1	.3	.0	.2	.4	.0	.0		1.0	
	11-21	.0	.1	.1	.0	.1	.1	.2	.0	.0		.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.3	.6	.1	.4	.7	.0	.0	.0	2.1	
2<5	0-3	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.1	.1	.1	.0	*	.1	.0	.0		.4	
	11-21	.0	.0	.0	.0	.1	.2	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	.1	.1	.1	.2	.1	.0	.0	.0	.9	
5<10	0-3	.1	.4	.4	.5	.1	.3	.0	.3	.0	2.1	4.3	
	4-10	1.5	1.5	3.0	3.2	1.9	1.9	1.4	1.5	.0		15.9	
	11-21	.1	.1	.3	.4	.3	.1	.1	.2	.0		1.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	1.7	2.1	3.8	4.0	2.3	2.3	1.5	2.0	.0	2.1	21.7	
10+	0-3	1.3	1.6	1.6	2.5	3.0	1.9	1.3	.5	.0	9.6	23.4	
	4-10	2.0	3.7	9.[illegible]	11.6	6.0	5.2	3.8	4.0	.0		46.1	
	11-21	.4	.1	1.1	1.6	.7	.6	.4	.0	.0		5.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	3.8	5.4	12.5	15.7	9.7	7.7	5.6	4.5	.0	9.6	74.5	
	TOT OBS												705
	TOT PCT	5.5	7.9	16.8	20.4	12.3	10.9	7.9	6.5	.0	11.8	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1918-1971
(OVER-ALL) 1858-1971

AREA 0013 SOUTHEAST JAVA SEA
6.2S 112.9E

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	.0	4.0	.0	8.0	4.0	.0	.0	4.0	.0	20.0	80.0	25
06Z09	.0	.0	.0	8.8	.0	2.9	.0	.0	.0	.0	11.8	88.2	34
12Z15	.0	.0	.0	.0	11.5	.0	.0	.0	.0	.0	11.5	88.5	26
18Z21	.0	.0	.0	2.8	8.3	.0	.0	.0	.0	.0	11.1	88.9	36
TOT	0	0	1	4	8	2	0	0	1	0	16	105	121
PCT	.0	.0	.8	3.3	6.6	1.7	.0	.0	.8	.0	13.2	86.8	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	.7	.0	3.6	.7	22.3	72.7	139
06Z09	1.4	.0	2.0	.7	27.0	68.9	148
12Z15	.8	.0	2.0	.8	2[illegible].1	75.4	256
18Z21	.5	.0	2.1	1.1	26.3	70.0	190
TOT	6	0	17	6	175	529	733
PCT	.8	.0	2.3	.8	23.9	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 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00Z03	.0	4.0	4.0	16.0	80.0	25
06Z09	.0	.0	9.7	3.2	87.1	31
12Z15	.0	.0	4.0	8.0	88.0	25
18Z21	.0	.0	3.2	9.7	87.1	31
TOT	0	1	6	10	96	112
PCT	.0	.9	5.4	8.9	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
90/94	.0	.0	.0	.5	.0	1.4	.0	.0	4	1.9
85/89	.0	.0	.0	.0	3.7	11.6	4.7	.5	44	20.5
80/84	.0	.0	.0	.0	2.8	35.3	29.8	5.6	158	73.5
75/79	.0	.0	.0	.0	.0	.0	1.4	2.8	9	4.2
TOTAL	0	0	0	1	14	104	77	19	215	100.0
PCT	.0	.0	.0	.5	6.5	48.4	35.8	8.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.9	.0	.5	.0	.0	.5	.0	.0
	2.2	1.6	4.9	2.9	2.0	.2	1.4	2.4	.0	2.8
	4.3	3.7	10.3	17.7	7.[illegible]	9.0	8.3	4.2	.0	8.4
	.5	.9	.0	.5	.5	1.0	.3	.5	.0	.0
	7.0	6.3	16.2	21.0	10.6	10.2	10.0	7.6	.0	11.2

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	93	91	88	83	79	77	75	83.1	246
06Z09	93	91	89	84	78	75	74	84.1	243
12Z15	91	87	86	83	81	79	77	83.1	397
18Z21	93	90	84	82	79	77	75	82.0	307
TOT	93	90	87	83	79	77	74	83.0	1193

TABLE 16

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	2.1	54.2	35.4	8.3	79	48
06Z09	.0	1.7	10.3	58.6	20.7	3.6	76	58
12Z15	.0	.0	7.8	43.8	43.8	4.7	79	64
18Z21	.0	.0	4.3	35.7	47.1	12.9	81	70
TOT	0	1	15	113	90	21	79	240

NOVEMBER

PERIOD: (PRIMARY) 1918-1971
(OVER-ALL) 1858-1971

AREA 0018 SOUTHEAST JAVA SEA
6.2S 112.9E

TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	# FOG	NO FOG
5	.0	.0	.4	1.5	.0	5	.0	1.8
4	.0	.0	.4	1.5	1.5	9	.0	3.3
3	.0	.0	.0	1.5	.0	4	.0	1.5
2	.0	.0	1.8	2.2	.7	13	.0	4.7
1	.0	.0	5.1	3.3	.0	23	.4	8.0
0	.0	.7	18.6	4.0	.0	64	1.1	22.3
-1	.0	1.1	16.1	3.3	.0	56	.0	20.4
-2	.0	1.1	15.0	.4	.0	45	.0	16.4
-3	.0	1.1	4.4	.0	.0	15	.0	5.5
-4	.0	1.5	6.9	.0	.0	23	.0	8.4
-5	.0	2.2	1.1	.0	.0	9	.0	3.3
-7/-8	.4	1.1	.4	.0	.0	5	.0	1.8
-9/-10	.4	.7	.0	.0	.0	3	.0	1.[illegible]
TOTAL	2		19.		6		4	270
		26		48		274		
PCT	.7	9.5	70.1	17.5	2.2	100.0	1.[illegible]	98.5

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	1.7	.0	.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	.0	.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	.6	.6	.0	.0	.0	.0	1.1
3-4	.0	2.2	.0	.0	.0	.0	2.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	2.8	.0	.0	.0	.0	3.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.2	.0	.0	.0	.0	2.2
1-2	.0	7.8	.0	.0	.0	.0	7.8
3-4	.0	.0	3.3	.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	10.0	3.3	.0	.0	.0	13.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	6.7	2.2	.0	.0	.0	.0	8.9
1-2	2.2	10.6	.0	.0	.0	.0	12.8
3-4	.0	.0	5.6	.0	.0	.0	5.6
5-6	.0	.0	6.7	.0	.0	.0	6.7
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	8.9	12.8	12.2	.0	.0	.0	33.9

PERIOD: (OVER-ALL) 1963-1971

NOVEMBER

TABLE 18 (CONT)

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.9E

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	2.2	.0	.0	.0	.0	.0	2.2
1-2	2.2	3.3	.0	.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	4.4	3.3	.0	.0	.0	.0	7.8

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.2	.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	2.2	.0	.0	.0	.0	.0	2.2

W

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	2.2	.0	.0	.0	.0	2.2
3-4	.0	.0	3.9	.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	4.4	3.9	.0	.0	.0	8.3

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	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	2.8	73.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	33.3	6.7	.0	.0	.0	.0	40.0	
1-2	8.9	28.9	.0	.0	.0	.0	37.8	
3-4	.0	2.2	13.3	.0	.0	.0	15.6	
5-6	.0	.0	6.7	.0	.0	.0	6.7	
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	42.2	37.8	20.0	.0	.0	.0	100.0	45

PERIOD: (OVER-ALL) 1969-1971

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
<4	14.9	34.5	10.3	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	55	2
4-7	2.2	.0	2.2	2.3	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	3
8-9	.0	.0	.0	.0	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	8
10-11	.0	1.1	.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	21.8	1.1	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	0
TOTAL	34	32	12	6	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	37	2
PCT	39.1	36.8	13.8	6.9	2.3	1.1	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1873-1972

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.8E

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	16.0	4.0	.0	.0	.0	.0	.0	20.0	.0	4.0	.0	.0	8.0	.0		72.0
NE	3.5	.0	.0	.0	.0	.0	.0	3.5	.0	3.5	10.5	.0	.0	.0		86.0
E	7.4	3.7	.0	.0	.0	.0	.0	11.1	.0	14.8	7.4	.0	.0	.0		74.1
SE	11.8	1.7	.0	.0	.0	.0	.0	13.4	.0	6.7	5.0	.0	.0	.0		74.8
S	5.9	4.7	.0	.0	.0	.0	.0	10.6	4.7	.0	.0	.0	.0	.0		84.7
SW	11.8	2.8	.7	.0	.0	.0	.0	15.3	.0	9.0	.0	.0	.0	.0		70.8
W	8.0	8.7	2.3	.0	.0	.0	.0	19.0	1.3	5.7	1.3	.0	.0	.0		74.0
NW	4.3	3.4	.0	.0	.0	.0	.0	7.7	1.7	9.4	1.7	.0	.0	.0		81.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
TOT PCT	7.6	4.3	.7	.0	.0	.0	.0	12.6	1.1	6.5	2.2	.0	.4	.0		79.1
TOT OBS:	278															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER 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	4.3	2.9	2.9	.0	.0	.0	.0	10.0	.0	.0	.0	.0	2.9	.0		87.1
06E09	2.7	7.2	2.9	.0	.0	.0	.0	13.0	.0	1.4	2.9	.0	.0	.0		82.6
12E15	8.9	4.0	.0	.0	.0	.0	.0	12.9	.0	8.9	4.0	.0	1.0	.0		77.2
18E21	16.0	2.7	1.3	.0	.0	.0	.0	20.0	4.0	16.0	2.7	.0	.0	.0		60.0
TOT PCT	8.3	4.1	1.6	.0	.0	.0	.0	14.0	1.0	7.0	2.5	.0	1.0	.0		76.5
TOT OBS:	315															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	2.6	.4	.0	0	.0		4.1	6.0	2.9	7.0	4.1	6.9	6.9	1.9	2.1	.0
NE	1.8	2.6	.0	.0	.0	.0		4.4	4.3	.0	7.0	4.1	4.9	3.7	4.6	5.7	1.6
E	2.2	3.3	.3	.0	.0	.0		5.7	4.8	2.5	4.4	4.9	8.8	10.8	6.7	2.6	3.2
SE	2.2	6.4	.5	.0	.0	.0		9.1	5.2	11.5	7.9	4.0	6.9	8.1	7.7	12.5	13.7
S	2.8	5.2	.8	.0	.0	.0		8.9	6.0	16.4	16.7	11.1	4.9	3.0	5.8	5.2	8.9
SW	1.9	9.7	2.4	.3	.1	.0		14.4	7.9	23.8	8.8	16.0	2.9	11.4	9.6	18.2	23.4
W	2.6	14.9	7.1	1.7	.5	.0		26.8	10.5	23.8	21.9	26.6	22.5	24.2	34.6	27.1	32.3
NW	2.4	1.5	3.2	1.2	.4	.0		18.7	9.7	14.3	12.3	16.0	32.4	20.5	19.2	22.4	13.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.8							7.8	.0	4.9	14.0	11.5	7.8	7.2	9.6	4.2	3.2
TOT OBS	118	267	70	15	5	0	475		7.5	61	57	61	51	83	57	48	62
TOT PCT	24.8	54.2	14.7	3.2	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	2.8	1.1	.2	.0	.0		4.1	6.0	4.9	5.4	5.0	.9
NE	3.7	.7	.0	.0	.0		4.4	4.3	3.4	5.4	5.4	3.4
E	4.7	1.0	.0	.0	.0		5.7	4.8	3.4	6.7	9.3	3.0
SE	7.2	1.9	.0	.0	.0		9.1	5.3	9.7	5.6	8.0	13.2
S	5.7	2.7	.4	.0	.0		8.9	6.0	16.5	6.3	4.1	7.3
SW	7.3	6.0	1.1	.1	.0		14.4	7.9	16.5	10.0	10.7	21.1
W	8.7	14.8	2.0	.9	.4		26.8	10.5	22.9	24.8	29.4	30.0
NW	7.6	8.3	2.2	.4	.2		18.7	9.7	13.3	23.9	20.0	17.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	7.8						7.8	.0	9.3	9.8	4.1	3.6
TOT OBS	264	173	28	7	3	475		7.5	118	112	135	110
TOT PCT	55.6	36.4	5.9	1.5	.6		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1875-1972

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	9.3	23.7	53.4	8.5	4.2	.8	.0	6.8	100.0	118
06&09	9.8	16.1	51.8	17.9	2.7	1.8	.0	7.9	100.0	112
12&15	8.1	14.1	55.6	19.3	3.0	.0	.0	7.3	100.0	135
18&21	3.6	14.5	64.5	12.7	2.7	1.8	.0	8.1	100.0	110
TOT	37	81	267	70	15	5	0	7.5		475
PCT	7.8	17.1	56.2	14.7	3.2	1.1	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.0	1.2	.9	1.2		3.8
NE	.0	1.2	2.6	2.3		6.3
E	.0	.0	3.8	.0		5.4
SE	3.5	.0	2.9	1.2		4.3
S	.0	.0	2.0	3.5		7.4
SW	1.2	.0	5.8	4.7		6.5
W	2.0	1.7	14.5	8.7		6.3
NW	.6	6.4	7.0	9.9		5.9
VAR	.0	.0	.0	.0		.0
CALM	1.2	3.5	2.3	2.3		4.3
TOT OBS	9	12	36	29	86	5.8
TOT PCT	10.5	14.0	41.9	33.7	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	1.2	.0	.0	.0	.0	.0	4.1	
NE	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	4.9	
E	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	2.6	
SE	.0	.0	.0	1.2	.0	.0	2.3	.0	.0	.0	4.1	
S	.0	.0	.0	.0	3.2	.0	.0	.0	.0	.0	2.3	
SW	.0	.0	1.2	1.2	.3	2.3	.0	.0	.0	.0	6.7	
W	.0	.0	.0	2.3	5.5	5.2	.0	.0	.0	.0	14.0	
NW	.0	.0	.0	1.2	2.6	1.7	.0	.0	.0	.0	18.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	1.2	2.3	.0	.0	.0	.0	5.8	
TOT OBS	0	0	1	5	13	10	2	0	1	0	54	86
TOT PCT	.0	.0	1.2	5.8	15.1	11.6	2.3	.0	1.2	.0	62.8	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >500YD	* OR >0
* OR >6500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
* OR >5000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
* OR >3500	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
* OR >2000	12.1	14.3	14.3	14.3	14.3	14.3	14.3	14.3
* OR >1000	23.1	28.6	29.7	29.7	29.7	29.7	29.7	29.7
* OR >600	26.4	33.0	35.2	35.2	35.2	35.2	35.2	35.2
* OR >300	26.4	33.0	35.2	35.2	36.3	36.3	36.3	36.3
* OR >150	26.4	34.1	36.3	36.3	37.4	37.4	37.4	37.4
* OR > 0	26.4	34.1	36.3	36.3	37.4	37.4	37.4	37.4
TOTAL	24	31	33	33	34	3	34	34

TOTAL NUMBER OF OBS: 91 PCT FREQ NH <5/8: 62.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
5.6	17.8	15.9	12.1	13.1	8.4	12.1	2.8	12.1	.0	107

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1874-1972

AREA 0015 SOUTHEAST JAVA SEA
6.25 112.8E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.4	.0	.0	.0	.0	.4	.0	.0	.0	.0	.7	
	NO PCP	.0	.0	.0	.0	.0	.0	.4	.4	.0	.0	.7	
	TOT %	.4	.0	.0	.0	.0	.4	.4	.4	.0	.0	1.4	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.4	.0	.0	.0	.0	.0	.0	.7	.0	.0	1.1	
	TOT %	.4	.0	.0	.0	.0	.0	.0	.7	.0	.0	1.1	
2<5	PCP	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	
	NO PCP	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	1.1	
	TOT %	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	1.4	
5<10	PCP	.5	.2	.4	.9	.8	1.2	2.9	.7	.0	.0	7.6	
	NO PCP	.9	1.4	1.4	3.1	1.6	2.3	5.2	6.3	.0	1.1	23.4	
	TOT %	1.4	1.6	1.8	4.0	2.4	3.5	8.1	7.0	.0	1.1	30.9	
10+	PCP	.0	.0	.2	.5	.0	.4	1.9	.9	.0	.0	4.0	
	NO PCP	2.3	3.5	2.5	6.2	5.2	8.6	15.2	12.1	.0	5.0	61.2	
	TOT %	2.3	3.5	3.1	6.7	5.2	9.1	17.1	13.0	.0	5.0	65.1	
	TOT OBS												278
	TOT PCT	4.5	5.1	4.9	10.7	7.6	12.9	27.0	21.1	.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	.3	.0	.0	.0	.0	.0	.0	.3	.7	
	4-10	.0	.0	.0	.0	.0	.7	1.4	.0	.0		2.0	
	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	.3	.0	.0	.7	1.4	.0	.0	.3	3.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
	4-10	.3	.0	.0	.0	.0	.0	.2	.2	.0		.7	
	11-21	.0	.0	.0	.0	.0	.0	.2	.2	.0		.3	
	22+	.0	.0	.0	.0	.0	.3	.0	.0	.0		.3	
	TOT %	.3	.0	.0	.0	.0	.3	.7	.3	.0	.0	1.7	
1<2	0-3	.3	.1	.3	.0	.0	.0	.3	.0	.0	.0	1.0	
	4-10	.0	.0	.0	.0	.0	.3	.0	.0	.0		.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.7	.0		.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.1	.3	.0	.0	.3	.3	.7	.0	.0	2.0	
2<5	0-3	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.3	
	4-10	.0	.0	.0	.0	.0	.0	.3	.3	.0		.7	
	11-21	.0	.0	.0	.0	.0	.0	1.0	.0	.0		1.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.2	.2	1.4	.3	.0	.0	2.0	
5<10	0-3	.0	.5	.5	1.0	.7	.0	.0	.3	.0	1.0	4.1	
	4-10	1.4	1.0	1.2	2.7	.9	2.3	4.4	5.4	.0		19.3	
	11-21	.0	.0	.0	.0	.7	1.0	2.9	.8	.0		5.4	
	22+	.0	.0	.0	.0	.0	.0	.3	.0	.0		.3	
	TOT %	1.4	1.5	1.7	3.7	2.3	3.3	7.6	6.6	.0	1.0	29.2	
10+	0-3	.9	.7	.7	.8	1.2	2.0	1.8	2.4	.0	4.7	15.3	
	4-10	1.3	2.6	1.7	4.7	3.4	5.4	11.2	7.9	.0		38.0	
	11-21	.0	.0	.5	.8	.3	1.3	3.3	1.5	.0		7.8	
	22+	.0	.0	.0	.0	.0	.0	.3	.7	.0		1.0	
	TOT %	2.2	3.3	2.9	6.4	4.9	8.6	16.6	12.5	.0	4.7	62.0	
	TOT OBS												295
	TOT PCT	4.6	4.9	5.2	10.1	7.6	13.4	28.0	20.4	.0	6.1	100.0	

DECEMBER

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1875-1972

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.8E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00603	.0	3.4	3.4	6.9	13.8	3.4	6.9	.0	.0	.0	37.9	62.1	29
06609	.0	.0	.0	11.1	11.1	7.4	.0	.0	.0	.0	29.6	70.4	27
12615	.0	.0	.0	.0	11.5	23.1	.0	.0	3.8	.0	38.5	61.5	26
18621	.0	.0	.0	.0	19.0	4.8	.0	.0	.0	.0	23.8	76.2	21
TOT	0	1	1	5	14	10	2	0	1	0	34	69	103
PCT	.0	1.0	1.0	4.9	13.6	9.7	1.9	.0	1.0	.0	33.0	67.0	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
00603	2.8	1.4	4.2	1.4	26.4	63.9	72
06609	2.7	1.4	.0	2.7	31.5	61.6	73
12615	2.8	2.8	3.7	1.9	38.9	50.0	108
18621	2.5	1.3	.0	2.5	38.0	55.7	79
TOT	9	6	7	7	114	189	332
PCT	2.7	1.8	2.1	2.1	34.3	56.9	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00603	.0	8.3	16.7	29.2	54.2	24
06609	.0	.0	12.0	20.0	68.0	25
12615	.0	.0	4.3	39.1	56.5	23
18621	.0	.0	.0	26.3	73.7	19
TOT	0	2	8	26	57	91
PCT	.0	2.2	8.8	28.6	62.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	1.2	.0	.0	.0	2	1.2
85/89	.0	.0	.0	.0	1.2	9.5	2.4	.0	22	13.1
80/84	.0	.0	.0	.6	4.8	28.6	38.1	7.7	134	79.8
75/79	.0	.0	.0	.0	.0	.0	3.6	2.4	10	6.0
TOTAL	0	0	0	1	12	64	74	17	168	100.0
PCT	.0	.0	.0	.6	7.1	38.1	44.0	10.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.1	.4	.0	.0	.0
.0	1.8	2.2	1.3	2.4	.0	1.5	3.9	.0	.0
5.7	2.2	2.8	8.3	4.9	14.1	18.9	18.8	.0	6.0
.0	.0	.6	1.2	.6	1.5	1.5	.6	.0	.0
5.7	4.0	5.7	10.9	7.9	15.8	22.3	21.9	.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
00603	95	94	90	83	79	76	75	83.3	124
06609	92	91	90	84	79	79	75	83.7	116
12615	86	85	85	82	79	77	77	82.3	149
18621	85	84	84	81	78	76	75	81.1	119
TOT	95	91	87	82	79	76	75	82.5	508

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	.0	4.5	50.0	31.8	13.6	80	44
06609	.0	2.1	14.6	41.7	31.3	10.4	77	48
12615	.0	.0	5.9	29.4	50.0	14.7	81	68
18621	.0	2.3	.0	20.9	65.1	11.6	83	43
TOT	0	2	13	71	91	26	81	203

DECEMBER

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1875-1972

AREA 0013 SOUTHEAST JAVA SEA
6.2S 112.8E

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 THP 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
7/9	.0	.0	.0	.8	.0	2	.0	.8
6	.0	.0	.0	.0	.4	1	.0	.4
5	.0	.0	.4	.0	.0	1	.0	.4
4	.0	.0	.4	.4	.0	2	.0	.8
3	.0	.0	1.2	1.6	.4	8	.0	3.1
2	.0	.0	1.2	3.1	.4	12	.4	4.3
1	.0	.0	8.3	1.6	.0	25	.0	9.8
0	.0	.4	16.5	2.4	.4	50	1.2	18.5
-1	.0	.4	11.0	1.2	.0	32	.8	11.8
-2	.0	.8	19.7	1.2	.0	55	.8	20.9
-3	.0	3.1	4.7	.0	.0	20	.0	7.9
-4	.0	3.9	4.3	.0	.0	21	.0	8.3
-5	.8	2.4	3.5	.0	.0	17	.0	6.7
-6	.4	1.6	.8	.0	.0	7	.0	2.8
TOTAL	3	32	183	31	5	254	8	246
PCT	1.2	12.6	72.0	12.2	2.0	100.0	3.1	96.9

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	2.3	4.1	.0	.0	.0	.0	6.4
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	2.3	4.1	.0	.0	.0	.0	6.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.9	.0	.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	2.9	.0	.0	.0	.0	2.9

E

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

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	[illegible]	.0	.0	.0	.0	2.3
5-6	.0	[illegible]	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.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

PERIOD: (OVER-ALL) 1963-1972

DECEMBER

TABLE 18 (CONT)

AREA 0013 SOUTHEAST JAVA SEA
6.2S 112.8E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.7	.0	.0	.0	.0	1.7	4.7	5.2	.0	.0	.0	.0	9.9
3-4	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.6	.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	2.3	.0	.0	2.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.7	.0	.0	.0	.0	1.7	4.7	7.6	.6	2.3	.0	.0	15.1

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	1.7	2.3	.0	.0	.0	.0	4.1	.6	2.3	.0	.0	.0	.0	2.9	
1-2	.0	12.8	5.2	.0	.0	.0	18.0	4.7	5.1	1.7	.0	.0	.0	10.5	
3-4	.0	.0	3.5	4.7	.0	.0	8.1	.0	.0	.6	.0	.0	.0	.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	2.3	.0	.0	.0	2.3	.0	.0	.0	.0	2.3	.0	2.3	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	2.3	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.7	15.1	11.0	4.7	.0	.0	32.6	5.2	6.4	2.3	.0	4.7	.0	18.6	81.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	22.7	4.5	.0	.0	.0	.0	27.3	
1-2	11.4	31.8	6.8	.0	.0	.0	50.0	
3-4	.0	4.5	4.5	4.5	.0	.0	13.6	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	2.3	.0	.0	2.3	
8-9	.0	.0	2.3	.0	2.3	.0	4.5	
10-11	.0	.0	.0	.0	2.3	.0	2.3	
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	
								44
TOT PCT	34.1	40.9	13.6	6.8	4.5	.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	14.7	42.7	12.0	.0	1.3	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	54	2
6-7	.0	2.7	4.0	1.3	1.3	1.3	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
10-11	.0	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	12.0	.0	.0	1.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	1
TOTAL	20	35	12	2	2	3	1	0	0	0	0	0	0	0	0	0	0	0	0	75	2
PCT	26.7	46.7	16.0	2.7	2.7	4.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

ANNUAL

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

AREA 0013 SOUTHEAST JAVA SEA
6.2S 112.9E

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	3.3	1.3	.0	.0	.0	.0	.0	4.6	1.0	2.3	1.5	.0	8.0	.0	83.0
NE	2.9	1.7	.4	.0	.0	.0	.0	5.0	.2	4.1	3.1	.0	2.8	.0	85.5
E	2.0	2.7	.1	.0	.0	.0	.0	4.8	2.4	4.4	2.2	.0	1.6	.0	85.9
SE	4.0	1.8	.3	.0	.0	.0	.0	6.1	.4	2.6	1.9	.0	1.3	.1	88.2
S	6.3	1.6	.2	.0	.0	.0	.0	8.1	.4	4.5	.8	.0	2.3	.0	85.3
SW	4.2	4.2	.4	.0	.0	.0	.0	8.8	.5	2.6	2.4	.0	2.7	.0	84.3
W	3.8	3.9	1.0	.0	.0	.0	.0	8.7	1.2	5.5	5.4	.0	1.8	.0	78.0
NW	2.8	3.9	.1	.0	.0	.0	.0	6.8	.4	3.9	3.0	.0	1.1	.0	85.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4	.0	1.0	.0	.0	.0	.0	2.4	.2	4.7	.7	.0	2.9	.0	89.3
TOT PCT	3.4	2.5	.4	.0	.0	.0	.0	6.2	.7	3.7	1.6	.0	1.9	*	86.6
TOT OBS:	5071														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	3.0	2.7	.6	.0	.0	.0	.0	6.2	.8	.3	1.6	.0	3.1	.0	88.1
06609	2.2	3.0	.5	.0	.0	.0	.0	5.5	1.2	.6	1.7	.0	2.5	.0	88.8
12615	3.8	1.8	.4	.0	.0	.0	.0	6.0	.2	6.4	2.2	.0	1.7	.1	84.6
18621	5.4	3.5	.5	.0	.0	.0	.0	9.4	.6	7.3	1.6	.0	1.4	.0	81.3
TOT PCT	3.7	2.6	.5	.0	.0	.0	.0	6.8	.6	3.9	1.7	.0	2.1	*	85.6
TOT OBS:	5382														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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		3.4	5.5	1.9	4.7	3.0	6.4	4.8	2.2	2.7	1.7
NE	1.5	4.4	.8	*	*	.0		6.7	6.3	2.7	7.4	4.3	14.0	10.6	5.1	5.7	2.7
E	2.0	14.2	5.6	.2	*	.0		22.0	7.5	15.0	19.8	21.2	25.8	27.4	23.7	25.2	16.8
SE	2.0	15.5	6.1	.2	.0	.0		23.8	7.6	30.2	23.3	27.2	17.5	19.2	25.6	21.7	26.8
S	1.6	6.1	1.5	.1	.0	.0		9.3	7.1	15.1	9.7	7.2	4.0	3.4	9.2	7.1	14.4
SW	1.2	4.3	.9	.1	*	.0		6.6	7.2	9.8	4.8	6.3	2.3	4.0	6.2	7.2	11.2
W	1.7	7.0	3.1	.4	.1	.0		12.3	7.1	13.3	17.9	13.3	10.9	10.7	12.4	13.0	13.5
NW	1.5	5.9	2.2	.3	*	.0		9.8	6.9	7.4	10.9	10.9	14.9	10.8	8.3	10.7	6.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.2							6.2	.0	4.6	6.4	6.5	4.2	7.1	7.4	6.6	6.1
TOT OBS							14521		7.7	1890	1289	1126	1795	2697	2074	1238	2412
TOT PCT	18.6	59.6	20.5	1.1	.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	2.5	.8	.1	.0	.0		3.4	5.5	3.1	5.1	3.6	2.1
NE	4.0	2.6	.1	*	.0		6.7	6.3	4.6	10.2	8.2	3.8
E	7.7	13.3	1.0	*	.0		22.0	7.5	16.9	24.0	25.8	19.6
SE	8.6	14.1	1.1	*	.0		23.8	7.6	27.4	21.2	22.0	25.1
S	4.6	4.3	.4	*	.0		9.3	7.1	13.0	5.3	7.1	12.0
SW	3.7	2.5	.3	*	.0		6.6	7.2	7.7	4.0	4.9	9.8
W	5.2	5.9	1.1	.1	*		12.3	7.1	13.1	11.9	11.4	13.3
NW	4.6	4.2	.9	.1	*		9.8	6.9	8.8	13.2	9.7	8.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	6.2						6.2	.0	5.4	5.1	7.2	6.3
TOT OBS						14521		7.7	3179	2921	4771	3650
TOT PCT	47.0	47.7	4.9	.3	.1		100.0		100.0	100.0	100.0	100.0

ANNUAL

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1955-1973

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	5.4	16.0	55.8	21.5	1.3	.1	.0	7.6	100.0	3179
06&09	5.1	11.6	59.4	22.6	1.1	.2	.0	8.0	100.0	2921
12&15	7.2	12.3	60.0	19.4	1.0	*	.0	7.5	100.0	4771
18&21	6.3	10.1	62.5	19.7	1.2	.2	.0	7.8	100.0	3650
TOT								7.7		14521
PCT	6.2	12.5	59.6	20.5	1.1	.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	.5	.6	.8	.7		4.2
NE	.8	1.0	1.2	.7		4.3
E	9.1	6.4	6.8	1.3		3.9
SE	12.2	8.6	6.0	2.1		3.8
S	1.7	1.1	1.4	1.0		4.9
SW	.6	.4	2.0	1.3		4.8
W	1.6	1.9	6.8	4.7		4.9
NW	1.2	1.7	4.3	2.8		4.4
VAR	.0	.0	.0	.0		.0
CALM	2.1	2.4	1.7	.6		3.6
TOT OBS					1570	4.2
TOT PCT	29.8	24.2	31.4	14.7	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	300 499	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.2	.5	*	.1	.0	.0	.1	1.8	
NE	.0	.0	.1	.1	.3	.1	.0	.0	.1	.0	3.0	
E	.0	.0	.1	.5	2.2	.4	.2	.0	.1	.1	20.0	
SE	.0	.0	.1	1.2	1.2	.2	.3	.1	.1	*	25.6	
S	.0	.0	.0	.3	.9	.3	.0	.0	.1	.1	3.6	
SW	.0	.0	.2	.4	.3	.5	.1	.1	.0	.0	2.8	
W	.1	.0	.1	1.3	2.3	1.6	.1	.0	.0	.1	9.0	
NW	.0	.1	.1	1.0	1.2	.5	.2	.0	.0	.0	7.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.2	.4	.3	.0	.0	.1	.0	5.9	
TOT PCT	.1	.1	.6	5.1	9.4	4.0	.9	.1	.4	.3	79.2	1570 100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >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	.7	.7	.7	.7	.7	.7
* OR >5000	.7	.8	.8	.8	.8	.8	.8	.8
* OR >3500	1.6	1.8	1.8	1.8	1.8	1.8	1.8	1.8
* OR >2000	5.2	5.8	5.9	5.9	5.9	5.9	5.9	5.9
* OR >1000	11.6	14.3	15.2	15.2	15.2	15.2	15.2	15.2
* OR >600	14.3	19.0	20.3	20.3	20.3	20.3	20.3	20.4
* OR >300	14.3	19.3	20.7	20.8	20.9	20.9	20.9	20.9
* OR >150	14.3	19.5	20.9	20.9	21.0	21.0	21.0	21.1
* OR > 0	14.3	19.5	20.9	21.0	21.1	21.1	21.1	21.1

TOTAL NUMBER OF OBS: 1600 PCT FREQ NH <5/8: 78.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
10.5	18.4	22.4	17.0	10.6	6.7	5.2	3.3	5.9	*	1751

ANNUAL

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

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR 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	
<1/2	NO PCP	.0	*	.0	*	.0	.0	*	*	.0	.0	.1	
	TOT %	.0	*	.0	*	.0	.0	.1	*	.0	.0	.1	
	PCP	*	.0	.0	.0	.0	*	.0	.0	.0	.0	.1	
1/2<1	NO PCP	*	*	.1	.1	.0	.1	*	*	.0	*	.3	
	TOT %	*	*	.1	.1	.0	.1	*	*	.0	*	.4	
	PCP	.0	.0	*	*	*	*	.1	.0	.0	*	.2	
1<2	NO PCP	.1	.1	.3	.3	.1	.2	.1	.1	.0	.1	1.6	
	TOT %	.1	.1	.3	.4	.1	.2	.2	.1	.0	.1	1.7	
	PCP	*	*	.1	.1	*	.1	.2	.1	.0	.0	.7	
2<5	NO PCP	*	.1	.3	.3	.1	.1	.2	.1	.0	*	1.1	
	TOT %	*	.1	.3	.4	.1	.2	.4	.2	.0	*	1.8	
	PCP	.1	.2	.5	.5	.4	.4	1.1	.8	.0	.1	4.0	
5<10	NO PCP	1.2	2.3	7.1	7.6	3.1	2.1	3.3	3.3	.0	1.1	31.1	
	TOT %	1.3	2.5	7.5	8.1	3.5	2.5	4.4	4.1	.0	1.2	35.1	
	PCP	*	*	.2	.2	*	.2	.4	.3	.0	*	1.3	
10+	NO PCP	2.0	3.4	14.0	16.2	4.1	3.7	7.5	6.3	.0	2.9	59.6	
	TOT %	2.0	3.4	14.2	16.4	4.1	3.9	7.8	6.6	.0	3.0	60.8	
	TOT OBS												5066
	TOT PCT	3.6	6.2	22.5	25.4	7.8	6.9	12.9	11.0	.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	*	.2	
<1/2	4-10	*	.1	.1	.2	*	.1	.2	.1	.0		.7	
	11-21	*	*	*	*	.0	.0	*	*	.0		.1	
	22+	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	TOT %	*	.1	.2	.2	.1	.1	.3	.1	.0	*	1.1	
	0-3	.0	.0	.0	.0	.0	.0	*	.0	.0	*	*	
1/2<1	4-10	*	*	*	*	.0	*	*	*	.0		.1	
	11-21	.0	.0	*	*	.0	*	*	*	.0		.1	
	22+	.0	.0	.0	.0	.0	*	.0	.0	.0		*	
	TOT %	*	*	*	*	.0	.1	.1	*	.0	*	.3	
	0-3	.1	*	*	*	*	*	*	*	.0	.1	.3	
1<2	4-10	*	*	.1	.1	.1	.1	.1	*	.0		.7	
	11-21	.0	*	.1	.1	*	*	*	.1	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	*	.0		*	
	TOT %	.1	.1	.3	.3	.1	.2	.2	.1	.0	.1	1.3	
	0-3	*	*	*	.1	*	*	*	*	.0	.1	.3	
2<5	4-10	*	.1	.2	.2	.1	.1	.2	.2	.0		1.2	
	11-21	*	*	.1	.1	*	*	.2	.1	.0		.6	
	22+	.0	.0	*	*	*	*	.0	*	.0		*	
	TOT %	.1	.2	.3	.4	.2	.2	.5	.3	.0	.1	2.2	
	0-3	.1	.3	.3	.4	.2	.1	.2	.3	.0	1.0	3.0	
5<10	4-10	.7	1.1	2.7	2.9	1.5	1.1	1.9	1.8	.0		13.6	
	11-21	.1	.2	1.6	1.6	.3	.5	.9	.7	.0		5.6	
	22+	*	*	*	*	*	*	.1	.1	.0		.3	
	TOT %	.9	1.5	4.6	4.9	2.1	1.6	3.1	2.8	.0	1.0	22.5	
	0-3	.8	1.1	1.3	1.3	1.1	1.0	1.4	1.2	.0	4.9	14.0	
10+	4-10	1.5	3.0	11.5	12.2	4.0	2.7	4.8	4.5	.0		44.1	
	11-21	.1	.5	4.2	4.8	1.1	.5	1.7	1.3	.0		14.1	
	22+	*	.0	*	.1	*	*	.1	.1	.0		.3	
	TOT %	2.4	4.6	17.0	18.3	6.1	4.2	8.0	7.1	.0	4.9	72.7	
	TOT OBS												9062
	TOT PCT	3.6	6.4	22.4	24.2	8.5	6.3	12.1	10.4	.0	6.0	100.0	

ANNUAL

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

AREA 0013 SOUTHEAST JAVA SEA
6.2S 112.9E

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	.6	1.1	5.8	9.6	4.3	1.4	.3	.6	.3	23.9	76.1	434
06Z09	.0	.0	.5	4.7	9.5	3.6	.7	.0	.1	.0	19.4	80.6	436
12Z15	.0	.0	.5	3.8	6.0	3.3	.4	.0	.6	.2	14.8	85.2	407
18Z21	.3	.0	.3	4.6	8.9	4.2	1.2	.2	.2	.4	20.3	79.7	442
TOT													1719
PCT	.1	.1	.5	4.9	8.6	3.7	1.0	.1	.4	.2	19.6	80.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00Z03	.9	.4	1.8	1.5	22.8	72.5	1963
06Z09	1.3	.3	1.7	2.7	23.6	70.4	1816
12Z15	1.0	.4	1.4	2.4	23.0	71.8	3253
18Z21	.9	.2	1.2	1.8	27.0	68.9	2347
TOT							9379
PCT	1.0	.3	1.5	2.1	24.0	71.0	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	1.8	9.2	17.1	73.7	408
06Z09	.1	.6	6.7	13.8	79.5	415
12Z15	.0	.5	6.7	10.0	83.3	376
18Z21	.3	.5	6.3	16.5	77.1	401
TOT						1600
PCT	.1	.8	7.4	14.3	78.3	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	.1	.5	.3	.2	.0		1.0
85/89	.0	.0	.0	.2	1.8	6.5	2.6	.7		11.8
80/84	.0	.0	.0	.3	3.2	28.7	35.2	9.4		76.8
75/79	.0	.0	.0	.0	.2	2.5	4.4	3.1		10.2
70/74	.0	.0	.0	.0	.0	.0	*	.1		.1
TOTAL									3289	100.0
PCT	.0	.0	.0	.6	5.7	37.9	42.4	13.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	*	*	.3	.1	.1	.1	.2	.2	.0	*
	.4	1.0	3.1	2.2	.8	.4	1.5	1.7	.0	.8
	3.0	4.1	17.2	20.9	5.4	4.8	9.2	8.5	.0	3.5
	.3	.3	1.4	2.6	1.8	1.4	1.3	1.0	.0	.2
	.0	.0	*	.0	.0	*	*	.0	.0	.0
PCT	3.7	5.5	22.1	25.8	8.2	6.7	12.2	11.5	.0	4.5

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00Z03	95	89	87	82	79	76	72	82.3	3152
06Z09	95	90	88	83	79	77	74	83.3	2876
12Z15	92	86	84	82	79	77	72	81.8	4805
18Z21	93	85	83	81	78	76	72	80.8	3689
TOT	95	89	86	82	78	76	72	82.0	14522

TABLE 16

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	.4	4.6	39.5	40.0	15.5	82	869
06Z09	.0	1.5	14.2	46.2	29.7	8.5	77	752
12Z15	.0	.5	3.7	36.0	45.3	14.5	82	987
18Z21	.0	.5	1.8	28.4	54.0	15.3	83	950
TOT	0	22	197	1268	1550	521	81	3558

ANNUAL

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

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.9E

TABLE 17

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

AIR-SEA TMP DIF	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	.0	*
9/10	.0	.0	.0	*	*	.1	.1	7	.0	.2
7/8	.0	.0	.0	.1	.2	.3	*	24	.0	.6
6	.0	.0	.0	.1	*	.3	.0	17	.0	.4
5	.0	.0	.0	.1	.3	.2	.0	35	.0	.9
4	.0	.0	*	.7	1.5	.2	.0	94	*	2.4
3	.0	.0	.1	.8	1.5	.2	.0	102	*	2.5
2	.0	.0	.4	4.9	2.3	.2	.0	289	.1	7.1
1	.0	.0	.9	7.3	1.8	.1	.0	390	.3	9.7
0	.0	*	2.9	20.0	1.6	.1	.0	970	.6	24.1
-1	.0	.0	2.6	10.2	1.1	.0	.0	555	.3	13.6
-2	*	.2	4.8	14.5	.5	.0	.0	821	.3	19.8
-3	.0	*	2.1	3.4	.1	.0	.0	228	*	5.6
-4	*	.3	2.9	3.3	*	.0	.0	260	*	6.5
-5	.0	.3	1.5	1.0	.0	.0	.0	116	.0	2.9
-6	.0	.1	.6	.2	.0	.0	.0	36	*	.9
-7/-8	*	.3	.5	.1	.0	.0	.0	34	*	.9
-9/-10	*	*	.1	*	.0	.0	.0	5	.0	.1
-11/-13	*	.0	.0	.0	.0	.0	.0	2	.0	*
TOTAL								3995		
PCT	.2	1.2	19.3	66.3	11.3	1.6	.1	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	.0	.4	.0	.0	.0	.0	.4
1-2	.3	.9	.1	.0	.0	.0	1.3
3-4	.0	.2	.0	.0	.0	.0	.2
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	1.5	.2	.0	.0	.0	2.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.5	.0	.0	.0	.0	.7
1-2	.1	2.0	.1	.0	.0	.0	2.1
3-4	.0	.4	.0	.0	.0	.0	.4
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.9	.2	.0	.0	.0	3.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.4	.2	.0	.0	.0	1.7
1-2	.4	9.2	3.2	.0	.0	.0	12.7
3-4	.0	2.0	5.2	.0	.0	.0	7.2
5-6	.1	.3	2.2	.0	.0	.0	2.6
7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	12.9	11.2	.0	.0	.0	24.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.5	.1	.0	.0	.0	2.2
1-2	.4	9.3	4.2	.0	.0	.0	13.9
3-4	.0	2.8	7.3	.1	.0	.0	10.2
5-6	.0	.5	4.2	.2	.0	.0	4.9
7	.0	.0	.7	.1	.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	1.0	14.1	16.4	.5	.0	.0	32.1

PERIOD: (OVER-ALL) 1963-1973

ANNUAL

TABLE 18 (CONT)

AREA 0013 SOUTHEAST JAVA SEA
6.2S 112.9E

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	.4	.1	.0	.0	.0	.0	.5	.0	.2	.0	.0	.0	.0	.2
1-2	.3	1.6	.6	.0	.0	.0	2.5	.5	1.6	.0	.0	.0	.0	2.1
3-4	.0	*	.2	.0	.0	.0	.2	.0	.2	.2	.0	.0	.0	.4
5-6	.0	.1	.3	.0	.0	.0	.4	.0	.2	.0	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	1.9	1.1	.0	.0	.0	3.7	.5	2.2	.2	.2	.0	.0	3.1

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.5	1.1	.0	.0	.0	.0	1.6	.2	.9	.1	.0	.0	.0	1.2	
1-2	.3	4.7	1.5	.0	.0	.0	6.4	1.0	2.3	1.2	.0	.0	.0	4.5	
3-4	.0	.9	3.2	.4	.0	.0	4.5	.0	.9	1.8	.0	.0	.0	2.7	
5-6	.0	.0	1.1	.3	.0	.0	1.4	.0	.1	.8	.0	.0	.0	.9	
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	*	.0	.0	.0	*	
8-9	.0	.0	.2	.1	.0	.0	.3	.0	.0	.0	*	.2	.0	.2	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	6.7	6.1	.7	.0	.0	14.3	1.2	4.2	3.9	*	.4	.0	9.8	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	9.3	6.1	.4	.0	.0	.0	15.8	
1-2	3.4	31.4	10.8	.0	.0	.0	45.6	
3-4	.0	7.4	17.8	.5	.0	.0	25.7	
5-6	.1	1.2	8.8	.4	.0	.0	10.5	
7	.0	.0	1.2	.3	.0	.0	1.5	
8-9	.0	.0	.2	.2	.2	.0	.7	
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	12.8	46.1	39.3	1.4	.4	.0	100.0	1025

PERIOD: (OVER-ALL) 1950-1970

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	9.3	31.1	20.3	6.3	1.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1037	2
6-7	.3	1.5	6.3	4.8	1.6	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	222	4
8-9	.0	.2	.2	.6	.4	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	6
10-11	.0	.7	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	2
12-13	.0	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	3
>13	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDET	8.9	1.6	1.2	.6	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	173	1
TOTAL																				1474	3
PCT	18.5	35.1	28.2	12.6	3.8	1.5	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

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

AREA 0013 SOUTHEAST JAVA SEA
6.2S 112.9E

TABLE 20

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

SEA TMP DL	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	.1	.2	.2	.4	.8	.1	.0	.0	.1	.0	.0	.7	25	.2
87/88	1.9	.6	2.6	3.5	1.8	.6	.3	.1	.1	1.6	3.1	6.9	219	1.6
85/86	11.7	10.7	14.5	23.1	18.3	7.8	1.8	.3	1.7	6.5	23.1	21.1	1473	11.2
83/84	34.0	34.7	36.4	49.0	49.0	37.7	12.1	5.9	9.3	23.2	51.4	43.9	4258	32.2
81/82	42.9	43.5	39.2	20.9	25.9	44.4	60.3	51.8	54.4	49.8	19.7	23.3	5358	40.6
79/80	8.9	8.9	5.9	2.7	3.0	7.9	21.5	34.4	30.8	8.2	2.4	3.3	1595	12.1
77/78	1.0	1.2	1.2	.2	.7	1.0	3.1	6.1	3.3	.7	.2	.9	225	1.7
75/76	.0	.2	.0	.2	.3	.3	.9	1.2	.4	.2	.2	.0	45	.3
73/74	.0	.0	.0	.0	.2	.2	.2	.0	.0	.0	.0	.0	6	*
71/72	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	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	1234	1222	1114	1172	1200	1086	1200	1285	1070	1065	1102	451	13201	100.0
MEAN	82.6	82.4	82.8	83.6	83.2	82.4	81.2	80.6	81.0	82.3	83.6	83.6	82.4	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1011	1010	1009	1008	1010	1009	1009	1008	1009	555
FEB	1010	1010	1009	1008	1009	1010	1009	1009	1009	553
MAR	1010	1010	1009	1008	1010	1009	1009	1008	1009	519
APR	1010	1009	1009	1008	1009	1010	1009	1009	1009	443
MAY	1009	1009	1008	1009	1009	1010	1009	1009	1009	578
JUN	1010	1010	1009	1009	1010	1010	1010	1010	1010	516
JUL	1012	1011	1010	1009	1010	1011	1011	1010	1010	449
AUG	1011	1011	1010	1009	1010	1011	1011	1010	1010	481
SEP	1012	1011	1011	1009	1010	1010	1010	1010	1010	380
OCT	1011	1011	1009	1009	1010	1010	1010	1010	1010	435
NOV	1011	1009	1009	1008	1009	1010	1009	1009	1009	392
DEC	1010	1009	1009	1007	1009	1009	1009	1008	1009	352
ANN	1011	1010	1009	1008	1010	1010	1010	1009	1010	5633
OBS	810	506	634	658	926	681	709	705		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	1002	1003	1006	1008	1009	1011	1013	1013	1014
FEB	1004	1005	1006	1008	1009	1011	1013	1014	1015
MAR	1003	1004	1006	1008	1009	1010	1012	1013	1014
APR	1003	1004	1005	1008	1009	1010	1013	1014	1015
MAY	1003	1004	1005	1007	1009	1010	1013	1014	1015
JUN	1004	1004	1006	1008	1010	1011	1012	1014	1015
JUL	1004	1006	1008	1009	1010	1011	1013	1014	1015
AUG	1005	1006	1008	1009	1010	1011	1014	1015	1016
SEP	1004	1005	1006	1009	1010	1012	1014	1015	1017
OCT	1005	1006	1007	1009	1010	1011	1014	1014	1016
NOV	1005	1005	1006	1008	1009	1010	1012	1014	1015
DEC	1004	1004	1005	1007	1009	1010	1012	1013	1014

JANUARY

PERIOD: (PRIMARY) 1917-1969
(OVER-ALL) 1859-1969

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.1E

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 BLWG	DUST SNOW	NO SIG WEA
N	28.0	.0	.0	.0	.0	.0	.0	28.0	.0	.0	.0	.0	.0		.0	72.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	23.5	.0	.0	.0		.0	76.5
SE	.0	.0	.0	.0	.0	.0	.0	.0	28.6	.0	.0	.0	.0		.0	71.4
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
SW	5.6	1.4	.0	.0	.0	.0	.0	6.9	.0	.0	.0	.0	.0		.0	93.1
W	6.2	4.7	2.5	.0	.0	.0	.0	13.4	.0	8.3	1.4	.0	1.1		.0	75.7
NW	7.0	3.5	.6	.0	.0	.0	.0	11.1	7.0	.6	.0	.0	.6		.0	80.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	7.1	.0	.0	.0	.0	.0	.0	7.1	7.1	14.3	.0	.0	.0		.0	71.4
TOT PCT	6.7	3.0	1.2	.0	.0	.0	.0	10.9	3.0	5.5	.6	.0	.6		.0	79.4
TOT OBS:	165															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER 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	8.0	8.0	.0	.0	.0	.0	.0	16.0	6.0	.0	.0	.0	.0		.0	78.0
06&09	4.1	2.0	.0	.0	.0	.0	.0	6.1	2.0	.0	2.0	.0	.0		.0	89.8
12&15	5.9	.0	2.9	.0	.0	.0	.0	8.8	2.9	20.6	.0	.0	2.9		.0	64.7
18&21	8.8	.0	2.9	.0	.0	.0	.0	11.8	.0	5.9	.0	.0	.0		.0	82.4
TOT PCT	6.6	3.0	1.2	.0	.0	.0	.0	10.8	3.0	5.4	.6	.0	.6		.0	79.6
TOT OBS:	167															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.7	3.2	.3	.1	.0	.0		4.3	6.5	4.9	6.8	.0	5.6	.0	2.1	5.0	6.7
NE	.6	1.2	.0	.0	.0	.0		1.8	4.4	1.2	2.5	.0	4.9	.0	2.1	.0	1.5
E	1.6	1.4	.2	.0	.0	.0		3.3	4.2	1.9	3.7	2.2	2.8	4.8	4.3	.0	4.5
SE	.1	1.0	.0	.0	.0	.0		1.1	4.9	3.4	.0	.7	.0	3.2	.0	.0	.0
S	.0	.8	.0	.1	.0	.0		.9	8.0	.9	2.5	.0	.7	.0	.0	.0	1.5
SW	1.2	4.4	2.2	.2	.0	.0		8.0	9.1	7.1	8.0	17.6	4.9	6.9	11.7	8.0	6.0
W	3.0	21.6	17.6	1.9	.0	.0		44.2	10.6	38.3	40.7	39.0	50.0	54.8	47.9	45.0	39.6
NW	1.4	16.0	9.1	.9	.0	.0		27.4	9.9	31.2	30.9	34.6	23.9	29.8	14.9	26.0	31.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.0							9.0	.0	11.1	4.9	5.9	7.0	6.5	17.0	16.0	9.0
TOT OBS	83	232	138	15	0	0	468		8.8	81	81	34	71	62	47	25	67
TOT PCT	17.7	49.6	29.5	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	2.8	1.4	.1	.0	.0		4.3	6.5	5.9	3.8	.9	6.3
NE	1.6	.2	.0	.0	.0		1.8	4.4	1.9	3.3	.9	1.1
E	2.8	.4	.0	.0	.0		3.3	4.2	2.8	2.6	4.6	3.3
SE	1.1	.0	.0	.0	.0		1.1	4.9	1.7	.2	1.8	.0
S	.6	.2	.1	.0	.0		.9	8.0	1.7	.5	.0	1.1
SW	3.2	3.5	1.3	.0	.0		8.0	9.1	7.6	9.0	8.9	6.5
W	13.2	22.8	7.5	.6	.0		44.2	10.6	39.5	46.4	51.8	41.0
NW	8.6	15.1	3.7	.0	.0		27.4	9.9	31.0	27.4	20.0	29.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	9.0						9.0	.0	8.0	6.7	11.0	10.9
TOT OBS	201	204	60	3	0	468		8.8	102	105	109	92
TOT PCT	42.9	43.6	12.8	.6	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1917-1969
(OVER-ALL) 1859-1969

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
				WIND SPEED (KNOTS)						
00603	8.0	8.6	53.7	28.4	1.2	.0	.0	8.4	100.0	162
06609	6.7	7.6	44.8	35.2	5.7	.0	.0	9.9	100.0	105
12615	11.0	11.9	49.9	27.5	3.7	.0	.0	8.5	100.0	109
18621	10.9	6.5	52.2	27.2	3.3	.0	.0	8.3	100.0	92
TOT	42	41	232	138	15	0	0	8.8		468
PCT	9.0	8.8	49.6	29.5	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	.0	.0	.0	.9		8.0
NE	.0	.0	.0	.0		.0
E	.9	1.2	.0	.0		1.7
SE	1.5	.0	1.5	1.2		5.3
S	.0	.0	.9	.0		7.0
SW	.0	3.7	5.2	5.2		6.0
W	9.1	1.2	16.5	11.3		5.6
NW	3.0	3.7	17.4	4.6		5.9
VAR	.0	.0	.0	.0		.0
CALM	1.2	3.7	3.7	2.4		5.1
TOT OBS	13	11	37	21	82	5.6
TOT PCT	15.9	13.4	45.1	25.6	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	.9	.0	.0	.0	.0	.0	.0	.0	.0	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	
SE	.0	.0	.0	1.2	1.2	.0	.0	.0	.0	.0	1.8	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	
SW	.0	.0	.0	.0	2.7	1.2	.0	.0	.0	.0	10.1	
W	.0	.0	1.2	.0	3.0	.9	.0	.0	.0	.0	32.9	
NW	.0	.0	1.5	1.2	2.7	.3	.0	.0	.0	.0	22.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	1.2	1.2	.0	.0	.0	.0	.0	8.5	
TOT OBS	0	0	3	3	9	2	0	0	0	0	65	82
TOT PCT	.0	.0	3.7	3.7	11.0	2.4	.0	.0	.0	.0	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 >500YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >2000	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
* OR >1000	8.4	12.0	14.5	14.5	14.5	14.5	14.5	14.5
* OR >600	9.6	15.7	18.1	18.1	18.1	18.1	18.1	18.1
* OR >300	10.8	19.3	21.7	21.7	21.7	21.7	21.7	21.7
* OR >150	10.8	19.3	21.7	21.7	21.7	21.7	21.7	21.7
* OR > 0	10.8	19.3	21.7	21.7	21.7	21.7	21.7	21.7
TOTAL	9	16	18	18	18	18	18	18

TOTAL NUMBER OF OBS: 83 PCT FREQ NH <5/8: 78.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
2.4	15.3	21.2	18.8	18.8	10.6	3.5	2.4	7.1	.0	85

JANUARY

PERIOD: (PRIMARY) 1917-1969
(OVER-ALL) 1859-1969

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.1E

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	.3	.0	.0	.0	.0	.0	.0	.3	.0	.0	.6	
	NO PCP	.6	.0	.0	.0	.0	.0	.9	.9	.0	.0	1.8	
	TOT %	.3	.0	.0	.0	.0	.0	.9	1.2	.0	.0	2.4	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.6	
	NO PCP	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.6	
	TOT %	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	1.2	
1<2	PCP	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.6	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.6	
2<5	PCP	.0	.0	.0	.0	.0	.6	.9	.9	.0	.0	2.4	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.6	.9	.9	.0	.0	2.4	
5<10	PCP	.8	.0	.0	.0	.0	.2	2.3	1.7	.0	.6	5.5	
	NO PCP	2.4	.6	.0	.0	.0	.9	6.2	5.6	.0	.6	16.4	
	TOT %	3.2	.6	.0	.0	.0	1.1	3.5	7.3	.0	1.2	21.8	
10+	PCP	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	1.2	
	NO PCP	.3	2.1	2.6	2.1	1.7	9.2	28.5	16.5	.0	7.3	70.3	
	TOT %	.3	2.1	2.6	2.1	1.7	9.2	29.7	16.5	.0	7.3	71.5	
	TOT OBS												165
	TOT PCT	3.8	2.7	2.6	2.1	1.7	10.9	41.8	25.9	.0	8.5	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	.2	.2	.0	.0	.0	.3	
	4-10	.2	.2	.0	.0	.0	.3	.7	.3	.0		1.7	
	11-21	.2	.0	.0	.0	.0	.0	.3	.5	.0		1.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.2	.0	.0	.0	.5	1.2	.9	.0	.0	3.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.3	.0	.0		.3	
	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	.0	.0	.0	.0	.7	.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	.3	.3	.0		.7	
	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	.0	.0	.0	.0	.7	.3	.0	.0	1.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.3	.0	.0	.0	.0	.0	.3	.7	.0		1.4	
	11-21	.0	.0	.0	.0	.0	.3	1.5	.9	.0		2.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.0	.0	.0	.0	.3	1.9	1.5	.0	.0	4.1	
5<10	0-3	.7	.2	.0	.0	.0	.0	.3	.3	.0	.7	2.0	
	4-10	1.3	.2	.0	.0	.0	.2	2.6	2.6	.0		6.8	
	11-21	.0	.0	.0	.0	.0	.4	1.7	2.3	.0		4.4	
	22+	.0	.0	.0	.0	.0	.0	.7	.0	.0		.7	
	TOT %	2.0	.3	.0	.0	.0	.6	5.3	5.1	.0	.7	14.0	
10+	0-3	.3	.7	.0	.0	.0	.5	2.7	1.5	.0	8.2	14.0	
	4-10	1.9	1.0	1.1	1.5	.9	4.9	17.6	14.1	.0		43.0	
	11-21	.2	.0	.3	.0	.0	1.0	11.1	5.1	.0		17.7	
	22+	.2	.0	.0	.0	.2	.3	1.2	.5	.0		2.4	
	TOT %	2.6	1.7	1.5	1.5	1.1	6.7	32.6	21.2	.0	8.2	77.1	
	TOT OBS												293
	TOT PCT	5.2	2.2	1.5	1.5	1.1	8.2	42.3	29.1	.0	8.9	100.0	

JANUARY

PERIOD: (PRIMARY) 1917-1969
(OVER-ALL) 1859-1969

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.1E

TABLE 10

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

HOUR (GMT)	000 149	150 299	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	4.2	8.3	20.8	.0	.0	.0	.0	.0	33.3	66.7	24
06Z09	.0	.0	4.2	.0	8.3	8.3	.0	.0	.0	.0	20.8	79.2	24
12Z15	.0	.0	.0	.0	5.3	5.3	.0	.0	.0	.0	10.5	89.5	19
18Z21	.0	.0	6.3	6.3	6.3	.0	.0	.0	.0	.0	18.8	81.3	16
TOT	0	0	3	3	9	3	0	0	0	0	18	65	83
PCT	.0	.0	3.6	3.6	10.8	3.6	.0	.0	.0	.0	21.7	78.3	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	3.8	.9	1.9	3.8	15.1	74.5	106
06Z09	4.5	1.5	1.5	6.0	9.0	77.6	67
12Z15	1.7	.0	.0	3.3	15.0	80.0	60
18Z21	1.6	.0	.0	3.2	16.1	79.0	62
TOT	4	2	3	12	41	228	295
PCT	3.1	.7	1.0	4.1	13.9	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 <3/8 AND 5+	TOTAL OBS
00Z03	.0	4.2	10.7	16.7	66.7	24
06Z09	.0	4.2	8.3	12.5	79.2	24
12Z15	.0	.0	.0	10.5	89.5	19
18Z21	.0	6.3	12.5	6.3	81.3	16
TOT	0	3	8	10	65	83
PCT	.0	3.6	9.6	12.0	78.3	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	1.2	.0	.0	.0	1	1.2
85/89	.0	.0	.0	.0	1.2	4.9	2.5	.0	7	8.6
80/84	.0	.0	.0	.0	1.2	27.2	40.7	2.5	58	71.6
75/79	.0	.0	.0	.0	.0	2.5	9.9	6.2	15	18.5
TOTAL	0	0	0	0	3	28	43	7	81	100.0
PCT	.0	.0	.0	.0	3.7	34.6	53.1	8.6		

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	.9	.3	.0	.0
	.0	.0	1.2	.0	.0	.0	6.2	1.2	.0	.0
	.0	.0	.0	1.5	.9	8.6	27.8	24.1	.0	8.6
	.9	.0	.9	1.5	.0	1.9	7.1	4.9	.0	1.2
	.9	.0	2.2	3.1	.9	10.5	42.0	30.6	.0	9.9

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00Z03	92	88	86	82	77	74	73	81.8	161
06Z09	95	94	87	82	77	75	75	82.2	103
12Z15	87	85	85	82	79	75	75	81.7	109
18Z21	86	84	83	81	77	76	76	81.2	92
TOT	95	88	86	82	77	75	73	81.7	465

TABLE 16

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	29.2	54.2	16.7	83	24
06Z09	.0	.0	9.1	54.5	36.4	.0	77	22
12Z15	.0	.0	5.3	21.1	68.4	5.3	81	19
18Z21	.0	.0	.0	31.3	56.3	12.5	82	16
TOT	0	0	3	28	43	7	81	81

JANUARY

PERIOD: (PRIMARY) 1917-1969
(OVER-ALL) 1859-1969

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.1E

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
9/10	.0	.0	.0	.6	.0	1	.0	.6
5	.0	.0	.0	.0	.6	1	.0	.6
4	.0	.0	.0	1.3	.0	2	.0	1.3
3	.0	.0	.0	.6	.0	1	.0	.6
2	.0	.0	6.2	2.5	.0	14	.0	8.8
1	.0	.0	6.9	1.3	.0	13	.6	7.5
0	.0	1.9	21.3	.6	.0	38	.0	23.8
-1	.0	2.5	7.5	.0	.0	16	.0	10.0
-2	1.9	4.4	18.1	.6	.0	40	.0	25.0
-3	.0	1.3	2.5	.0	.0	6	.0	3.8
-4	.0	7.5	5.0	.0	.0	20	.0	12.5
-5	.0	1.3	.0	.0	.0	2	.0	1.3
-6	.6	2.5	.0	.0	.0	5	.0	3.1
-7/-8	.6	.0	.0	.0	.0	1	.0	.6
TOTAL	5	34	108	12	1	160	1	159
PCT	3.1	21.3	67.5	7.5	.6	100.0	.6	99.4

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

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

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	.4	.0	.0	.0	.0	.4
3-4	.0	.0	.0	.0	.0	.0	.0
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	.0	2.5	.0	.0	.0	.0	2.5

PERIOD: (OVER-ALL) 1963-1969

JANUARY

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.1E

TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.3	.0	.0	.0	.0	1.3	1.7	8.5	.0	.0	.0	.0	10.2
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.7	3.8	.0	.0	.0	5.5
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	.0	1.3	.0	.0	.0	.0	1.3	1.7	10.2	3.8	.0	.0	.0	15.7

	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	1.7	.0	.0	.0	.0	1.7	
1-2	.0	18.2	6.8	.0	.0	.0	25.0	1.7	4.2	5.1	.0	.0	.0	11.0	
3-4	.0	3.4	9.7	.0	.0	.0	13.1	.0	6.8	1.7	.0	.0	.0	8.5	
5-6	.0	.0	2.5	.0	.0	.0	2.5	.0	.0	4.2	.0	.0	.0	4.2	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	21.6	19.1	.0	.0	.0	40.7	1.7	12.7	11.0	.0	.0	.0	25.4	89.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	10.2	1.7	.0	.0	.0	.0	11.9	
1-2	3.4	33.9	11.9	.0	.0	.0	49.2	
3-4	.0	11.9	16.9	.0	.0	.0	28.8	
5-6	.0	3.4	6.8	.0	.0	.0	10.2	
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	13.6	50.8	35.6	.0	.0	.0	100.0	59

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.6	30.3	17.1	7.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	44	3
6-7	1.3	1.3	11.8	9.2	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	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	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	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	11.8	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	0
TOTAL	12	27	23	13	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	76	3
PCT	15.8	35.5	30.3	17.1	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1922-1972
(OVER-ALL) 1856-1972

AREA 0014 NORTHEAST JAVA SEA
4.7S 113.9E

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	3.3	.0	.0	.0	.0	.0	.0	3.3	5.0	.0	.0	.0	.0	.0	91.7
NE	4.3	.0	.0	.0	.0	.0	.0	4.3	.0	.0	.0	.0	.0	.0	95.7
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	17.6	.0	.0	.0	.0	.0	17.6	.0	.0	.0	.0	.0	.0	82.4
SW	1.4	7.2	.0	.0	.0	.0	.0	8.7	.0	.0	.0	.0	.0	.0	91.3
W	3.5	5.0	.0	.0	.0	.0	.0	8.5	2.6	1.4	.0	.0	.0	.0	87.2
NW	3.6	.8	1.6	.0	.0	.0	.0	6.1	.4	4.9	.0	.0	.0	.0	88.7
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	3.0	3.0	.5	.0	.0	.0	.0	6.4	1.5	2.0	.0	.0	.0	.0	90.1
TOT OBS:	203														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.2	6.3	.0	.0	.0	.0	.0	9.5	3.2	.0	.0	.0	.0	.0	87.3
06&09	5.8	3.8	.0	.0	.0	.0	.0	9.6	.0	.0	.0	.0	.0	.0	90.4
12&15	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	.0	.0	.0	.0	97.7
18&21	2.1	.0	2.1	.0	.0	.0	.0	4.2	.0	8.3	.0	.0	.0	.0	87.5
TOT PCT	2.9	2.9	.5	.0	.0	.0	.0	6.3	1.4	1.9	.0	.0	.0	.0	90.3
TOT OBS:	207														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.9	5.4	1.7	.0	.0	.0		9.0	7.0	10.1	14.3	3.5	5.0	1.9	7.9	4.5	15.6
NE	2.2	3.9	.5	.0	.0	.0		6.5	5.6	5.8	8.4	8.3	7.0	1.9	7.9	4.5	7.4
E	.6	1.5	.1	.0	.0	.0		2.2	5.7	1.3	1.9	2.8	2.0	1.0	2.6	4.5	3.3
SE	.7	1.5	.0	.0	.0	.0		2.2	4.5	.0	1.9	6.3	2.0	2.9	1.3	.0	4.1
S	.3	1.2	.2	.0	.0	.0		1.6	5.9	1.0	.6	4.9	.0	7.2	.0	.0	.0
SW	1.4	5.1	2.2	.1	.0	.0		8.9	8.1	5.5	10.4	3.5	14.0	9.1	14.5	6.8	7.4
W	3.1	19.3	11.7	.1	.0	.0		34.3	9.5	33.4	29.5	36.8	42.0	37.0	36.8	29.5	31.1
NW	3.8	14.2	7.3	.0	.0	.0		25.4	8.4	27.3	27.6	31.3	22.0	23.6	15.8	40.9	21.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.9							9.9	.0	15.6	5.2	2.8	6.0	15.4	13.2	9.1	9.8
TOT OBS	99	215	98	1	0	0	413		7.4	77	77	36	50	52	38	22	61
TOT PCT	24.0	52.1	23.7	.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	5.3	3.2	.5	.0	.0		9.0	7.0	12.2	4.4	4.4	12.7
NE	4.7	1.7	.1	.0	.0		6.5	5.6	7.1	7.6	4.4	6.6
E	1.6	.5	.1	.0	.0		2.2	5.7	1.6	2.3	1.7	3.6
SE	2.0	.2	.0	.0	.0		2.2	4.5	1.0	3.8	2.2	3.0
S	1.2	.4	.0	.0	.0		1.6	5.9	.8	2.0	4.2	.0
SW	4.4	3.6	.8	.0	.0		8.9	8.1	8.0	9.6	11.4	7.2
W	11.4	18.3	4.5	.0	.0		34.3	9.5	31.5	39.8	36.9	30.7
NW	10.1	14.3	.9	.0	.0		25.4	8.4	27.4	25.9	20.3	26.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	9.9						9.9	.0	10.4	4.7	14.4	9.6
TOT OBS	209	175	29	0	0	413		7.4	154	86	90	83
TOT PCT	50.6	42.4	7.0	.0	.0		100.0		100.0	100.0	100.0	100.0

FEBRUARY

PERIOD: (PRIMARY) 1922-1972
(OVER-ALL) 1856-1972

AREA 0014 NORTHEAST JAVA SEA
4.7S 113.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
				WIND SPEED (KNOTS)						
00603	10.4	17.5	44.8	26.6	.6	.0	.0	7.7	100.0	154
06609	4.7	15.1	50.0	30.2	.0	.0	.0	8.4	100.0	86
12615	14.4	7.8	54.4	23.3	.0	.0	.0	7.1	100.0	90
18621	9.6	13.3	65.1	12.0	.0	.0	.0	6.3	100.0	83
TOT	41	58	215	98	1	0	0	7.4		413
PCT	9.9	14.0	52.1	23.7	.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	1.2	.0	.0	.9		3.4
NE	1.2	.0	1.2	1.2		4.6
E	.0	.0	.0	2.5		8.0
SE	1.2	.0	.3	.0		1.2
S	1.2	.9	.2	.9		4.5
SW	.0	.3	2.5	.3		6.3
W	3.4	3.7	20.7	9.9		5.9
NW	1.5	9.9	12.7	12.7		5.8
VAR	.0	.0	.0	.0		.0
CALM	1.2	3.7	2.5	1.2		4.5
TOT OBS	9	15	33	24	81	5.6
TOT PCT	11.1	18.5	40.7	29.6	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	.9	.0	.0	.0	.0	.0	1.2	
NE	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	2.5	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	
S	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	3.1	
SW	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	2.8	
W	.0	.0	2.2	5.2	7.7	.0	.6	.0	.0	.0	21.9	
NW	.0	1.2	.3	.9	9.9	1.2	.6	.0	.0	.0	22.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.6	
TOT OBS	0	1	2	7	15	1	1	0	0	0	54	81
TOT PCT	.0	1.2	2.5	8.6	18.5	1.2	1.2	.0	.0	.0	66.7	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	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
* OR >2000	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
* OR >1000	17.9	20.2	20.2	20.2	20.2	20.2	20.2	20.2
* OR >600	26.2	28.6	28.6	28.6	28.6	28.6	28.6	28.6
* OR >300	27.4	31.0	31.0	31.0	31.0	31.0	31.0	31.0
* OR >150	28.6	32.1	32.1	32.1	32.1	32.1	32.1	32.1
* OR > 0	28.6	32.1	32.1	32.1	32.1	32.1	32.1	32.1
TOTAL	24	27	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
3.3	13.2	12.1	24.2	14.3	13.2	6.6	1.1	12.1	.0	91

FEBRUARY

PERIOD: (PRIMARY) 1922-1972
(OVER-ALL) 1856-1972

AREA 0014 NORTHEAST JAVA SEA
4.7S 113.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR 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	.5	.0	.0	.0	.5	
	TOT %	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5	
1/2<1	PCP	.0	.0	.0	.0	.0	.1	.4	.0	.0	.0	.5	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.1	.4	.0	.0	.0	.5	
1<2	PCP	.2	.2	.0	.0	.0	.0	.5	.0	.0	.0	1.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.2	.0	.0	.0	.0	.5	.0	.0	.0	1.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.9	.1	.0	.0	1.0	
	NO PCP	.0	.0	.0	.0	.0	1.0	.0	.0	.0	1.0	2.0	
	TOT %	.0	.0	.0	.0	.0	1.0	.9	.1	.0	1.0	3.0	
5<10	PCP	.0	.0	.0	.0	.0	.5	.4	.1	.0	.0	1.0	
	NO PCP	3.1	1.0	1.2	1.2	.0	2.9	5.2	6.0	.0	.0	20.2	
	TOT %	3.1	1.0	1.2	1.2	.0	3.0	5.5	6.2	.0	.0	21.2	
10+	PCP	.0	.0	.0	.0	.4	.1	.9	1.6	.0	.0	3.0	
	NO PCP	4.1	4.4	1.5	1.8	1.7	4.9	26.1	22.5	.0	4.4	70.9	
	TOT %	4.1	4.4	1.5	1.8	2.1	4.4	27.0	24.1	.0	4.4	73.9	
	TOT OBS												203
	TOT PCT	7.4	5.7	2.7	3.1	2.1	8.5	34.7	30.4	.0	5.4	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	.3	.0	.0	.3	.0	.0		.7	
	11-21	.0	.0	.0	.0	.0	.3	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.3	.0	.3	.3	.0	.0	.0	1.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.1	.2	.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	.0	.0	.1	.2	.0	.0	.0	.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.3	.3	.0	.0	.0	.0	.3	.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 %	.3	.3	.0	.0	.0	.0	.3	.0	.0	.0	1.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	
	4-10	.2	.2	.0	.0	.0	.0	.4	.6	.0		1.3	
	11-21	.3	.0	.0	.0	.0	1.0	.8	.2	.0		2.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.5	.2	.0	.0	.0	1.0	1.2	.7	.0	.7	4.3	
5<10	0-3	.5	.3	.0	.3	.0	.0	.0	.5	.0	.0	1.7	
	4-10	1.6	.3	.8	.5	.0	2.2	2.6	2.6	.0		10.6	
	11-21	.5	.0	.0	.0	.0	.5	1.9	1.4	.0		4.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	2.6	.7	.8	.8	.0	2.6	4.6	4.5	.0	.0	16.6	
10+	0-3	1.9	1.3	.7	.5	.2	.7	1.2	3.7	.0	10.6	20.9	
	4-10	4.1	2.5	.8	.9	.9	2.2	15.0	13.0	.0		39.4	
	11-21	.5	.5	.0	.0	.2	.4	8.6	6.3	.0		16.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	6.5	4.3	1.5	1.4	1.4	3.3	24.8	23.0	.0	10.6	76.8	
	TOT OBS												302
	TOT PCT	9.9	5.5	2.3	2.6	1.4	7.4	31.5	28.2	.0	11.3	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1922-1972
(OVER-ALL) 1856-1972

AREA 0014 NORTHEAST JAVA SEA
4.7S 113.9E

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
00E03	.0	.0	9.1	13.6	18.2	.0	4.5	.0	.0	.0	45.5	54.5	22
06E09	.0	.0	.0	4.3	26.1	.0	.0	.0	.0	.0	30.4	69.6	23
12E15	.0	4.8	.0	4.8	14.3	.0	.0	.0	.0	.0	23.8	76.2	21
18E21	.0	.0	.0	9.1	9.1	4.5	.0	.0	.0	.0	22.7	77.3	22
TOT	0	1	2	7	15	1	1	0	0	0	27	61	88
PCT	.0	1.1	2.3	8.0	17.0	1.1	1.1	.0	.0	.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	.9	.0	1.8	4.5	16.1	76.8	112
06E09	1.5	1.5	.0	4.6	18.5	73.8	65
12E15	.0	.0	.0	3.3	20.0	76.7	60
18E21	1.4	.0	1.4	4.3	13.0	79.7	69
TOT	3	1	3	13	51	235	306
PCT	1.0	.3	1.0	4.2	16.7	76.8	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	9.5	23.8	23.8	52.4	21
06E09	.0	.0	4.8	28.6	66.7	21
12E15	.0	5.0	10.0	15.0	75.0	20
18E21	.0	.0	9.1	13.6	77.3	22
TOT	0	3	10	17	57	84
PCT	.0	3.6	11.9	20.2	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
90/94	.0	.0	.0	.0	1.2	.0	.0	.0	1	1.2
85/89	.0	.0	.0	.0	.0	6.0	.0	.0	5	6.0
80/84	.0	.0	.0	.0	1.2	27.4	47.6	8.3	71	84.5
75/79	.0	.0	.0	.0	.0	.0	7.1	1.2	7	8.3
TOTAL	0	0	0	0	2	28	46	8	84	100.0
PCT	.0	.0	.0	.0	2.4	33.3	54.8	9.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0
	.0	1.2	.0	.0	.9	.3	3.0	.6	.0	.0
	.6	3.6	2.4	2.7	3.3	5.4	27.1	32.4	.0	7.1
	.9	.0	.0	.0	.9	.3	3.6	2.7	.0	.0
	1.5	4.8	2.4	2.7	5.1	6.0	33.6	36.9	.0	7.1

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	90	86	82	77	75	74	81.7	154
06E09	94	93	86	82	77	75	73	82.4	86
12E15	92	85	84	82	79	78	78	81.5	90
18E21	84	83	83	81	78	75	75	80.9	84
TOT	94	90	85	82	78	75	74	81.6	414

TABLE 16

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	28.6	61.9	4.8	81	21
06E09	.0	.0	4.5	54.5	31.8	9.1	79	22
12E15	.0	.0	.0	34.8	56.5	8.7	82	23
18E21	.0	.0	.0	27.3	59.1	13.6	83	22
TOT	0	0	2	32	46	8	81	88

FEBRUARY

PERIOD: (PRIMARY) 1922-1972
(OVER-ALL) 1856-1972

AREA 0014 NORTHEAST JAVA SEA
4.7S 113.9E

TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.5	1	.0	.5
9/10	.0	.0	.0	.0	.5	.0	1	.0	.5
7/8	.0	.0	.0	.0	.5	.0	1	.0	.5
6	.0	.0	.0	.0	1.1	.0	2	.0	1.1
4	.0	.0	.5	1.6	.0	.0	4	.0	2.1
3	.0	.0	.0	1.1	.0	.0	2	.0	1.1
2	.0	.0	4.2	1.6	.0	.0	11	.0	5.8
1	.0	.0	2.1	.5	.0	.0	5	.0	2.6
0	.0	.0	20.5	.5	.0	.0	40	.0	21.1
-1	.0	.0	10.0	.5	.0	.0	20	.0	10.5
-2	.0	10.0	20.5	.5	.0	.0	59	.0	31.1
-3	.0	2.1	2.6	.0	.0	.0	9	.0	4.7
-4	.0	5.3	5.3	.0	.0	.0	20	.0	10.5
-5	.5	4.2	1.1	.0	.0	.0	11	.0	5.8
-6	.0	.0	.5	.0	.0	.0	1	.0	.5
-7/-8	1.6	.0	.0	.0	.0	.0	3	.0	1.6
TOTAL	4		127		4			0	190
		41		13		1	190		
PCT	2.1	21.6	67.3	6.3	2.1	.5	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	.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	1.8	.0	.0	.0	.0	.0	1.8
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	1.8	1.8	.0	.0	.0	.0	3.6

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	.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) 1963-1972

FEBRUARY

TABLE 18 (CONT)

AREA 0014 NORTHEAST JAVA SEA
4.7S 113.9E

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	1.8	.0	.0	.0	.0	1.8
3-4	.0	.0	1.3	.0	.0	.0	1.3	.0	.0	.4	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	1.3	.0	.0	.0	1.3	.0	1.8	.4	.0	.0	.0	2.2

	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	1.8	.0	.0	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	14.3	6.7	.0	.0	.0	21.0	.0	11.2	2.2	.0	.0	.0	13.4	
3-4	.0	6.7	4.9	.0	.0	.0	11.6	.0	7.6	11.2	.0	.0	.0	18.8	
5-6	.0	1.8	8.0	.0	.0	.0	9.8	.0	1.8	2.7	.0	.0	.0	4.5	
7	.0	.0	1.8	.0	.0	.0	1.8	.0	.0	1.8	.0	.0	.0	1.8	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.8	22.8	21.4	.0	.0	.0	46.0	.0	20.5	17.9	.0	.0	.0	38.4	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	10.7	.0	.0	.0	.0	.0	10.7	
1-2	.0	30.4	8.9	.0	.0	.0	39.3	
3-4	.0	14.3	17.9	.0	.0	.0	32.1	
5-6	.0	3.6	10.7	.0	.0	.0	14.3	
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	10.7	48.2	41.1	.0	.0	.0	100.0	56

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	7.6	29.1	19.0	12.7	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	55	3
6-7	.0	.0	2.5	2.5	6.3	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	6
8-9	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	7.6	7.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	1
TOTAL	12	29	17	12	7	2	0	0	0	0	0	0	0	0	0	0	0	0	0	79	3
PCT	15.2	36.7	21.5	15.2	8.9	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1922-1973
(OVER-ALL) 1860-1973

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	4.9	.0	.0	.0	.0	.0	.0	4.9	.0	.0	.0	.0	.0	.0	95.1
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
S	17.4	.0	.0	.0	.0	.0	.0	17.4	13.0	.0	.0	.0	.0	.0	69.6
SW	6.3	12.6	.0	.0	.0	.0	.0	18.9	2.1	4.2	.0	.0	.0	.0	74.7
W	9.1	1.4	.0	.0	.0	.0	.0	10.5	3.6	.7	.0	.0	.0	.0	85.1
NW	2.3	3.1	.0	.0	.0	.0	.0	5.5	3.9	4.7	.0	.0	.0	.0	85.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	5.4	2.7	.0	.0	.0	.0	.0	8.1	2.7	1.6	.0	.0	.0	.0	87.6
TOT OBS:	186														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.6	5.4	.0	.0	.0	.0	.0	8.9	1.8	.0	.0	.0	.0	.0	89.3
06&09	5.0	.0	.0	.0	.0	.0	.0	5.0	7.5	.0	.0	.0	.0	.0	87.5
12&15	2.5	2.5	.0	.0	.0	.0	.0	5.0	.0	2.5	.0	.0	.0	.0	92.5
18&21	8.9	1.8	.0	.0	.0	.0	.0	10.7	1.8	3.6	.0	.0	.0	.0	83.9
TOT PCT	5.2	2.6	.0	.0	.0	.0	.0	7.8	2.6	1.6	.0	.0	.0	.0	88.0
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	1.2	5.1	.6	.5	.0	.0		7.4	7.6	11.0	7.7	8.3	5.0	4.9	8.3	.0	9.3
NE	2.8	4.5	.6	.0	.0	.0		7.9	5.3	4.4	11.3	3.3	5.0	7.6	18.1	3.7	8.6
E	1.6	3.3	.2	.0	.0	.0		5.1	5.1	2.9	4.2	.0	6.0	5.4	4.2	.0	12.1
SE	.7	1.3	.2	.0	.0	.0		2.3	5.3	4.4	4.2	.0	1.0	.9	1.4	.0	2.9
S	1.1	1.3	.0	.0	.0	.0		2.6	4.3	2.9	.7	5.0	3.5	2.7	4.2	.0	2.9
SW	1.5	7.0	1.5	.2	.0	.0		10.2	7.7	9.6	5.6	20.0	13.5	15.6	4.2	15.7	5.7
W	2.1	21.0	7.4	.4	.0	.0		30.8	8.3	21.0	28.2	40.8	39.0	32.6	30.6	44.4	26.4
NW	2.3	14.2	3.7	.6	.0	.0		20.8	8.5	24.6	25.4	15.8	19.0	19.6	18.1	21.3	17.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	12.7							12.7	.0	19.1	12.7	6.7	8.0	10.7	11.1	14.8	14.3
TOT OBS	106	237	58	7	0	0	408		6.6	68	71	30	50	56	36	27	70
TOT PCT	26.0	58.1	14.2	1.7	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (IT)			
WND DIR	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	2.8	.4	.1	.0		7.4	7.6	9.4	6.3	6.3	6.7
NE	5.8	2.1	.0	.0	.0		7.9	5.3	7.9	4.4	11.7	7.2
E	4.0	1.1	.0	.0	.0		5.1	5.1	3.6	3.8	4.9	8.8
SE	1.8	.5	.0	.0	.0		2.3	5.3	4.3	.6	1.1	2.1
S	2.2	.4	.0	.0	.0		2.6	4.3	1.8	4.1	3.3	2.1
SW	5.2	4.0	1.0	.0	.0		10.2	7.7	7.6	15.9	11.1	8.5
W	12.0	17.8	1.0	.0	.0		30.8	8.3	24.6	39.7	31.8	31.4
NW	8.1	11.6	.6	.4	.0		20.8	8.5	25.0	17.8	19.0	18.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	12.7						12.7	.0	15.8	7.5	10.9	14.4
TOT OBS	229	165	12	2	0	408		6.6	139	80	92	97
TOT PCT	56.1	40.4	2.9	.5	.0		100.0		100.0	100.0	100.0	100.0

MARCH

PERIOD: (PRIMARY) 1927-1973
(OVER-ALL) 1860-1973

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	15.8	13.7	55.4	13.7	1.4	.0	.0	6.3	100.0	139
06&09	7.5	7.5	63.8	18.8	2.5	.0	.0	7.7	100.0	80
12&15	10.9	17.4	57.6	12.0	2.2	.0	.0	6.5	100.0	92
18&21	14.4	13.4	57.7	13.4	1.0	.0	.0	6.1	100.0	97
TOT	52	54	237	58	7	0	0	6.6		408
PCT	12.7	13.2	58.1	14.2	1.7	.0	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	1.6	2.6	1.3		5.5
NE	.0	.3	1.3	.7		5.5
E	.0	.0	.0	.7		8.0
SE	.0	.0	.0	.0		.0
S	2.0	1.3	.0	1.0		3.6
SW	.7	.7	5.9	8.6		6.7
W	3.9	9.9	17.8	10.9		5.6
NW	1.3	3.3	5.3	5.9		5.8
VAR	.0	.0	.0	.0		.0
CALM	6.6	1.3	5.3	.0		3.1
TOT OBS	11	14	29	22	76	5.4
TOT PCT	14.5	18.4	38.2	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	1.3	.0	.0	.0	.0	.0	.0	4.3	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
S	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	3.3	
SW	.0	.0	1.3	4.3	.3	3.0	.0	.0	.0	.0	6.9	
W	.0	.0	1.3	4.6	8.6	3.3	.7	.0	.0	.0	24.0	
NW	.0	.0	.0	1.6	1.6	.7	.7	1.3	.0	.0	9.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	11.8	
TOT OBS	0	0	2	9	9	6	1	1	0	0	48	76
TOT PCT	.0	.0	2.6	11.8	11.8	7.9	1.3	1.3	.0	.0	63.2	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
* OR >3500	1.3	1.3	2.5	2.5	2.5	2.5	2.5	2.5
* OR >2000	7.6	8.9	10.1	10.1	10.1	10.1	10.1	10.1
* OR >1000	19.0	21.5	22.8	22.8	22.8	22.8	22.8	22.8
* OR >600	27.8	32.9	34.2	34.2	34.2	34.2	34.2	34.2
* OR >300	27.8	35.4	36.7	36.7	36.7	36.7	36.7	36.7
* OR >150	27.8	35.4	36.7	36.7	36.7	36.7	36.7	36.7
* OR > 0	27.8	35.4	36.7	36.7	36.7	36.7	36.7	36.7
TOTAL	22	28	29	29	29	29	29	29

TOTAL NUMBER OF OBS: 79 PCT FREQ NH <5/8: 63.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
5.7	14.9	18.4	14.9	12.6	11.5	8.0	1.1	12.6	.0	87

MARCH

PERIOD: (PRIMARY) 1922-1973
(OVER-ALL) 1860-1973

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.0E

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	.5	.0	.0	.0	.0	.0	.0	.0	.0	.5	
	TOT %	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.5	
1/2<1	PCP	.3	.0	.0	.0	.0	.0	.0	.3	.0	.0	.5	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.0	.0	.0	.0	.0	.0	.3	.0	.0	.5	
1<2	PCP	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.5	
	NO PCP	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5	
	TOT %	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	1.1	
2<5	PCP	.0	.0	.0	.0	.0	.0	.5	.5	.0	.0	1.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.5	
	TOT %	.0	.0	.0	.0	.0	.0	.8	.8	.0	.0	1.6	
5<10	PCP	.0	.0	.0	.0	.0	2.4	2.8	.1	.0	.0	5.4	
	NO PCP	.8	1.4	1.1	.8	.0	3.2	5.9	3.5	.0	3.2	20.0	
	TOT %	.8	1.4	1.1	.8	.0	5.7	8.8	3.6	.0	3.2	25.4	
10+	PCP	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5	
	NO PCP	4.5	4.2	3.8	.8	2.6	7.2	26.6	12.6	.0	8.1	70.3	
	TOT %	4.5	4.2	3.8	.8	2.6	7.2	27.2	12.6	.0	8.1	70.8	
	TOT OBS												185
	TOT PCT	5.4	6.1	4.9	1.6	3.1	12.8	37.3	17.3	.0	11.4	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	.5	.8	.0	.0	.0	1.3	1.0	.0		3.5	
	11-21	.0	.0	.0	.0	.0	.0	.3	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.5	.8	.0	.0	.0	1.6	1.0	.0	.0	3.8	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.2	.1	.0	.0	.3	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.2	.0	.0	.0	.0	.0	.0	.2	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.0	.0	.0	.0	.0	.2	.2	.0	.0	.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
	4-10	.0	.0	.0	.0	.3	.0	.3	.0	.0		.6	
	11-21	.0	.0	.0	.0	.0	.0	.2	.2	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.3	.0	.8	.2	.0	.0	1.3	
2<5	0-3	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
	4-10	.2	.0	.5	.2	.0	.0	.5	1.0	.0		2.2	
	11-21	.0	.3	.0	.0	.0	.0	.3	.0	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	1.3	.5	.2	.0	.0	.8	1.0	.0	.0	3.8	
5<10	0-3	.0	.3	.3	.0	.0	.2	.5	.3	.0	2.2	3.8	
	4-10	.5	.5	.3	.5	.0	1.3	4.2	2.3	.0		9.6	
	11-21	.0	.0	.0	.0	.0	1.6	1.6	.6	.0		3.8	
	22+	.0	.0	.0	.0	.0	.3	.0	.0	.0		.3	
	TOT %	.5	.8	.6	.5	.0	3.3	6.3	3.3	.0	2.2	17.5	
10+	0-3	1.2	1.5	1.3	.6	1.1	1.1	1.4	1.4	.0	10.9	20.7	
	4-10	4.3	1.8	1.6	1.1	.9	6.1	15.2	11.1	.0		42.0	
	11-21	.6	.2	.3	.0	.0	.2	5.4	3.5	.0		10.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	6.1	3.4	3.2	1.8	2.0	7.4	22.1	16.2	.0	10.8	72.9	
	TOT OBS												314
	TOT PCT	6.9	6.0	5.1	2.4	2.3	10.7	31.8	21.7	.0	13.1	100.0	

PERIOD: (PRIMARY) 1922-1973
(OVER-ALL) 1860-1973

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.0E

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	4.3	4.3	8.7	4.3	.0	.0	.0	.0	21.7	78.3	23
06E09	.0	.0	4.0	12.0	16.0	12.0	.0	.0	.0	.0	44.0	56.0	25
12E15	.0	.0	.0	5.9	11.8	5.9	5.9	.0	.0	.0	29.4	70.6	17
18E21	.0	.0	.0	18.2	9.1	4.5	.0	4.5	.0	.0	36.4	63.6	22
TOT	0	0	2	9	10	6	1	1	0	0	29	58	87
PCT	.0	.0	2.3	10.3	11.5	6.9	1.1	1.1	.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	4.6	.9	.9	3.7	11.9	78.0	109
06E09	5.0	.0	.0	3.3	11.7	80.0	60
12E15	1.4	1.4	1.4	2.9	24.3	68.6	70
18E21	3.7	.0	7.5	4.9	23.5	65.4	81
TOT	12	2	4	12	56	234	320
PCT	3.8	.6	1.3	3.8	17.5	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
00E03	.0	4.8	9.5	14.3	76.2	21
06E09	.0	4.2	16.7	29.2	54.2	24
12E15	.0	.0	13.3	20.0	66.7	15
18E21	.0	.0	21.1	21.1	57.9	19
TOT	0	2	12	17	50	79
PCT	.0	2.5	15.2	21.5	63.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.0	8.9	.0	.0	7	8.9
80/84	.0	.0	.0	.0	1.3	27.8	46.8	3.8	63	79.7
75/79	.0	.0	.0	.0	.0	.0	3.8	7.6	9	11.4
TOTAL	0	0	0	0	1	29	40	9	79	100.0
PCT	.0	.0	.0	.0	1.3	36.7	50.6	11.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	1.9	.0	.0	.0	.0	1.3	2.5	.6	.0	2.5
	3.5	3.5	.6	.0	1.3	13.0	31.0	13.0	.0	13.9
	1.3	.0	.0	.0	.0	1.3	5.7	3.2	.0	.0
	6.6	3.5	.6	.0	1.3	15.5	39.2	16.8	.0	16.5

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	88	86	82	76	75	73	81.9	140
06E09	91	90	87	82	78	76	76	82.5	79
12E15	92	88	85	82	79	79	78	82.1	91
18E21	88	87	84	82	77	75	75	81.3	97
TOT	92	89	86	82	78	75	73	81.9	407

TABLE 16

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	27.3	59.1	13.6	83	22
06E09	.0	.0	4.8	57.1	33.3	4.8	78	21
12E15	.0	.0	5.9	29.4	58.8	5.9	82	17
18E21	.0	.0	.0	27.3	54.5	18.2	84	22
TOT	0	0	2	29	42	9	82	82

MARCH

PERIOD: (PRIMARY) 1922-1973
(OVER-ALL) 1860-1973

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.0E

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
7/8	.0	.0	.0	.0	.6	1	.0	.6
6	.0	.0	.0	.6	.0	1	.0	.6
5	.0	.0	1.2	.0	.6	3	.0	1.9
4	.0	.0	1.2	3.1	.6	8	.0	4.9
3	.0	.0	.6	2.5	.0	5	.0	3.1
2	.0	.0	8.0	3.7	.0	19	.0	11.7
1	.0	.6	3.1	1.2	.0	8	.0	4.9
0	.0	.6	18.5	1.2	.0	33	.0	20.4
-1	.0	1.2	8.6	3.1	.0	21	.0	13.0
-2	.0	3.1	19.8	.0	.0	37	.0	22.8
-3	.0	3.1	3.1	.0	.0	10	.0	6.2
-4	.6	3.1	1.9	.0	.0	9	.0	5.6
-5	1.9	.6	.6	.0	.0	5	.0	3.1
-6	.6	.0	.0	.0	.0	1	.0	.6
-7/-8	.6	.0	.0	.0	.0	1	.0	.6
TOTAL	6	20	108	25	3	162	0	162
PCT	3.7	12.3	66.7	15.4	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	2.8	.0	.0	.0	.0	2.8
1-2	.0	2.8	.0	.0	.0	.0	2.8
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.6	.0	.0	.0	.0	5.6

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) 1963-1973

MARCH

TABLE 18 (CONT)

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.0E

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

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	6.3	.0	.0	.0	.0	6.3
3-4	.0	2.8	4.2	.0	.0	.0	6.9
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	9.0	4.2	.0	.0	.0	13.2

W

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	29.2	5.6	.0	.0	.0	34.7
3-4	.0	2.8	8.3	.0	.0	.0	11.1
5-6	.0	.0	5.6	.0	.0	.0	5.6
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	34.7	19.4	.0	.0	.0	54.2

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	3.5	2.8	.0	.0	.0	6.3	
3-4	.0	.0	6.9	.0	.0	.0	6.9	
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	3.5	9.7	.0	.0	.0	13.2	88.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	10.8	8.1	.0	.0	.0	.0	18.9	
1-2	.0	43.2	8.1	.0	.0	.0	51.4	
3-4	.0	5.4	18.9	.0	.0	.0	24.3	
5-6	.0	.0	5.4	.0	.0	.0	5.4	
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	10.8	56.8	32.4	.0	.0	.0	100.0	37

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	9.1	28.8	12.1	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	36	2
6-7	1.5	3.0	3.0	9.1	6.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
10-11	.0	1.5	.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	18.2	1.5	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	0
TOTAL	19	23	11	9	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66	2
PCT	28.8	34.8	16.7	13.6	6.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1921-1973
(OVER-ALL) 1869-1973

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	4.9	.0	.0	.0	.0	.0	.0	4.9	.0	.0	.0	.0	.0	.0	.0	95.1
NE	3.0	.0	.0	.0	.0	.0	.0	3.0	6.0	7.5	.0	.0	.0	.0	.0	83.6
E	3.2	4.0	.0	.0	.0	.0	.0	7.3	4.5	2.8	.0	.0	.0	.0	.0	85.4
SE	.0	1.5	.0	.0	.0	.0	.0	1.5	.5	3.9	.0	.0	.0	.0	.0	94.2
S	7.4	5.6	.0	.0	.0	.0	.0	13.0	5.6	.0	.0	.0	.0	.0	.0	81.3
SW	.0	.0	.0	.0	.0	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	96.7
W	22.2	.0	.0	.0	.0	.0	.0	22.2	.0	23.6	.0	.0	.0	.0	.0	56.9
NW	26.7	.0	.0	.0	.0	.0	.0	26.7	.0	20.0	.0	.0	.0	.0	.0	66.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.3	.0	.0	.0	.0	.0	.0	5.3	.0	5.3	.0	.0	.0	.0	.0	89.5
TOT PCT	5.0	2.0	.0	.0	.0	.0	.0	6.9	2.5	5.4	.0	.0	.0	.0	.0	85.6
TOT OBS:	202															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER 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	6.4	2.1	.0	.0	.0	.0	.0	8.5	2.1	2.1	.0	.0	.0	.0	87.2
06E09	4.7	2.3	.0	.0	.0	.0	.0	7.0	2.3	2.3	.0	.0	.0	.0	88.4
12E15	5.1	3.4	.0	.0	.0	.0	.0	8.5	3.4	6.5	.0	.0	.0	.0	81.4
18E21	3.6	.0	.0	.0	.0	.0	.0	3.6	1.8	7.3	.0	.0	.0	.0	87.3
TOT PCT	4.9	2.0	.0	.0	.0	.0	.0	6.9	2.5	5.4	.0	.0	.0	.0	85.8
TOT OBS:	204														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.4	4.6	.2	.0	.0	.0		5.3	5.8	7.2	8.7	4.9	3.2	1.6	4.2	3.9	7.0
NE	1.3	9.0	.6	.0	.0	.0		9.8	6.5	9.1	13.3	6.9	10.5	5.8	15.3	9.4	8.2
E	2.8	18.7	6.0	.0	.0	.0		27.5	7.9	26.1	24.0	39.6	24.2	32.1	28.8	25.0	24.7
SE	3.4	15.1	3.0	.0	.0	.0		21.5	7.1	27.2	17.3	25.7	22.6	22.4	16.9	28.1	17.7
S	1.5	3.5	.4	.0	.0	.0		5.4	5.3	2.9	5.3	7.6	4.8	6.7	5.9	6.3	5.1
SW	2.4	3.6	.0	.0	.0	.0		6.0	4.5	8.7	4.0	3.5	11.3	2.9	8.5	.0	6.3
W	1.5	5.8	1.3	.2	.0	.0		8.9	7.3	4.3	16.0	4.2	11.3	8.3	5.1	12.5	8.2
NW	.7	3.1	.3	.0	.0	.0		4.1	6.0	4.3	6.0	2.1	5.6	4.8	3.4	2.3	2.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	11.4							11.4	.0	10.1	5.3	5.6	6.5	15.4	11.9	12.5	20.3
TOT OBS	125	306	58	1	0	0	490		6.1	69	75	36	62	78	59	32	79
TOT PCT	25.5	62.4	11.8	.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	3.9	1.3	.0	.0	.0		5.3	5.8	8.0	3.8	2.7	6.1
NE	5.8	4.1	.0	.0	.0		9.8	6.5	11.3	9.2	9.9	8.6
E	12.1	14.5	.9	.0	.0		27.5	7.9	25.0	29.8	30.7	24.8
SE	10.4	10.9	.3	.0	.0		21.5	7.1	22.0	23.7	20.1	20.7
S	4.1	1.3	.0	.0	.0		5.4	5.3	4.2	5.9	6.4	5.4
SW	4.8	1.2	.0	.0	.0		6.0	4.5	6.3	8.4	5.3	4.5
W	5.5	2.6	.8	.0	.0		8.9	7.3	10.4	8.7	6.9	9.5
NW	2.8	1.3	.0	.0	.0		4.1	6.0	5.2	4.3	4.2	2.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	11.4						11.4	.0	7.6	6.1	13.9	16.0
TOT OBS	298	182	10	0	0	490		6.1	144	98	137	111
TOT PCT	60.8	37.1	2.0	.0	.0		100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1921-1973
(OVER-ALL) 1869-1973

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
				WIND SPEED (KNOTS)						
00603	7.6	10.0	62.5	13.9	.0	.0	.0	6.4	100.0	144
06609	6.1	22.4	60.2	10.2	1.0	.0	.0	6.3	100.0	98
12615	13.9	10.9	63.5	11.7	.0	.0	.0	5.9	100.0	137
18621	18.0	8.1	63.1	10.8	.0	.0	.0	5.8	100.0	111
TOT	56	69	306	58	1	0	0	6.1		490
PCT	11.4	14.1	62.4	11.8	.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	.8	.0	2.8	1.0		5.6
NE	1.0	.0	.3	1.0		5.0
E	4.6	9.0	15.5	4.1		4.8
SE	8.8	14.7	8.5	.0		3.5
S	.0	.0	5.2	1.0		6.7
SW	.0	.0	1.5	.0		5.6
W	1.8	1.0	4.9	1.0		4.7
NW	.5	.0	.5	.0		4.0
VAR	.0	.0	.0	.0		.0
CALM	5.2	2.1	3.1	.0		3.0
TOT OBS	22	26	41	8	97	4.3
TOT PCT	22.7	26.8	42.3	8.2	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	1.8	.0	.0	.0	.0	.0	2.8	
NE	.0	.0	.0	1.0	.0	.0	.3	.0	.0	.0	1.0	
E	.0	.0	.0	.0	3.9	.0	1.8	.0	.0	.0	27.6	
SE	.0	.0	.0	.0	1.5	1.0	1.0	.0	.0	.0	28.4	
S	.0	.8	.0	1.0	2.6	.0	.0	.0	.0	.0	1.8	
SW	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	1.0	
W	.0	.0	.0	2.1	.8	.0	.0	.0	.0	.0	5.9	
NW	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	1.0	1.0	.0	.0	.0	.0	8.2	
TOT OBS	0	1	0	4	12	2	3	0	0	0	75	97
TOT PCT	.0	1.0	.0	4.1	12.4	2.1	3.1	.0	.0	.0	77.3	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	.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	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
* OR >1000	15.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
* OR >600	19.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4
* OR >300	19.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4
* OR >150	19.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4
* OR > 0	19.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4
TOTAL	19	22	22	22	22	22	22	22

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

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
8.7	12.6	25.2	20.4	9.7	9.7	4.9	3.9	4.9 .0	103

APRIL

PERIOD: (PRIMARY) 1921-1973
(OVER-ALL) 1869-1973

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.0E

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	.5	.0	.0	.0	.0	.5	
	TOT %	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.5	
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	.2	.0	.0	.0	.0	.7	.2	.0	.0	1.5	
	NO PCP	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.5	
	TOT %	.2	.2	.0	.0	.0	.0	1.0	.5	.0	.0	2.0	
2<5	PCP	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	1.0	
	NO PCP	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.5	
	TOT %	.2	.2	.0	.0	.5	.0	.5	.0	.0	.0	1.5	
5<10	PCP	.0	.0	1.0	.0	.0	.0	.2	.2	.0	.0	1.5	
	NO PCP	1.0	.7	4.0	2.2	.9	.1	1.1	.4	.0	3.0	13.4	
	TOT %	1.0	.7	5.0	2.2	.9	.1	1.4	.6	.0	3.0	14.9	
10+	PCP	.0	.0	1.2	.4	.4	.0	.5	.0	.0	.5	3.0	
	NO PCP	3.6	7.1	24.4	22.9	5.0	3.1	5.6	.7	.0	5.9	78.2	
	TOT %	3.6	7.1	25.6	23.3	5.3	3.1	6.1	.7	.0	6.4	81.2	
	TOT OBS												2[illegible]4
	TOT PCT	5.1	8.3	30.6	25.5	6.7	3.7	9.9	1.9	.0	9.4	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	.3	.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	.0	.0	.3	.0	.0	.0	.0	.3	
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	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.1	.1	.1	.0	.0	.3	.3	.0		1.1	
	11-21	.0	.0	.0	.0	.0	.0	.3	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.1	.1	.1	.0	.0	.6	.3	.0	.0	1.4	
2<5	0-3	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.3	
	4-10	.7	.3	.4	.6	.0	.1	1.0	.0	.0		3.2	
	11-21	.0	.0	.0	.0	.3	.0	.0	.3	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.3	.0	.0		.3	
	TOT %	.7	.3	.4	.6	.3	.3	1.4	.3	.0	.0	4.3	
5<10	0-3	.0	.0	.3	.3	.3	.0	.0	.0	.0	1.7	2.6	
	4-10	.6	.4	2.0	.7	.2	.1	.8	.4	.0		5.2	
	11-21	.0	.0	.6	.3	.0	.0	.0	.0	.0		.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.6	.4	2.9	1.3	.5	.1	.8	.4	.0	1.7	8.6	
10+	0-3	.4	1.8	3.0	3.7	1.6	1.9	.9	.0	.0	8.9	22.1	
	4-10	2.8	6.4	16.3	14.6	3.3	2.2	4.8	2.0	.0		52.4	
	11-21	.3	.3	5.6	3.1	.2	.0	1.0	.1	.0		10.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	3.5	8.5	24.9	21.3	5.1	4.1	6.7	2.1	.0	8.9	85.1	
	TOT OBS												349
	TOT PCT	4.9	9.4	28.3	23.4	5.9	4.7	9.5	3.1	.0	10.9	100.0	

APRIL

PERIOD: (PRIMARY) 1921-1973
(OVER-ALL) 1869-1973

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.0E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	5.3	10.5	5.3	5.3	.0	.0	.0	26.3	73.7	19
06&09	.0	.0	.0	.0	24.0	.0	8.0	.0	.0	.0	32.0	68.0	25
12&15	.0	3.0	.0	6.1	6.1	.0	.0	.0	.0	.0	15.2	84.8	33
18&21	.0	.0	.0	4.2	8.3	4.2	.0	.0	.0	.0	16.7	83.3	24
TOT	0	1	0	4	12	2	3	0	0	0	22	79	101
PCT	.0	1.0	.0	4.0	11.9	2.0	3.0	.0	.0	.0	21.8	78.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	1.9	6.7	4.8	86.7	105
06&09	.0	.0	.0	4.4	10.3	85.3	68
12&15	.0	1.1	1.1	1.1	9.8	87.0	92
18&21	1.2	.0	2.3	4.7	11.6	80.2	86
TOT	1	1	5	15	31	298	351
PCT	.3	.3	1.4	4.3	8.8	84.9	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	5.3	21.1	73.7	19
06&09	.0	.0	.0	33.3	66.7	24
12&15	.0	3.1	9.4	6.3	84.4	32
18&21	.0	.0	4.3	13.0	82.6	23
TOT	0	1	5	17	76	98
PCT	.0	1.0	5.1	17.3	77.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	1.0	21.4	8.7	1.9	34	33.0
80/84	.0	.0	.0	.0	.0	33.0	27.2	3.9	66	64.1
75/79	.0	.0	.0	.0	.0	.0	1.9	1.0	3	2.9
TOTAL	0	0	0	0	1	56	39	7	103	100.0
PCT	.0	.0	.0	.0	1.0	54.4	37.9	6.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	1.0	1.0	17.2	4.4	1.9	.2	1.0	.0	.0	6.8
	2.4	3.2	19.2	20.6	3.8	1.0	6.6	.7	.0	6.8
	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	1.0
	4.4	5.1	36.4	25.0	5.1	1.2	7.5	.7	.0	14.6

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	90	89	87	83	79	77	73	83.1	140
06&09	94	91	89	84	80	75	75	84.4	95
12&15	88	87	86	83	79	78	78	82.9	136
18&21	86	85	85	82	79	75	75	82.3	111
TOT	94	90	87	83	79	77	73	83.1	482

TABLE 16

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	42.1	36.8	21.1	82	19
06&09	.0	.0	.0	82.6	13.0	4.3	77	23
12&15	.0	.0	2.9	51.4	42.9	2.9	79	35
18&21	.0	.0	.0	44.4	51.9	3.7	80	27
TOT	0	0	1	57	39	7	80	104

APRIL

PERIOD: (PRIMARY) 1921-1973
(OVER-ALL) 1869-1973

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.0E

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	% FOG	NO FOG
11/13	.0	.0	.0	1.0	.0	2	.0	2.1
7/8	.0	.0	1.0	.5	.0	3	.0	.5
5	.0	.0	.0	.5	.5	2	.0	1.0
4	.0	.0	.5	1.5	.0	4	.0	2.1
3	.0	.0	.0	2.6	.0	5	.0	2.6
2	.0	.0	4.1	2.6	.5	14	.0	7.2
1	.0	.0	3.1	3.1	.5	13	.0	6.7
0	.0	.5	11.3	3.6	.5	31	.0	15.9
-1	.0	.0	8.7	5.6	.0	28	.0	14.4
-2	.0	1.0	23.1	1.5	.0	50	.0	25.6
-3	.0	.5	4.6	.5	.0	11	.0	5.6
-4	.5	3.1	8.2	.5	.0	24	.0	12.3
-5	.5	1.0	1.0	.0	.0	5	.0	2.6
-6	.0	1.0	.0	.0	.0	2	.0	1.0
-7/-8	.0	.5	.0	.0	.0	1	.0	.5
TOTAL	2		128		4		0	195
		15		46		195		
PCT	1.0	7.7	65.6	23.6	2.1	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	.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

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	.0	1.6	.0	.0	.0	2.0
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	.4	3.3	1.6	.0	.0	.0	5.3

E

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	2.5	17.2	8.6	.0	.0	.0	28.3
3-4	.0	8.1	4.5	.0	.0	.6	10.7
5-6	.0	.0	5.7	.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	4.1	23.4	18.9	.0	.0	.0	46.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.4	10.7	1.6	.0	.0	.0	12.7
3-4	.0	2.0	2.0	.0	.0	.0	4.1
5-6	.0	.0	9.0	.0	.0	.0	9.0
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	.4	12.7	14.3	.0	.0	.0	27.5

PERIOD: (OVER-ALL) 1963-1973

APRIL

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.0E

TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.6	.0	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.9	1.2	.0	.0	.0	4.1	1.6	.4	.0	.0	.0	.0	2.0
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	4.5	1.2	.0	.0	.0	5.7	1.6	.4	.0	.0	.0	.0	2.0

	W							NW							
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.2	.0	.0	.0	.0	1.2	.0	.4	.0	.0	.0	.0	.4	
1-2	.0	1.2	.0	.0	.0	.0	1.2	.0	.4	.0	.0	.0	.0	.4	
3-4	.0	.0	3.3	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	2.5	3.3	.0	.0	.0	5.7	.0	.8	.0	.0	.0	.0	.8	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	6.6	3.3	.0	.0	.0	.0	9.8	
1-2	4.9	32.8	14.8	.0	.0	.0	52.5	
3-4	.0	11.5	9.8	.0	.0	.0	21.3	
5-6	.0	.0	14.8	.0	.0	.0	14.8	
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	11.5	47.5	41.0	.0	.0	.0	100.0	61

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	9.6	38.6	18.1	8.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	62	2
6-7	.0	3.6	2.4	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	3
8-9	.0	1.2	3.6	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	4
10-11	.0	.0	.0	1.2	.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	8.4	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	0
TOTAL	15	37	20	10	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	83	2
PCT	18.1	44.6	24.1	12.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1923-1972
(OVER-ALL) 1859-1972

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	.0	.0	.0	.0		97.3
SE	3.9	.0	.0	.0	.0	.0	.0	3.9	.0	3.3	.0	.0	.3	.0		92.5
S	4.3	.0	.0	.0	.0	.0	.0	4.3	.0	.0	.0	.0	6.4	.0		89.4
SW	10.5	.0	.0	.0	.0	.0	.0	10.5	.0	.0	.0	.0	.0	.0		89.5
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28.6	.0	.0	.0		71.4
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	100.0	.0	.0	.0		.0
TOT PCT	2.4	.0	.0	.0	.0	.0	.0	2.4	.0	2.4	1.2	.0	.6	.0		93.5
TOT OBS:	170															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.5	.0	.0	.0	.0	.0	.0	3.5	.0	.0	1.8	.0	.0	.0		94.7
06&09	2.6	.0	.0	.0	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0		97.4
12&15	2.8	.0	.0	.0	.0	.0	.0	2.8	.0	2.8	.0	.0	2.8	.0		91.7
18&21	.0	2.3	.0	.0	.0	.0	.0	2.3	.0	6.8	2.3	.0	.0	.0		88.6
TOT PCT	2.3	.6	.0	.0	.0	.0	.0	2.9	.0	2.3	1.1	.0	.6	.0		93.1
TOT OBS:	175															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	1.0	.1	.0	.0	.0		1.3	5.5	.7	3.3	.0	2.5	.8	1.0	.0	.0
NE	1.0	5.3	.6	.0	.0	.0		6.9	6.3	1.8	11.4	.0	5.8	5.9	8.3	3.8	11.2
E	2.9	22.2	11.3	.2	.0	.0		36.6	9.1	42.0	35.3	40.5	27.5	29.7	38.5	50.0	39.6
SE	3.1	24.8	11.1	.4	.0	.0		39.5	9.2	43.8	38.0	31.9	39.2	47.7	35.4	39.4	35.8
S	1.6	4.1	.6	.0	.0	.0		6.3	6.4	2.2	4.9	9.5	9.2	8.2	4.2	2.9	9.7
SW	1.2	1.0	.0	.0	.0	.0		2.3	4.2	1.4	1.6	11.2	3.3	1.6	2.1	.0	.7
W	1.0	.8	.0	.0	.0	.0		1.8	3.8	2.9	1.6	.0	3.3	1.6	3.1	.0	.0
NW	.5	1.4	.0	.0	.0	.0		2.0	5.7	.7	2.7	3.4	5.8	1.6	1.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.3							3.3	.0	4.5	1.1	3.4	3.3	3.1	6.3	3.8	3.0
TOT OBS	68	276	108	3	0	0	455		8.1	69	92	29	60	64	48	26	67
TOT PCT	14.9	60.7	23.7	.7	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.1	.2	.0	.0	.0		1.3	5.5	2.2	1.7	.7	.0
NE	4.4	2.5	.0	.0	.0		6.9	6.3	7.3	3.9	6.9	9.1
E	11.0	23.9	1.5	.2	.0		36.6	9.1	38.2	31.7	33.5	42.5
SE	10.0	28.1	1.2	.2	.0		39.5	9.2	40.5	36.8	42.4	36.8
S	3.6	2.5	.2	.0	.0		6.3	6.4	3.7	9.3	6.5	7.8
SW	1.9	.4	.0	.0	.0		2.3	4.2	1.6	5.9	1.8	.5
W	1.5	.2	.0	.0	.0		1.8	3.8	2.2	2.2	2.2	.0
NW	1.2	.8	.0	.0	.0		2.0	5.7	1.9	5.1	1.3	.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.3						3.3	.0	2.5	3.4	4.5	3.2
TOT OBS	173	267	13	2	0	455		8.1	181	89	112	93
TOT PCT	38.0	58.7	2.9	.4	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1923-1972
(OVER-ALL) 1889-1972

AREA 0014 NORTHEAST JAVA SEA
4.75 114.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.5	13.0	57.1	27.3	.0	.0	.0	8.2	100.0	161
06&09	3.4	18.0	53.9	23.6	1.1	.0	.0	8.0	100.0	89
12&15	4.5	9.8	64.3	19.6	1.8	.0	.0	8.2	100.0	112
18&21	3.2	5.4	68.8	22.6	.0	.0	.0	8.2	100.0	93
TOT	15	53	276	108	3	0	0	8.1		455
PCT	3.3	11.6	60.7	23.7	.7	.0	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.0		.0
NE	.0	.0	.6	1.3		7.3
E	8.4	11.7	21.8	.0		4.2
SE	13.6	10.7	17.5	1.3		4.3
S	.0	1.0	3.9	.0		5.8
SW	2.6	.0	.3	1.3		4.2
W	.0	2.6	.0	.0		4.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	1.3	.0	.0	.0		2.0
TOT OBS	20	20	34	3	77	4.3
TOT PCT	26.0	26.0	44.2	3.9	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	.0	
NE	.0	.0	.0	.0	1.3	.6	.0	.0	.0	.0	.0	
E	.0	.0	.0	.0	7.1	3.2	1.0	.0	.0	.0	30.5	
SE	.0	.0	1.3	1.3	7.5	1.3	.3	.0	.0	.0	31.5	
S	.0	.0	.0	.0	1.0	.0	1.0	.0	.0	.0	2.9	
SW	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	3.9	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	
TOT OBS	0	0	1	1	13	4	2	0	0	0	56	77
TOT PCT	.0	.0	1.3	1.3	16.9	5.2	2.6	.0	.0	.0	72.7	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	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
* OR >2000	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
* OR >1000	21.5	24.1	24.1	24.1	24.1	24.1	24.1	24.1
* OR >600	22.8	25.3	25.3	25.3	25.3	25.3	25.3	25.3
* OR >300	24.1	26.6	26.6	26.6	26.6	26.6	26.6	26.6
* OR >150	24.1	26.6	26.6	26.6	26.6	26.6	26.6	26.6
* OR > 0	24.1	26.6	26.6	26.6	26.6	26.6	26.6	26.6
TOTAL	19	21	21	21	21	21	21	21

TOTAL NUMBER OF OBS: 79 PCT FREQ NH <5/8: 73.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
7.5	13.6	22.2	22.2	13.6	9.9	9.9	4.9	1.2	.0	81

MAY

PERIOD: (PRIMARY) 1923-1972
(OVER-ALL) 1889-1972

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.0E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.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	1.2	.0	.0	.0	.0	.0	.0	1.2	
	TOT %	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	1.2	
5<10	PCP	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	1.2	
	NO PCP	.0	1.5	5.3	7.4	.6	.0	.6	.6	.0	.6	16.6	
	TOT %	.0	1.5	5.3	8.6	.6	.0	.6	.6	.0	.6	17.8	
10+	PCP	.0	.0	.0	.6	.3	.3	.0	.0	.0	.0	1.2	
	NO PCP	.9	5.6	26.8	34.8	6.1	2.5	1.5	1.8	.0	.0	79.9	
	TOT %	.9	5.6	26.8	35.4	6.4	2.8	1.5	1.8	.0	.0	81.1	
	TOT OBS												149
	TOT PCT	.9	7.1	32.1	45.1	7.0	2.8	2.1	2.4	.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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.4	.1	.0	.0	.0	.0	.0		.6	
	11-21	.0	.0	.1	.1	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.6	.3	.0	.0	.0	.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	.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	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	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	
	4-10	.0	.0	1.0	1.3	.0	.0	.0	.0	.0		2.3	
	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	1.0	1.6	.0	.0	.0	.0	.0	.3	2.9	
5<10	0-3	.0	.0	.0	1.2	.0	.0	.0	.3	.0	.6	2.1	
	4-10	.0	1.0	2.5	2.9	.3	.0	.3	.0	.0		7.0	
	11-21	.0	.1	1.0	.3	.0	.0	.0	.0	.0		1.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	1.2	3.5	4.4	.3	.0	.3	.3	.0	.6	10.6	
10+	0-3	.3	.7	1.5	1.5	1.3	1.0	.4	.4	.0	2.1	9.4	
	4-10	1.0	4.5	20.5	22.6	2.9	.5	.7	1.2	.0		54.0	
	11-21	.1	.7	9.2	11.4	.2	.0	.0	.0	.0		21.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	1.5	5.9	31.3	35.6	4.5	1.5	1.2	1.6	.0	2.1	85.0	
	TOT OBS												341
	TOT PCT	1.5	7.0	36.4	42.4	4.8	1.5	1.5	1.9	.0	2.9	100.0	

MAY

PERIOD: (PRIMARY) 1923-1972
(OVER-ALL) 1889-1972

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.0E

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
00Z03	.0	.0	4.8	.0	14.3	4.8	.0	.0	.0	.0	23.8	76.2	21
06Z09	.0	.0	.0	.0	26.3	5.3	10.5	.0	.0	.0	42.1	57.9	19
12Z15	.0	.0	.0	.0	15.8	10.5	.0	.0	.0	.0	26.3	73.7	19
18Z21	.0	.0	.0	4.5	9.1	.0	.0	.0	.0	.0	13.6	86.4	22
TOT	0	0	1	1	13	4	2	0	0	0	21	60	81
PCT	.0	.0	1.2	1.2	16.0	4.9	2.5	.0	.0	.0	25.9	74.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00Z03	.8	.0	.0	4.0	10.5	84.7	124
06Z09	.0	.0	.0	.0	8.2	91.8	61
12Z15	1.2	1.2	1.2	3.6	10.7	82.1	84
18Z21	1.3	.0	.0	2.6	13.0	83.1	77
TOT	3	1	1	10	37	294	346
PCT	.9	.3	.3	2.9	10.7	85.0	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	4.8	4.8	19.0	76.2	21
06Z09	.0	.0	.0	44.4	55.6	18
12Z15	.0	.0	.0	26.3	73.7	19
18Z21	.0	.0	4.8	9.5	85.7	21
TOT	0	1	2	19	58	79
PCT	.0	1.3	2.5	24.1	73.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	1.4	15.3	.0	1.4	13	18.1
80/84	.0	.0	.0	.0	.0	31.9	44.4	5.6	59	81.9
TOTAL	0	0	0	0	1	34	32	5	72	100.0
PCT	.0	.0	.0	.0	1.4	47.2	44.4	6.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	13.2	4.9	.0	.0	.0	.0	.0	.0
	.0	1.4	26.0	40.6	5.2	4.5	2.8	.0	.0	1.4
PCT	.0	1.4	39.2	45.5	5.2	4.5	2.8	.0	.0	1.4

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00Z03	91	90	87	84	79	75	73	83.5	159
06Z09	89	88	88	84	81	77	77	83.9	85
12Z15	89	88	85	83	79	75	75	82.8	111
18Z21	86	85	84	82	79	73	73	82.1	92
TOT	91	89	87	83	79	75	73	83.1	447

TABLE 16

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	38.9	50.0	11.1	81	18
06Z09	.0	.0	6.3	75.0	12.5	6.3	76	16
12Z15	.0	.0	.0	47.4	52.6	.0	80	19
18Z21	.0	.0	.0	30.4	60.9	8.7	82	23
TOT	0	0	1	35	35	5	80	76

MAY

PERIOD: (PRIMARY) 1963-1972
(OVER-ALL) 1889-1972

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.0E

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 THP 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
4	.0	.0	1.9	1.3	.0	5	.0	3.2
3	.0	.0	.0	1.9	.0	2	.0	1.3
2	.0	.6	5.8	3.9	.0	16	.0	10.3
1	.0	.0	3.9	3.2	.0	11	.0	7.1
0	.0	.0	25.2	3.2	.0	44	.0	28.4
-1	.0	.0	12.3	1.3	.0	21	.6	12.9
-2	.0	1.3	22.6	.6	.0	38	.6	23.9
-3	.0	.0	1.9	.0	.0	3	.0	1.9
-4	1.3	3.9	3.2	.0	.0	13	.0	8.4
-5	.0	.6	.0	.0	.0	1	.0	.6
TOTAL	2		119		1		2	153
		10		23		155		
PCT	1.3	6.4	76.8	14.8	.6	100.0	1.3	98.7

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.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	15.2	3.8	.0	.0	.0	19.0
3-4	.0	10.3	9.2	.0	.0	.0	19.6
5-6	.0	1.6	6.5	.0	.0	.0	8.2
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	27.2	19.6	.0	.0	.0	46.7

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	24.5	2.7	.0	.0	.0	27.2
3-4	.0	7.1	6.0	.0	.0	.0	13.0
5-6	.0	2.7	6.5	.0	.0	.0	9.2
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	34.2	15.2	.0	.0	.0	49.3

TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.6	.0	.0	.0	.0	1.6	.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	1.6	.0	.0	.0	.0	1.6	.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	97.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.3	.0	.0	.0	.0	.0	4.3	
1-2	.0	40.4	6.4	.0	.0	.0	46.8	
3-4	.0	17.0	14.9	.0	.0	.0	31.9	
5-6	.0	4.3	12.8	.0	.0	.0	17.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.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	61.7	34.0	.0	.0	.0	100.0	47

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

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.6	35.5	14.5	6.5	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38	3
6-7	.0	3.2	8.1	11.3	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	4
8-9	.0	1.6	1.6	.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	6.5	1.6	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	1
TOTAL	5	26	17	11	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	62	3
PCT	8.1	41.9	27.4	17.7	3.2	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1919-1972
(OVER-ALL) 1858-1972

AREA 0014 NORTHEAST JAVA SEA
4.6S 113.9E

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	26.7	.0	.0	.0	.0	.0	.0	26.7	.0	.0	.0	.0	.0	.0		73.3
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
E	.0	2.7	.0	.0	.0	.0	.0	2.7	.0	7.3	.0	.0	.0	.0		90.0
SE	2.1	.5	.0	.0	.0	.0	.0	2.7	3.2	3.2	.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	25.0	.0	.0	.0	.0	.0		75.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
NW	.0	40.0	.0	.0	.0	.0	.0	40.0	.0	.0	.0	.0	.0	.0		60.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	1.7	1.7	.0	.0	.0	.0	.0	3.5	2.3	4.0	.0	.0	.0	.0		90.8
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	.0	4.2	.0	.0	.0	.0	.0	4.2	4.2	.0	.0	.0	.0	.0		91.7
06&09	2.1	2.1	.0	.0	.0	.0	.0	4.3	4.3	.0	.0	.0	.0	.0		91.5
12&15	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	.0	.0	.0	.0		97.0
18&21	4.3	.0	.0	.0	.0	.0	.0	4.3	.0	13.0	.0	.0	.0	.0		84.8
TOT PCT	1.7	1.7	.0	.0	.0	.0	.0	3.4	2.3	4.0	.0	.0	.0	.0		90.8
TOT OBS:	174															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.4	1.3	.1	.0	.0	.0		1.8	5.6	2.1	.0	7.2	.0	1.6	2.3	.0	2.4
NE	.5	1.7	.3	.0	.0	.0		3.6	7.8	3.4	1.8	6.1	2.5	1.6	4.5	.0	8.1
E	1.6	27.7	10.4	.1	.0	.0		34.8	9.5	35.6	29.9	31.7	33.3	32.0	44.3	35.3	39.5
SE	1.4	27.6	21.3	.8	.0	.0		51.0	10.6	47.9	57.9	43.9	55.0	55.3	42.0	56.9	46.0
S	.5	2.7	1.3	.0	.0	.0		4.5	8.7	8.2	5.5	2.2	1.7	6.1	2.3	4.3	3.2
SW	.3	.9	.1	.0	.0	.0		1.3	6.2	1.4	.0	4.4	1.7	3.3	.0	.0	.0
W	.0	.3	.3	.0	.0	.0		.7	9.0	.0	1.8	2.2	.8	.0	.0	.0	.0
NW	.2	.1	.1	.2	.0	.0		.7	12.6	1.4	.6	2.2	.0	.0	.0	.0	.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0	.0	2.4	.0	5.0	.0	4.5	3.4	.0
TOT OBS	31	201	159	5	0	0	456		9.7	73	82	45	40	61	44	29	62
TOT PCT	6.8	57.2	34.9	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	1.3	.5	.0	.0	.0		1.8	5.6	1.0	3.1	1.9	1.6
NE	1.9	1.6	.0	.0	.0		3.6	7.8	2.6	4.0	2.9	5.5
E	6.9	26.3	1.5	.0	.0		34.8	9.5	32.6	32.6	37.1	38.2
SE	6.5	40.6	3.9	.0	.0		51.0	10.6	53.2	50.2	49.8	49.5
S	1.8	2.5	.3	.0	.0		4.5	8.7	6.8	1.9	4.5	3.6
SW	.8	.5	.0	.0	.0		1.3	6.2	.6	2.9	1.9	.0
W	.3	.3	.0	.0	.0		.7	9.0	1.0	1.4	.0	.0
NW	.3	.1	.2	.0	.0		.7	12.6	1.0	1.0	.0	.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.8						1.8	.0	1.3	2.9	1.9	1.1
TOT OBS	98	331	27	0	0	456		9.7	155	105	105	91
TOT PCT	21.5	72.6	5.9	.0	.0		100.0		100.0	100.0	100.0	100.0

JUNE

PERIOD: (PRIMARY) 1919-1972
(OVER-ALL) 1858-1972

AREA 0014 NORTHEAST JAVA SEA
4.0S 113.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
				WIND SPEED (KNOTS)						
00603	1.3	3.9	54.8	39.4	.6	.0	.0	9.9	100.0	155
06609	2.9	4.8	54.3	35.2	2.9	.0	.0	9.9	100.0	105
12615	1.9	6.7	67.9	28.6	.0	.0	.0	9.2	100.0	105
18621	1.1	5.5	58.2	34.1	1.1	.0	.0	9.7	100.0	91
TOT	8	23	261	159	5	0	0	9.7		456
PCT	1.8	5.0	57.2	34.9	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	.6	.0	.9	1.1		6.0
NE	.6	.0	1.4	.0		4.8
E	8.6	4.9	16.7	.9		4.3
SE	19.3	18.1	9.8	7.2		3.8
S	.9	1.1	1.1	.0		4.1
SW	.0	1.1	1.1	2.3		6.5
W	.0	.0	.0	.0		.0
NW	.0	1.1	.0	1.1		6.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	26	23	27	11	87	4.2
TOT PCT	29.9	26.4	31.0	12.6	100.0	

TABLE

PERCENTAGE FREQUENCY OF CEILI. HTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 . IND 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	.0	.0	.0	.0	.0	2.0	
E	.0	.0	.0	3.4	2.3	3.2	.0	.0	.0	.0	22.1	
SE	.0	.0	1.1	3.4	5.7	1.4	.0	.0	.0	.0	42.5	
S	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	2.0	
SW	.0	.0	.0	1.1	1.1	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	.0	.0	.0	.0	.0	2.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	0	0	1	7	8	6	0	0	0	0	65	87
TOT PCT	.0	.0	1.1	8.0	9.2	6.9	.0	.0	.0	.0	74.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (N. >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	5.7	6.9	6.9	6.9	6.9	6.9	6.9	6.9
* OR >1000	14.9	16.1	16.1	16.1	16.1	16.1	16.1	16.1
* OR >600	23.0	24.1	24.1	24.1	24.1	24.1	24.1	24.1
* OR >300	23.0	25.3	25.3	25.3	25.3	25.3	25.3	25.3
* OR >150	23.0	25.3	25.3	25.3	25.3	25.3	25.3	25.3
* OR > 0	23.0	25.3	25.3	25.3	25.3	25.3	25.3	25.3
TOTAL	20	22	22	92	22	22	72	22

TOTAL NUMBER OF OBS: 87 PCT FREQ NH <5/8: 74.7

TABLE 74

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
2.2	16.3	27.2	19.6	10.9	10.9	3.3	4.3	5.4	.0	92

JUNE

PERIOD: (PRIMARY) 1919-1972
(OVER-ALL) 1858-1972

AREA 0014 NORTHEAST JAVA SEA
4.0S 113.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR 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	.6	.0	.0	.0	.0	.0	.0	.6	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.6	
2<5	PCP	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	
	NO PCP	.0	.0	.6	.1	.4	.0	.0	.0	.0	.0	1.2	
	TOT %	.6	.0	.6	.1	.4	.0	.0	.0	.0	.0	1.7	
5<10	PCP	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.6	
	NO PCP	.0	.0	3.8	6.9	.3	.6	.0	.0	.0	.0	11.6	
	TOT %	.0	.0	3.8	7.5	.3	.6	.0	.0	.0	.0	12.1	
10+	PCP	.0	.0	.9	.3	.0	.0	.0	.6	.0	.0	1.7	
	NO PCP	1.6	1.6	26.4	46.0	5.1	1.7	.6	.9	.0	.0	83.8	
	TOT %	1.6	1.6	27.3	46.2	5.1	1.7	.6	1.4	.0	.0	85.5	
	TOT OBS												173
	TOT PCT	2.2	1.6	31.6	54.5	5.8	2.3	.6	1.4	.0	.0	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.2	.8	.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	.0	.2	.8	.0	.0	.0	.0	.0	.0	1.0	
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	.7	1.6	.0	.0	.0	.0	.0		2.3	
	11-21	.0	.3	.0	.0	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.3	.7	1.6	.0	.0	.0	.0	.0	.0	2.6	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.3	.0	1.0	.7	.2	.0	.0	.0	.0		2.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.0	1.0	.7	.2	.0	.0	.0	.0	.0	2.3	
5<10	0-3	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.7	
	4-10	.0	.0	1.1	2.3	.2	.3	.0	.0	.0		3.9	
	11-21	.0	.0	1.1	2.1	.0	.2	.2	.0	.0		3.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	2.9	4.4	.2	.5	.2	.0	.0	.0	8.2	
10+	0-3	.3	.7	1.6	1.7	.7	.3	.0	.3	.0	.3	5.9	
	4-10	.7	1.6	19.5	25.6	2.3	1.0	.3	.0	.0		51.0	
	11-21	.2	.3	7.3	18.1	1.4	.0	.0	.2	.0		27.5	
	22+	.0	.0	.2	1.1	.0	.0	.0	.3	.0		1.6	
	TOT %	1.2	2.3	28.5	46.6	4.3	1.3	.3	.8	.0	.3	85.9	
	TOT OBS												306
	TOT PCT	1.6	2.9	33.3	54.1	4.7	1.8	.5	.8	.0	.3	100.0	

JUNE

PERIOD: (PRIMARY) 1919-1972
(OVER-ALL) 1858-1972

AREA 0014 NORTHEAST JAVA SEA
4.0S 113.9E

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	.0	.0	7.7	11.5	11.5	.0	.0	.0	.0	30.8	69.2	26
06Z09	.0	.0	.0	10.0	6.7	6.7	.0	.0	.0	.0	23.3	76.7	30
12Z15	.0	.0	.0	6.3	18.8	.0	.0	.0	.0	.0	25.0	75.0	16
18Z21	.0	.0	5.0	5.0	.0	5.0	.0	.0	.0	.0	15.0	85.0	20
TOT	0	0	1	7	8	6	0	0	0	0	22	70	92
PCT	.0	.0	1.1	7.6	8.7	6.5	.0	.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
00Z03	1.0	.0	3.8	1.0	2.9	91.4	105
06Z09	.0	.0	1.4	2.9	8.7	87.0	69
12Z15	1.6	.0	3.1	3.1	12.5	79.7	64
18Z21	1.5	.0	1.5	2.9	11.8	82.4	68
TOT	3	0	8	7	25	263	306
PCT	1.0	.0	2.6	2.3	8.2	85.9	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 <3	1000+ AND3+	NH <5/8 AND 5+	TOTAL OBS
00Z03	.0	.0	8.0	24.0	68.0	25
06Z09	.0	.0	13.8	13.8	72.4	29
12Z15	.0	.0	6.7	20.0	73.3	15
18Z21	.0	5.6	11.1	5.6	83.3	18
TOT	0	1	9	14	64	87
PCT	.0	1.1	10.3	16.1	73.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	1.1	1.1	.0	.0	2	2.1
85/89	.0	.0	.0	.0	5.3	3.2	.0	.0	8	8.4
80/84	.0	.0	.0	1.1	3.2	41.1	33.7	3.2	78	82.1
75/79	.0	.0	.0	.0	1.1	.0	3.2	3.2	7	7.4
TOTAL	0	0	0	1	10	43	35	6	95	100.0
PCT	.0	.0	.0	1.1	10.5	45.3	36.8	6.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.8	.3	1.1	.0	.0	.0	.0	.0
	.0	.0	4.7	2.6	.0	1.1	.0	.0	.0	.0
	1.3	1.8	24.5	45.8	5.5	2.1	.0	1.1	.0	.0
	1.1	.0	1.1	3.2	.0	1.1	.0	1.1	.0	.0
	2.4	1.8	31.1	51.8	6.6	4.2	.0	2.1	.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
00Z03	94	91	85	82	79	77	72	82.2	153
06Z09	91	90	87	83	79	79	73	82.7	104
12Z15	87	86	84	82	79	76	76	81.5	102
18Z21	84	83	83	82	78	77	77	81.3	92
TOT	94	88	85	82	79	76	72	82.0	451

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00Z03	.0	3.8	7.7	46.2	42.3	.0	77	26
06Z09	.0	.0	22.6	38.7	32.3	6.5	76	31
12Z15	.0	.0	5.9	47.1	41.2	5.9	80	17
18Z21	.0	.0	.0	52.4	33.3	14.3	81	21
TOT	0	1	10	43	35	6	78	95

JUNE

PERIOD: (PRIMARY) 1919-1972
(OVER-ALL) 1858-1972

AREA 0014 NORTHEAST JAVA SEA
4.6S 113.9E

TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
7/8	.0	.0	1.3	.0	.0	2	.0	1.3
6	.0	.0	.0	.0	.7	1	.0	.7
5	.0	.0	.7	.0	.7	2	.0	1.3
4	.0	.0	.7	2.0	.0	4	.0	2.6
3	.0	.0	.0	1.3	.0	2	.0	1.3
2	.0	.0	3.9	1.3	.0	8	.0	5.2
1	.0	.0	5.2	.0	.0	8	.0	5.2
0	.0	1.3	24.8	1.3	.0	42	.0	27.5
-1	.0	1.3	14.4	.0	.0	24	.0	15.7
-2	.0	2.6	17.6	.0	.0	31	.0	20.3
-3	.0	1.3	5.2	.0	.0	10	.0	6.5
-4	.0	3.9	2.0	.0	.0	9	.0	5.9
-5	.0	3.9	.7	.0	.0	7	.0	4.6
-6	.0	.7	.0	.0	.0	1	.0	.7
-7/-8	.7	.7	.0	.0	.0	2	.0	1.3
TOTAL	1	24	117	9	2	153	0	153
PCT	.7	15.7	76.5	5.9	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	.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	.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	13.9	1.2	.0	.0	.0	15.1
3-4	.0	1.2	5.6	.0	.0	.0	6.7
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	.0	15.1	15.1	.0	.0	.0	30.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	1.6	16.3	3.6	.0	.0	.0	21.4
3-4	.0	5.2	15.5	.0	.0	.0	20.6
5-6	.0	.0	15.5	.0	.0	.0	17.5
7	.0	.0	2.0	1.6	.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	1.6	21.4	38.5	1.6	.0	.0	63.1

PERIOD: (OVER-ALL) 1963-1972 JUNE AREA 0014 NORTHEAST JAVA SEA 4.0S 113.9E

TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.6	.0	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	1.2	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	1.2	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	1.2	.0	.0	.0	1.2	.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	.0	1.6	3.6	.0	.0	.0	5.2	.0	.0	.0	.0	.0	.0	.0

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.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	1.6	33.3	4.8	.0	.0	.0	39.7	
3-4	.0	6.3	22.2	.0	.0	.0	28.6	
5-6	.0	.0	27.0	.0	.0	.0	27.0	
7	.0	.0	3.2	1.6	.0	.0	4.8	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.6	39.7	57.1	1.6	.0	.0	100.0	63

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	8.1	27.9	17.4	14.0	7.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	64	3
6-7	.0	.0	7.0	7.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	4
8-9	.0	.0	.0	1.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
10-11	.0	.0	2.3	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	4
12-13	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	.0	1.2	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	4
TOTAL	7	25	23	23	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	86	3
PCT	8.1	29.1	26.7	26.7	9.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1919-1970
(OVER-ALL) 1858-1970

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	.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	1.6	1.8	.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	.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	.0
TOT PCT	.5	.5	.0	.0	.0	.0	.0	1.1	.0	.5	.0	.0	.0	.0	.0	98.4
TOT OBS:	185															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER 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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
06&09	.0	2.0	.0	.0	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	98.0
12&15	2.3	.0	.0	.0	.0	.0	.0	2.3	.0	2.3	.0	.0	.0	.0	.0	95.3
18&21	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	.0	.0	.0	.0	97.7
TOT PCT	.5	.5	.0	.0	.0	.0	.0	1.1	.0	1.1	.0	.0	.0	.0	.0	97.8
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	.0	.2	.0	.0	.0	.0		.2	6.0	.0	.0	.0	.0	.0	.0	4.3	.0
NE	.0	1.1	.5	.0	.0	.0		1.6	9.6	1.2	1.7	.0	.8	.8	.0	6.5	3.4
E	.4	11.9	16.8	.2	.0	.0		29.3	11.5	27.1	27.8	31.8	26.5	29.2	35.4	22.8	33.8
SE	1.5	29.7	25.1	.3	.0	.0		56.5	10.6	60.1	56.7	55.4	58.3	57.1	52.7	57.6	52.0
S	.6	5.6	2.3	.0	.0	.0		8.5	8.5	7.9	8.9	7.4	9.8	11.3	8.5	7.6	6.1
SW	.2	.8	.3	.0	.0	.0		1.3	7.5	.0	1.1	5.4	3.0	.0	.0	1.1	1.4
W	.1	.2	.0	.2	.0	.0		.5	12.8	.0	1.7	.0	.0	.0	1.2	.0	.7
NW	.5	.2	.0	.0	.0	.0		.7	3.4	2.4	.0	.0	.0	.0	1.2	.0	1.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3							1.3	.0	1.2	2.2	.0	1.5	1.7	.0	.0	1.4
TOT OBS	22	235	219	3	0	0	473		10.4	82	90	37	66	60	41	23	74
TOT PCT	4.7	49.7	45.0	.6	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.2	.0	.0	.0	.0		.2	6.0	.0	.0	.0	1.0
NE	.3	1.3	.0	.0	.0		1.6	9.6	1.5	.5	.5	4.1
E	2.4	24.0	2.9	.0	.0		29.3	11.5	27.5	28.4	31.7	31.2
SE	9.9	41.1	5.3	.2	.0		56.5	10.6	58.3	57.3	55.7	53.4
S	3.5	4.5	.5	.0	.0		8.5	8.5	8.4	9.0	10.1	6.4
SW	.9	.2	.2	.0	.0		1.3	7.5	.6	3.9	.0	1.3
W	.2	.1	.2	.0	.0		.5	12.8	.9	.0	.5	.5
NW	.5	.2	.0	.0	.0		.7	3.4	1.2	.0	.5	1.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.3						1.3	.0	1.7	1.0	1.0	1.0
TOT OBS	91	338	43	1	0	473		10.4	172	103	101	97
TOT PCT	19.2	71.5	9.1	.2	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1919-1970
(OVER-ALL) 1858-1970

AREA 0014 NORTHEAST JAVA SEA
4.75 114.0E

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	1.7	4.1	41.3	51.2	1.7	.0	.0	11.0	100.0	172
06609	1.0	3.9	50.5	44.7	.0	.0	.0	10.2	100.0	103
12615	1.0	2.0	57.4	39.6	.0	.0	.0	10.3	100.0	101
18621	1.0	3.1	55.7	40.2	.0	.0	.0	10.0	100.0	97
TOT	6	16	235	213	3	0	0	10.4		473
PCT	1.3	3.4	49.7	45.0	.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	1.4	.0		6.0
NE	.0	.0	1.4	.0		5.0
E	10.3	14.0	8.6	.0		3.4
SE	18.5	14.0	24.3	1.4		3.9
S	1.4	3.1	.0	.0		2.6
SW	.0	.3	.0	.0		3.0
W	.0	.0	.0	.0		.0
NW	.0	.0	1.4	.0		7.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	22	23	27	1	73	3.8
TOT PCT	30.1	31.5	37.0	1.4	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	.0	1.4	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	
.0	.0	.0	.0	2.7	.7	.7	.0	.0	.0	28.8	
.0	.0	.0	1.4	9.6	.7	.7	.0	.0	.0	45.9	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	1.4	.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	1	11	1	1	0	0	0	59	73
.0	.0	.0	1.4	15.1	1.4	1.4	.0	.0	.0	80.8	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	1.4	1.4	1.4	1.4	1.4	1.4	1.4
* OR >2000	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
* OR >1000	16.4	17.8	17.8	17.8	17.8	17.8	17.8	17.8
* OR >600	17.8	19.2	19.2	19.2	19.2	19.2	19.2	19.2
* OR >300	17.8	19.2	19.2	19.2	19.2	19.2	19.2	19.2
* OR >150	17.8	19.2	19.2	19.2	19.2	19.2	19.2	19.2
* OR > 0	17.8	19.2	19.2	19.2	19.2	19.2	19.2	19.2
TOTAL	13	14	14	14	14	14	14	14

TOTAL NUMBER OF OBS: 73 PCT FREQ NH <5/8: 80.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
5.2	22.1	27.3	16.9	9.1	11.7	6.5	.0	1.3	.0	77

PERIOD: (PRIMARY) 1919-1970
(OVER-ALL) 1858-1970

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.0E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.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	.5	.0	.0	.0	.0	.0	.0	.0	.5	
	NO PCP	.0	1.1	5.0	12.8	2.7	.0	.0	.0	.0	.0	21.6	
	TOT %	.0	1.1	5.5	12.8	2.7	.0	.0	.0	.0	.0	22.2	
10+	PCP	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.5	
	NO PCP	.5	.5	24.5	45.8	4.7	.4	.3	.5	.0	.0	77.3	
	TOT %	.5	.5	25.0	45.8	4.7	.4	.3	.5	.0	.0	77.8	
	TOT OBS												185
	TOT PCT	.5	1.6	30.5	58.6	7.4	.4	.3	.5	.0	.0	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<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		.3	
	11-21	.0	.0	.9	.3	.0	.0	.0	.0	.0		1.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	1.1	.5	.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	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.2	.3	.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 %	.0	.0	.2	.3	.2		.0	.0	.0	.0	.6	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.3	.3	.3	.0	.0	.0	.0		.9	
	11-21	.0	.0	.2	.5	.0	.0	.0	.0	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.5	.8	.3	.0	.0	.0	.0	.0	1.5	
5<10	0-3	.0	.0	.0	.2	.5	.0	.0	.0	.0	.0	.6	
	4-10	.0	.3	1.4	4.0	.5	.0	.0	.0	.0		6.1	
	11-21	.0	.3	2.4	3.5	.6	.0	.0	.0	.0		6.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.6	3.8	7.6	1.5	.0	.0	.0	.0	.0	13.5	
10+	0-3	.0	.0	.0	.9	.3	.0	.0	.0	.0	.9	2.1	
	4-10	.3	.6	10.7	23.5	4.1	.4	.2	.3	.0		40.2	
	11-21	.0	.0	14.8	24.4	1.0	.0	.0	.0	.0		40.2	
	22+	.0	.0	.2	.1	.0	.0	.0	.0	.0		.3	
	TOT %	.3	.6	25.8	48.9	5.4	.4	.2	.3	.0	.9	82.8	
	TOT OBS												326
	TOT PCT	.3	1.2	31.2	58.1	7.4	.4	.2	.3	.0	.9	100.0	

JULY

PERIOD: (PRIMARY) 1919-1970
(OVER-ALL) 1858-1970

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.0E

TABLE 10

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

HOUR (GMT)	000 149	150 299	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	15.8	5.3	5.3	.0	.0	.0	31.6	68.4	19
06E09	.0	.0	.0	.0	23.8	.0	.0	.0	.0	.0	23.8	76.2	21
12E15	.0	.0	.0	.0	5.9	.0	.0	.0	.0	.0	5.9	94.1	17
18E21	.0	.0	.0	.0	10.5	.0	.0	.0	.0	.0	10.5	89.5	19
TOT	0	0	0	1	11	1	1	0	0	0	14	62	76
PCT	.0	.0	.0	1.3	14.5	1.3	1.3	.0	.0	.0	18.4	81.6	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	1.7	.0	.8	1.7	10.1	85.7	119
06E09	1.5	.0	1.5	.0	20.6	76.5	68
12E15	1.4	.0	.0	2.8	14.1	81.7	71
18E21	1.4	.0	.0	1.4	11.6	85.5	69
TOT	5	0	2	5	44	271	327
PCT	1.5	.0	.6	1.5	13.5	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	.0	5.3	26.3	68.4	19
06E09	.0	.0	.0	26.3	73.7	19
12E15	.0	.0	.0	6.3	93.8	16
18E21	.0	.0	.0	10.5	89.5	19
TOT	0	0	1	13	59	73
PCT	.0	.0	1.4	17.8	80.8	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	2.1	3.1	.0	.0	5	5.2
80/84	.0	.0	.0	.0	3.1	47.4	34.0	2.1	84	86.6
75/79	.0	.0	.0	.0	.0	2.1	5.2	.0	7	7.2
TOTAL	0	0	0	0	4	51	38	2	97	100.0
PCT	.0	.0	.0	.0	6.2	52.6	39.2	2.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0
	.0	.0	1.8	3.4	.0	.0	.0	.0	.0	.0
	1.0	1.0	27.6	49.2	6.7	.0	.0	1.0	.0	.0
	.0	.0	.5	5.7	.8	.3	.0	.0	.0	.0
	1.0	1.0	29.9	59.3	7.5	.3	.0	1.0	.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	88	87	84	82	78	76	75	81.6	171
06E09	91	90	87	82	79	73	73	82.5	101
12E15	84	83	83	81	78	75	75	80.9	102
18E21	84	83	82	81	78	78	78	80.5	97
TOT	91	87	84	81	78	76	73	81.4	471

TABLE 16

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	9.1	54.5	36.4	.0	77	22
06E09	.0	.0	14.8	48.1	37.0	.0	77	27
12E15	.0	.0	.0	68.7	25.9	7.4	79	27
18E21	.0	.0	.0	40.9	59.1	.0	81	22
TOT	0	0	6	52	38	2	79	98

JULY

PERIOD: (PRIMARY) 1919-1970
(OVER-ALL) 1858-1970

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.0E

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
9/10	.0	.0	.0	.0	.6	1	.0	.6
5	.0	.0	1.2	1.2	1.2	6	.0	3.6
4	.0	.0	3.0	1.8	.0	8	.0	4.8
2	.0	.0	13.3	1.2	.0	24	.0	14.5
1	.0	.0	10.3	.0	.0	17	.0	10.3
0	.0	3.6	27.9	.0	.0	52	.0	31.5
-1	.0	4.8	7.9	.0	.0	21	.0	12.7
-2	.0	6.1	7.3	.0	.0	22	.0	13.3
-3	.0	2.4	1.2	.0	.0	6	.0	3.6
-4	.0	2.4	1.2	.0	.0	6	.0	3.6
-5	.6	.6	.0	.0	.0	2	.0	1.2
TOTAL	1	33	121	7	3	165	0	165
PCT	.6	20.0	73.3	4.2	1.8	100.0		100.0

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

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

N

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

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.5	2.0	.0	.0	.0	3.6
3-4	.0	5.1	18.4	.0	.0	.0	23.5
5-6	.0	1.5	3.6	.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	8.2	24.0	.0	.0	.0	32.1

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	4.6	18.9	.0	.0	.0	23.5
3-4	.0	7.1	16.3	.0	.0	.0	23.5
5-6	.0	2.6	10.7	.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	.0	14.3	45.9	.0	.0	.0	60.2

PERIOD: (OVER-ALL) 1963-1970

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.0E

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	.0	1.5	1.5	.0	.0	.0	3.1
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.5	1.5	.0	.0	.0	3.1

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	.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	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	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	12.2	22.4	.0	.0	.0	34.7	
3-4	.0	12.2	34.7	.0	.0	.0	46.9	
5-6	.0	4.1	14.3	.0	.0	.0	18.4	
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	28.6	71.4	.0	.0	.0	100.0	49

PERIOD: (OVER-ALL) 1952-1970

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	18.8	29.7	9.4	6.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	3
6-7	.0	3.1	12.5	10.9	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	4
8-9	.0	.0	.0	1.6	1.6	.0	.0	.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	.0	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
TOTAL	0	14	27	14	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	64	4
PCT	.0	21.9	42.2	21.9	14.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1919-1972
(OVER-ALL) 1860-1972

AREA 0014 NORTHEAST JAVA SEA
4.7S 113.9E

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	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	2.5	.0	.0	.0	.0	.0	.0	2.5	.0	.0	.0	.0	.0	.0	.0	97.5
SE	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.0	.0	.0	1.0	.0	.0	97.0
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	.0	.0	.0	.0	.0	.0	.0	100.0
W	.0	100.0	.0	.0	.0	.0	.0	100.0	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	11.1	.0	.0	.0	.0	.0	11.1	.0	44.4	.0	.0	.0	.0	.0	44.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	.6	.0	.0	.0	.0	.0	1.3	1.3	1.3	.0	.0	.6	.0	95.6	
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	2.2	2.2	.0	.0	.0	.0	.0	4.4	.0	2.2	.0	.0	.0	.0	.0	93.3
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	.0	3.0	.0	.0	3.0	.0	.0	93.9
18&21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	.6	.6	.0	.0	.0	.0	.0	1.3	1.3	1.3	.0	.0	.6	.0	95.6	
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	.0	.4	.2	.0	.0	.0		.7	8.6	.0	1.0	2.9	1.6	.0	.0	.0	.0
NE	.0	.4	.2	.1	.0	.0		.8	10.5	.0	.0	.0	.0	1.9	1.3	1.9	2.5
E	.1	13.3	14.9	.6	.0	.0		28.9	11.3	25.7	28.1	18.6	34.7	22.1	36.3	19.4	39.2
SE	1.0	33.3	26.8	.3	.0	.0		61.5	10.4	65.0	63.0	74.3	57.3	64.4	52.5	65.7	53.3
S	.4	4.4	2.1	.1	.0	.0		7.0	9.2	4.0	7.3	4.3	6.5	9.6	10.0	9.3	5.0
SW	.0	.4	.0	.0	.0	.0		.4	7.0	2.0	.5	.0	.0	.0	.0	.0	.0
W	.0	.0	.2	.0	.0	.0		.2	17.0	1.0	.0	.0	.0	.0	.0	.0	.0
NW	.4	.0	.1	.0	.0	.0		.5	3.6	.5	.0	.0	.0	1.9	.0	3.7	.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	9	234	199	5	0	0	447		10.5	75	96	35	62	52	40	27	60
TOT PCT	2.0	52.3	44.5	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	.2	.4	.0	.0	.0		.7	8.6	.6	2.1	.0	.0
NE	.3	.3	.1	.0	.0		.8	10.5	.0	.0	1.6	2.3
E	2.1	24.4	2.3	.0	.0		28.9	11.3	27.0	28.9	28.3	33.0
SE	8.4	50.1	3.0	.0	.0		61.5	10.4	63.9	63.4	59.2	57.2
S	2.1	4.6	.3	.0	.0		7.0	9.2	6.7	5.7	9.8	6.3
SW	.2	.2	.0	.0	.0		.4	7.0	1.2	.0	.0	.0
W	.0	.0	.2	.0	.0		.2	17.0	.4	.0	.0	.0
NW	.4	.0	.1	.0	.0		.5	3.6	.1	.0	1.1	1.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.0						.0	.0	.0	.0	.0	.0
TOT OBS	62	358	27	0	0	447		10.5	171	97	92	87
TOT PCT	13.9	80.1	6.0	.0	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1919-1972
(OVER-ALL) 1860-1972

AREA 0014 NORTHEAST JAVA SEA
4.75 113.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00603	.0	1.2	48.0	49.1	1.8	.0	.0	11.1	100.0	171
06609	.0	3.1	39.2	56.7	1.0	.0	.0	11.3	100.0	97
12615	.0	2.2	60.9	37.0	.0	.0	.0	9.5	100.0	92
18621	.0	2.3	66.7	29.9	1.1	.0	.0	9.5	100.0	87
TOT	0	9	234	199	5	0	0	10.5		447
PCT	.0	2.0	52.3	44.5	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	1.3		8.0
NE	.0	.0	.0	.0		.0
E	1.0	6.7	3.2	1.3		4.2
SE	30.4	12.5	23.7	5.1		3.5
S	4.5	1.3	3.8	.0		3.2
SW	.0	.0	1.3	.0		6.0
W	.0	.0	.0	1.0		8.0
NW	.0	.0	1.3	1.6		6.6
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	28	16	26	8	78	3.8
TOT PCT	35.9	20.5	33.3	10.3	100.0	

TABLE 6

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

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
E	.0	.0	.0	.0	.0	.0	2.6	.0	.0	.0	9.6	
SE	.0	.0	.0	.0	3.8	2.6	.0	.0	.0	.0	65.4	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.6	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	
W	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	2.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	0	0	0	0	3	3	2	0	0	0	70	78
TOT PCT	.0	.0	.0	.0	3.8	3.8	2.6	.0	.0	.0	89.7	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >500YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	1.3	2.6	2.6	2.6	2.6	2.6	2.6	2.6
* OR >2000	3.8	6.4	6.4	6.4	6.4	6.4	6.4	6.4
* OR >1000	7.7	10.3	10.3	10.3	10.3	10.3	10.3	10.3
* OR >600	7.7	10.3	10.3	10.3	10.3	10.3	10.3	10.3
* OR >300	7.7	10.3	10.3	10.3	10.3	10.3	10.3	10.3
* OR >150	7.7	10.3	10.3	10.3	10.3	10.3	10.3	10.3
* OR > 0	7.7	10.3	10.3	10.3	10.3	10.3	10.3	10.3
TOTAL	6	8	8	8	8	8	8	8

TOTAL NUMBER OF OBS: 78 PCT FREQ NH <5/8: 89.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
17.3	19.8	23.5	17.3	12.3	3.7	2.5	.0	3.7	.0	81

AUGUST

PERIOD: (PRIMARY) 1919-1972
(OVER-ALL) 1860-1972

AREA 0014 NORTHEAST JAVA SEA
4.7S 113.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR 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	.6	.0	.0	.0	.5	.2	.0	.0	1.3	
	NO PCP	.0	.0	3.8	7.2	.3	.0	.0	.0	.0	.0	11.3	
	TOT %	.0	.0	4.4	7.2	.3	.0	.5	.2	.0	.0	12.6	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.6	.3	21.2	56.4	6.9	.6	.0	1.3	.0	.0	87.4	
	TOT %	.6	.3	21.2	56.4	6.9	.6	.0	1.3	.0	.0	87.4	
	TOT OBS												159
	TOT PCT	.6	.3	25.6	63.7	7.2	.6	.5	1.4	.0	.0	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.3	.3	.0	.0	.0	.0	.0		.7	
	11-21	.0	.0	.7	.3	.0	.0	.0	.0	.0		1.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	1.0	.7	.0	.0	.0	.0	.0	.0	1.7	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	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	.2	.2	.0	.0	.0	.0	.0		.3	
	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	.3	.0	.0	.0	.0	.0	.0	.7	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	1.0	2.6	.2	.0	.0	.0	.0		3.7	
	11-21	.0	.0	1.4	1.4	.0	.0	.3	.1	.0		3.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	2.4	3.9	.2	.0	.3	.1	.0	.0	6.8	
10+	0-3	.0	.0	.0	.3	.0	.0	.0	.7	.0	.0	1.0	
	4-10	.0	.2	13.8	33.2	4.6	.3	.0	.0	.0		52.0	
	11-21	.3	.3	10.2	24.0	2.9	.0	.0	.0	.0		37.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.5	24.0	57.5	7.5	.3	.0	.7	.0	.0	90.8	
	TOT OBS												294
	TOT PCT	.3	.5	27.7	62.4	7.7	.3	.3	.8	.0	.0	100.0	

PERIOD: (PRIMARY) 1919-1972
(OVER-ALL) 1860-1972

AREA 0014 NORTHEAST JAVA SEA
4.7S 113.9E

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	.0	.0	.0	.0	12.5	6.3	.0	.0	.0	18.8	81.3	16
06Z09	.0	.0	.0	.0	4.0	4.0	.0	.0	.0	.0	8.0	92.0	25
12Z15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	21
18Z21	.0	.0	.0	.0	10.5	.0	5.3	.0	.0	.0	15.8	84.2	19
TOT	0	0	0	0	3	3	2	0	0	0	8	73	81
PCT	.0	.0	.0	.0	3.7	3.7	2.5	.0	.0	.0	9.9	90.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00Z03	1.9	.0	.0	.9	7.5	89.6	106
06Z09	1.6	.0	.0	.0	7.9	90.5	63
12Z15	.0	.0	.0	1.7	1.7	96.6	59
18Z21	3.0	.0	.0	.0	9.1	87.9	66
TOT	5	0	0	2	20	267	294
PCT	1.7	.0	.0	.7	6.8	90.8	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
00Z03	.0	.0	.0	20.0	80.0	15
06Z09	.0	.0	.0	8.3	91.7	24
12Z15	.0	.0	.0	.0	100.0	20
18Z21	.0	.0	.0	15.8	84.2	19
TOT	0	0	0	8	70	78
PCT	.0	.0	.0	10.3	89.7	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	1.3	2.6	.0	3	3.8
80/84	.0	.0	.0	.0	2.6	48.7	20.5	5.1	60	76.9
75/79	.0	.0	.0	.0	.0	7.7	9.0	2.6	15	19.2
TOTAL	0	0	0	0	2	45	25	6	78	100.0
PCT	.0	.0	.0	.0	2.6	57.7	32.1	7.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	2.2	1.6	.0	.0	.0	.0	.0	.0
	.0	.0	11.5	55.8	5.8	1.3	.0	2.6	.0	.0
	1.3	.0	1.3	15.4	.0	.0	1.0	.3	.0	.0
	1.3	.0	15.1	72.8	5.8	1.3	1.0	2.9	.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
00Z03	91	88	84	82	79	78	77	81.5	170
06Z09	90	88	86	82	79	77	[illegible]	[illegible]	[illegible]
12Z15	87	85	83	80	79	76	76	80.6	92
18Z21	85	84	82	80	77	75	75	79.9	87
TOT	91	87	85	81	[illegible]	77	75	81.1	445

TABLE 16

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	53.3	33.3	13.3	80	15
06Z09	.0	.0	4.2	75.0	16.7	4.2	77	24
12Z15	.0	.0	5.3	52.6	31.6	10.5	80	19
18Z21	.0	.0	.0	45.0	50.0	5.0	81	20
TOT	0	0	2	45	25	6	79	78

AUGUST

PERIOD: (PRIMARY) 1919-1972
(OVER-ALL) 1860-1972

AREA 0014 NORTHEAST JAVA SEA
4.7S 113.9E

TABLE 17

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

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.7	1	.0	.7
6	.0	.0	.7	.0	1	.0	.7
5	.0	.0	.0	1.4	2	.0	1.4
4	.0	.0	2.8	2.1	7	.0	4.9
3	.0	.0	1.4	.7	3	.0	2.1
2	.0	.7	7.0	.7	12	.0	8.4
1	.0	2.1	7.7	.0	14	.0	9.8
0	.0	10.5	23.1	.0	48	.0	33.6
-1	.0	7.7	4.9	.0	18	.0	12.6
-2	.0	9.8	8.4	.0	26	.0	18.2
-3	.0	2.8	.7	.0	5	.0	3.5
-4	.7	3.5	.0	.0	6	.0	4.2
TOTAL	1		81			0	143
		53		8	143		
PCT	.7	37.1	56.6	5.6	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	2.7	.0	.0	.0	2.7
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	2.7	.0	.0	.0	2.7

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	2.0	2.7	.0	.0	.0	4.7
3-4	.0	2.7	4.7	.0	.0	.0	7.4
5-6	.0	.0	4.1	.0	.0	.0	4.1
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	4.7	11.5	.0	.0	.0	16.2

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	38.5	5.4	.0	.0	.0	43.9
3-4	.0	5.4	11.5	.0	.0	.0	16.9
5-6	.0	.0	9.5	.0	.0	.0	9.5
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	43.9	26.4	.0	.0	.0	70.3

AUGUST

PERIOD: (OVER-ALL) 1963-1972

AREA 0014 NORTHEAST JAVA SEA
4.7S 113.9E

TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	2.7	.0	.0	.0	2.7	.0	.0	.0	.0	.0	.0	.0
3-4	.0	2.7	2.7	.0	.0	.0	5.4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.7	5.4	.0	.0	.0	8.1	.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	2.0	.0	.0	.0	2.0	.0	.0	.7	.0	.0	.0	.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	2.0	.0	.0	.0	2.0	.0	.0	.7	.0	.0	.0	.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	40.5	10.8	.0	.0	.0	51.4	
3-4	.0	10.8	24.3	.0	.0	.0	35.1	
5-6	.0	.0	13.5	.0	.0	.0	13.5	
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	51.4	48.6	.0	.0	.0	100.0	37

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	18.5	43.8	15.6	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	54	3
6-7	.0	1.6	4.7	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	4
8-9	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
10-11	.0	.0	1.6	.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	1.6	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	1
TOTAL	4	14	32	13	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	64	3
PCT	6.3	21.9	50.0	20.3	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1921-1969
(OVER-ALL) 1857-1969

AREA 0014 NORTHEAST JAVA SEA
4.7S 113.9E

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	.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	.0	2.2	1.1	.0	.0	.0	.0	96.7
SE	.0	.0	1.1	.0	.0	.0	.0	1.1	.3	1.3	1.1	.0	.0	.0	.0	96.2
S	.0	.0	.0	.0	.0	.0	.0	.0	5.6	5.6	3.7	.0	.0	.0	.0	85.2
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	.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	.0	.0	.6	.0	.0	.0	.0	.6	.6	1.9	1.3	.0	.0	.0	.0	95.6
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
00E03	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
06E09	.0	.0	2.2	.0	.0	.0	.0	2.2	2.2	.0	2.2	.0	.0	.0	.0	93.3
12E15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
18E21	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.0	2.3	.0	.0	.0	.0	90.7
TOT PCT	.0	.0	.6	.0	.0	.0	.0	.6	.6	1.9	1.3	.0	.0	.0	.0	95.6
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 FRQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.1	.3	.0	.0	.0	.0		.4	5.2	.4	.0	.0	.9	.0	1.3	.0	.8
E	.8	15.2	11.1	.1	.0	.0		27.3	10.2	20.7	25.4	28.7	19.1	19.4	35.0	43.2	37.5
SE	.9	36.2	21.3	1.1	.0	.0		59.5	10.4	66.8	62.3	52.2	65.5	62.0	55.0	46.2	54.2
S	.5	6.6	3.0	.0	.0	.0		10.1	9.0	9.3	12.3	10.3	12.7	14.8	8.8	4.5	5.8
SW	.5	.2	.0	.0	.0	.0		.8	3.9	1.4	.0	3.7	.0	.0	.0	3.0	.0
W	.2	.0	.0	.0	.0	.0		.2	3.0	.0	.0	2.2	.0	.0	.0	.0	.0
NW	.2	.0	.0	.0	.0	.0		.2	2.0	.0	.0	.0	.0	.0	.0	.0	1.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4							1.4	.0	1.4	.0	2.9	1.8	3.7	.0	3.0	.0
TOT OBS	20	243	147	5	0	0	415		10.0	70	69	34	55	54	40	33	60
TOT PCT	4.8	58.6	35.4	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	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
NE	.3	.1	.0	.0	.0		.4	5.2	.2	.6	.5	.5
E	4.5	21.6	1.3	.0	.0		27.3	10.2	23.0	22.8	26.1	39.5
SE	8.3	46.6	4.6	.0	.0		59.5	10.4	64.6	60.4	59.0	31.3
S	2.6	7.4	.1	.0	.0		10.1	9.0	10.8	11.8	12.2	5.4
SW	.8	.0	.0	.0	.0		.8	3.9	.7	1.4	.0	1.1
W	.2	.0	.0	.0	.0		.2	3.0	.0	.8	.0	.0
NW	.2	.0	.0	.0	.0		.2	2.0	.0	.0	.0	1.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.4						1.4	.0	.7	2.2	2.1	1.1
TOT OBS	76	314	25	0	0	415		10.0	139	89	94	93
TOT PCT	18.3	75.7	6.0	.0	.0		100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1921-1969
(OVER-ALL) 1857-1969

AREA 0014 NORTHEAST JAVA SEA
4.7S 113.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.7	2.2	54.0	41.0	2.2	.0	.0	10.7	100.0	139
06&09	2.2	4.5	48.3	44.9	.0	.0	.0	10.5	100.0	89
12&15	2.1	2.1	69.1	25.5	1.1	.0	.0	9.3	100.0	94
18&21	1.1	5.4	64.5	28.0	1.1	.0	.0	9.1	100.0	93
TOT	6	14	243	147	5	0	0	10.0		415
PCT	1.4	3.4	58.6	35.4	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	.0	.0		.0
NE	.0	.0	.0	.0		.0
E	10.2	7.9	11.8	.0		3.8
SE	17.4	12.2	24.3	.0		3.8
S	1.3	1.0	5.9	.0		5.1
SW	.0	.0	1.6	2.6		7.2
W	.0	.0	1.0	.0		6.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	2.6	.0		5.5
TOT OBS	22	16	36	2	76	4.1
TOT PCT	28.9	21.1	47.4	2.6	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	.0	.0	.0	.0	.0	
E	.0	.0	.0	.0	2.0	.0	.0	1.3	.0	.0	26.6	
SE	.0	.0	.0	.3	4.6	1.3	2.6	.0	.0	.0	45.1	
S	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	7.2	
SW	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	3.0	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
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	2.6	
TOT OBS	0	0	0	2	5	1	2	1	0	0	65	76
TOT PCT	.0	.0	.0	2.6	6.6	1.3	2.6	1.3	.0	.0	85.5	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	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	5.3	5.3	5.3	5.3	5.3	5.3	5.3
* OR >1000	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
* OR >600	13.2	14.5	14.5	14.5	14.5	14.5	14.5	14.5
* OR >300	13.2	14.5	14.5	14.5	14.5	14.5	14.5	14.5
* OR >150	13.2	14.5	14.5	14.5	14.5	14.5	14.5	14.5
* OR > 0	13.2	14.5	14.5	14.5	14.5	14.5	14.5	14.5
TOTAL	10	11	11	11	11	11	11	11

TOTAL NUMBER OF OBS: 76 PCT FREQ NH <5/8: 85.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
9.3	15.1	31.4	11.6	16.3	9.3	2.3	3.5	1.2	.0	86

SEPTEMBER

PERIOD: (PRIMARY) 1921-1969
(OVER-ALL) 1857-1969

AREA 0014 NORTHEAST JAVA SEA
4.7S 113.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR 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	.3	.0	.0	
	NO PCP	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.6	
	TOT %	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.6	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.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	.3	.3	.0	.0	.0	.0	.0	.6	
	TOT %	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.6	
5<10	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	3.6	6.4	.0	.6	.0	.0	.0	.0	10.7	
	TOT %	.0	.0	3.6	6.4	.0	.6	.0	.0	.0	.0	10.7	
10+	PCP	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.6	
	NO PCP	.0	.2	24.7	50.6	8.2	1.4	.5	.0	.0	1.9	87.4	
	TOT %	.0	.2	24.7	51.3	8.2	1.4	.5	.0	.0	1.9	88.1	
	TOT OBS												159
	TOT PCT	.0	.2	28.6	58.3	2.5	2.0	.5	.0	.0	1.9	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.3	1.4	.0	.0	.0	.0	.0		1.7	
	11-21	.0	.0	.2	.2	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.5	1.6	.0	.0	.0	.0	.0	.0	2.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	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	.2	.2	.0	.0	.0	.0	.0	.0	.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.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	.7	.7	.3	.0	.0	.0	.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	.0	.7	.7	.3	.0	.0	.0	.0	.0	1.7	
5<10	0-3	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
	4-10	.0	.0	1.4	2.4	.0	.0	.0	.0	.0		3.8	
	11-21	.0	.0	1.0	1.8	.0	.0	.0	.0	.0		2.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	2.3	4.3	.0	.3	.0	.0	.0	.0	6.9	
10+	0-3	.0	.0	.3	.4	.3	.4	.3	.0	.0	1.0	2.8	
	4-10	.0	.3	13.3	30.5	5.3	.3	.0	.0	.0		49.7	
	11-21	.0	.0	13.4	20.3	2.4	.0	.0	.0	.0		36.1	
	22+	.0	.0	.2	.2	.0	.0	.0	.0	.0		.3	
	TOT %	.0	.3	27.2	51.4	8.0	.8	.3	.0	.0	1.0	88.9	
	TOT OBS												288
	TOT PCT	.0	.3	30.9	58.1	8.3	1.1	.3	.0	.0	1.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1921-1969
(OVER-ALL) 1857-1969

AREA 0014 NORTHEAST JAVA SEA
4.7S 113.9E

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
00603	.0	.0	.0	.0	.0	.0	4.8	.0	.0	.0	4.8	95.2	21
06609	.0	.0	.0	4.2	20.8	.0	4.2	.0	.0	.0	29.2	70.8	24
12615	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	17
18621	.0	.0	.0	4.8	.0	4.8	.0	4.8	.0	.0	14.3	85.7	21
TOT	0	0	0	2	5	1	2	1	0	0	11	72	83
PCT	.0	.0	.0	2.4	6.0	1.2	2.4	1.2	.0	.0	13.3	86.7	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
00603	2.0	.0	.0	2.0	6.1	89.8	98
06609	.0	.0	.0	1.6	12.9	85.5	62
12615	3.4	.0	.0	1.7	3.4	91.4	58
18621	2.9	1.4	.0	1.4	5.7	88.6	70
TOT	6	1	0	5	20	256	288
PCT	2.1	.3	.0	1.7	6.9	88.9	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	[illegible] 0 [illegible]	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00603	.0	.0	.0	4.8	95.2	21
06609	.0	.0	4.5	27.3	68.2	22
12615	.0	.0	.0	.0	100.0	14
18621	.0	.0	5.3	10.5	84.2	19
TOT	0	0	2	9	65	76
PCT	.0	.0	2.6	11.8	85.5	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	1.0	.0	.0	.0	.0	1	1.0
85/89	.0	.0	.0	.0	3.0	4.0	1.0	1.0	9	9.1
80/84	.0	.0	.0	.0	2.0	36.4	34.3	7.1	79	79.8
75/79	.0	.0	.0	.0	.0	3.0	6.1	1.0	10	10.1
TOTAL	0	0	0	1	5	43	41	9	99	100.0
PCT	.0	.0	.0	1.0	5.1	43.4	41.4	9.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	3.3	4.8	.0	.3	.8	.0	.0	.0
.0	.3	25.5	41.4	6.6	3.0	.0	.0	.0	3.0
.0	.0	1.5	7.1	1.5	.0	.0	.0	.0	.0
.0	.3	31.3	53.3	8.1	3.3	.8	.0	.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
00603	90	88	84	82	79	78	77	81.9	133
06609	92	90	89	82	80	79	78	83.1	87
12615	84	83	83	81	79	77	77	80.8	93
18621	84	82	82	80	77	76	76	80.1	89
TOT	92	90	85	81	79	77	76	81.5	402

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	.0	.0	46.2	46.2	7.7	81	26
06609	.0	3.4	17.2	48.3	24.1	6.9	76	29
12615	.0	.0	.0	44.4	50.0	5.6	81	18
18621	.0	.0	.0	34.6	50.0	15.4	84	26
TOT	0	1	5	43	41	9	80	99

SEPTEMBER

PERIOD: (PRIMARY) 1921-1969
(OVER-ALL) 1857-1969

AREA 0014 NORTHEAST JAVA SEA
4.7S 113.9E

TABLE 17

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

AIR-SEA TMP DIF	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
9/10	.0	.0	.0	1.4	2	.0	1.4
7/8	.0	.0	.0	1.4	2	.0	1.4
5	.0	.0	3.5	.7	6	.0	4.3
4	.0	2.1	.7	.0	4	.0	2.8
3	.0	.0	1.4	.0	2	.0	1.4
2	.0	12.1	1.4	.0	19	.0	13.5
1	1.4	4.3	.0	.0	8	.0	5.7
0	3.5	25.5	.0	.0	41	.0	29.1
-1	3.5	12.8	.0	.0	23	.0	16.3
-2	7.1	7.1	.0	.0	20	.7	13.5
-3	2.1	2.1	.0	.0	6	.0	4.3
-4	2.1	.0	.0	.0	3	.0	2.1
-5	2.1	.0	.0	.0	3	.0	2.1
-6	1.4	.0	.0	.0	2	.0	1.4
TOTAL	33	93	10	5	141	1	140
PCT	23.4	66.0	7.1	3.5	100.0	.7	99.3

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

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

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	8.2	4.8	.0	.0	.0	13.0
3-4	.0	5.8	4.3	.0	.0	.0	10.1
5-6	.0	.0	8.7	.0	.0	.0	8.7
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	13.9	17.8	.0	.0	.0	31.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	4.3	.0	.0	.0	.0	4.3
1-2	.0	13.5	5.3	.0	.0	.0	18.8
3-4	.0	2.9	15.4	.0	.0	.0	18.3
5-6	.0	1.9	2.9	.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	.0	22.6	23.6	.0	.0	.0	46.2

PERIOD: (OVER-ALL) 1963-1969

SEPTEMBER

AREA 0014 NORTHEAST JAVA SEA
4.7S 113.9E

TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.4	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.9	1.4	.0	.0	.0	4.3	3.8	1.9	.0	.0	.0	.0	5.8
3-4	.0	2.9	1.4	.0	.0	.0	4.3	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.2	2.9	.0	.0	.0	10.1	3.8	1.9	.0	.0	.0	.0	5.8

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.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	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	5.8	.0	.0	.0	.0	11.5	
1-2	3.8	26.9	11.5	.0	.0	.0	42.3	
3-4	.0	11.5	21.2	.0	.0	.0	32.7	
5-6	.0	1.9	11.5	.0	.0	.0	13.5	
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	9.6	46.2	44.2	.0	.0	.0	100.0	52

PERIOD: (OVER-ALL) 1953-1969

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.3	33.8	26.0	15.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	59	3
6-7	.0	1.3	3.9	5.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	4
8-9	.0	2.6	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	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	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	2.6	2.6	1.3	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	2
TOTAL	3	31	25	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	77	3
PCT	3.9	40.3	32.5	23.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1920-1971
(OVER-ALL) 1885-1971

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.1E

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 BLWG	DUST SNOW	NO SIG WEA
N	28.6	.0	14.3	.0	.0	.0	.0	42.9	.0	.0	.0	.0	.0	.0	.0	57.1
NE	.0	.0	9.1	.0	.0	.0	.0	9.1	.0	.0	.0	.0	.0	.0	.0	90.9
E	.0	1.1	.0	.0	.0	.0	.0	1.1	.0	1.6	1.1	.0	1.1	.0	.0	95.1
SE	.9	.5	.0	.0	.0	.0	.0	1.4	.0	3.0	2.3	.0	1.4	.0	.0	91.8
S	.0	.0	5.1	.0	.0	.0	.0	5.1	.0	5.1	.0	.0	5.1	.0	.0	84.6
SW	.0	.0	.0	.0	.0	.0	.0	.0	4.8	.0	.0	.0	.0	.0	.0	95.2
W	11.8	5.9	.0	.0	.0	.0	.0	17.6	4.4	11.8	.0	.0	.0	.0	.0	72.1
NW	20.0	.0	.0	.0	.0	.0	.0	20.0	.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	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20.0	.0	.0	80.0
TOT PCT	2.3	.9	.9	.0	.0	.0	.0	4.2	.5	3.3	1.4	.0	1.9	.0	.0	89.2
TOT OBS:	213															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00-03	1.9	.0	1.9	.0	.0	.0	.0	3.8	1.9	1.9	1.9	.0	1.9	.0	.0	90.4
06-09	1.8	.0	1.8	.0	.0	.0	.0	3.6	.0	.0	1.8	.0	1.8	.0	.0	92.9
12-15	.0	2.0	.0	.0	.0	.0	.0	2.0	.0	.0	2.0	.0	4.0	.0	.0	92.0
18-21	5.2	1.7	.0	.0	.0	.0	.0	6.9	.0	10.3	.0	.0	.0	.0	.0	82.8
TOT PCT	2.3	.9	.9	.0	.0	.0	.0	4.2	.5	3.2	1.4	.0	1.9	.0	.0	89.4
TOT OBS:	216															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-	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	5.5	.7	.7	2.3	.0	.0	.0	2.5	2.0
NE	.4	1.5	.1	.0	.0	.0		2.0	5.3	1.3	.7	3.5	.0	4.9	5.8	.0	1.0
E	1.[illegible]	13.2	6.6	.6	.0	.0		21.6	9.3	20.0	22.3	15.7	22.4	19.4	21.5	18.1	32.8
SE	1.0	39.4	13.3	.3	.0	.0		53.9	9.2	55.3	61.5	51.2	59.9	50.4	51.7	45.6	48.5
S	1.0	8.9	1.1	.0	.0	.0		11.0	7.4	11.3	5.8	15.1	13.2	13.4	9.3	10.0	5.9
SW	.2	2.0	.3	.0	.0	.0		2.5	6.5	3.0	.7	1.2	1.5	4.2	4.7	3.8	2.0
W	1.6	2.4	.4	.0	.0	.0		4.4	6.0	7.0	3.7	5.2	1.5	3.5	.0	11.9	3.9
NW	.1	.8	.2	.0	.0	.0		1.1	8.7	.0	1.7	3.5	.0	1.4	.0	.6	2.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.6							2.6	.0	1.3	.0	2.3	1.5	2.8	7.0	7.5	2.0
TOT OBS	38	320	103	4	0	0	465		8.4	75	74	43	68	71	43	40	51
TOT PCT	8.2	68.8	22.2	.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	.6	.2	.0	.0	.0		.9	5.5	.7	.9	.0	2.2
NE	1.7	.3	.0	.0	.0		2.0	5.3	1.0	1.4	5.3	.5
E	7.8	12.1	1.6	.2	.0		21.6	9.3	21.1	19.8	20.2	28.4
SE	13.0	39.4	1.5	.1	.0		53.9	9.2	58.4	58.5	50.9	47.3
S	4.5	6.5	.0	.0	.0		11.0	7.4	10.1	14.0	11.8	7.7
SW	1.8	.7	.0	.0	.0		2.5	6.5	1.8	1.4	4.4	2.7
W	2.8	1.6	.0	.0	.0		4.4	6.0	5.4	2.9	2.2	7.4
NW	.3	.8	.0	.0	.0		1.1	8.7	.8	1.4	.9	1.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.6						2.6	.0	.7	1.8	4.4	4.4
TOT OBS	164	286	14	1	0	465		8.4	149	111	114	91
TOT PCT	35.3	61.5	3.0	.2	.0		100.0		100.0	100.0	100.0	100.0

OCTOBER

PERIOD: (PRIMARY) 1920-1971
(OVER-ALL) 1858-1971

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
			WIND SPEED (KNOTS)							
00603	.7	6.0	71.1	21.5	.7	.0	.0	8.5	100.0	149
06609	1.8	4.5	65.8	26.1	1.8	.0	.0	9.0	100.0	111
12615	4.4	6.1	73.7	14.9	.9	.0	.0	7.8	100.0	114
18621	4.4	5.5	62.6	27.5	.0	.0	.0	8.5	100.0	91
TOT	12	26	320	103	4	0	0	8.4		465
PCT	2.6	5.6	68.8	22.2	.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	.0	.0	.9	.0		7.0
NE	.0	.0	2.6	.0		5.6
E	7.3	1.7	7.9	.0		3.8
SE	13.7	17.7	17.3	.9		3.7
S	4.7	3.6	3.6	.9		3.4
SW	.0	1.1	.4	1.1		5.8
W	.0	4.7	2.6	3.2		5.4
NW	.0	.2	1.5	.9		6.5
VAR	.0	.0	.0	.0		.0
CALM	.9	.0	.9	.0		3.5
TOT OBS	31	34	44	8	117	4.1
TOT PCT	26.5	29.1	37.6	6.8	100.0	

TABLE 6

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

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	
E	.0	.0	.0	1.5	.9	.6	.6	.0	.0	.9	12.4	
SE	.0	.0	.0	.2	3.4	1.1	1.9	.9	.0	.0	42.1	
S	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	12.0	
SW	.0	.0	.0	.9	.2	.0	.0	.2	.0	.0	1.3	
W	.0	.0	.0	.0	2.4	.0	.6	.6	.0	.0	6.8	
NW	.0	.0	.0	.9	.0	.0	.2	.0	.0	.0	1.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.9	
TOT OBS	0	0	0	5	8	2	5	2	0	1	94	117
TOT PCT	.0	.0	.0	4.3	6.8	1.7	4.3	1.7	.0	.9	80.3	100.0

TABLE 7

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

CEILING (FEET)	* OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
			VSBY (NM)					
* OR >6500	.0	.9	.9	.9	.9	.9	.9	.9
* OR >5000	1.7	2.6	2.6	2.6	2.6	2.6	2.6	2.6
* OR >3500	6.0	6.8	6.8	6.8	6.8	6.8	6.8	6.8
* OR >2000	7.7	8.5	8.5	8.5	8.5	8.5	8.5	8.5
* OR >1000	12.8	13.7	15.4	15.4	15.4	15.4	15.4	15.4
* OR >600	15.4	17.9	19.7	19.7	19.7	19.7	19.7	19.7
* OR >300	15.4	17.9	19.7	19.7	19.7	19.7	19.7	19.7
* OR >150	15.4	17.9	19.7	19.7	19.7	19.7	19.7	19.7
* OR > 0	15.4	17.9	19.7	19.7	19.7	19.7	19.7	19.7
TOTAL	18	21	23	23	23	23	23	23

TOTAL NUMBER OF OBS: 117 PCT FREQ NH <5/8: 80.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
11.4	17.9	22.0	19.5	9.8	12.2	.8	4.1	2.4	.0	123

OCTOBER

PERIOD: (PRIMARY) 1920-1971
(OVER-ALL) 1858-1971

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.1E

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	.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	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	
	NO PCP	.0	.0	.7	.7	.0	.0	.0	.0	.0	.5	1.9	
	TOT %	.5	.0	.7	.7	.0	.0	.0	.0	.0	.5	2.3	
2<5	PCP	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.9	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.9	
5<10	PCP	.2	.2	.2	.7	.0	.0	.0	.5	.0	.0	1.9	
	NO PCP	.5	.7	3.4	7.6	1.6	.7	1.4	.0	.0	.5	16.4	
	TOT %	.7	.9	3.6	8.3	1.6	.7	1.4	.5	.0	.5	18.3	
10+	PCP	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.9	
	NO PCP	.5	1.6	17.0	41.1	7.0	1.8	5.2	1.9	.0	1.4	77.5	
	TOT %	.5	1.6	17.0	41.1	7.5	1.8	5.6	1.9	.0	1.4	78.4	
	TOT OBS												213
	TOT PCT	1.6	2.6	21.4	50.1	9.2	2.4	8.0	2.3	.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	.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	.3	.3	
	4-10	.3	.0	.3	.6	.0	.0	.0	.0	.0		1.2	
	11-21	.0	.0	.3	.0	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.0	.6	.6	.0	.0	.0	.0	.0	.3	1.8	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	
	4-10	.0	.0	.6	.5	.2	.0	.0	.0	.0		1.2	
	11-21	.0	.0	.0	.0	.0	.0	.6	.0	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.6	.5	.2	.0	.6	.0	.0	.3	2.1	
5<10	0-3	.0	.0	.0	.3	.3	.0	.6	.0	.0	.3	1.5	
	4-10	.5	.6	1.5	4.8	.8	.2	.3	.0	.0		8.6	
	11-21	.0	.0	1.5	1.0	.0	.3	.0	.3	.0		3.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.5	.6	3.0	6.1	1.1	.5	.9	.3	.0	.3	13.2	
10+	0-3	.3	.6	.8	.8	.3	.1	1.1	.1	.0	1.2	5.2	
	4-10	.0	.8	10.3	33.1	7.9	2.1	2.6	1.2	.0		58.0	
	11-21	.0	.0	5.8	11.4	1.3	.2	.0	.0	.0		18.7	
	22+	.0	.0	.7	.2	.0	.0	.0	.0	.0		.9	
	TOT %	.3	1.4	17.6	45.6	9.5	2.4	3.7	1.2	.0	1.2	82.8	
	TOT OBS												926
	TOT PCT	1.1	2.0	21.8	52.7	10.7	2.8	5.2	1.5	.0	2.1	100.0	

OCTOBER

PERIOD: (PRIMARY) 1920-1971
(OVER-ALL) 1858-1971

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.1E

TABLE 10

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

HOUR (GMT)	000 149	150 299	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	8.0	4.0	4.0	.0	.0	.0	16.0	84.0	25
06Z09	.0	.0	.0	8.8	11.8	.0	.0	2.9	.0	.0	23.5	76.5	34
12Z15	.0	.0	.0	7.1	.0	.0	3.6	3.6	.0	3.6	17.9	82.1	28
18Z21	.0	.0	.0	.0	5.7	2.9	8.6	.0	.0	.0	17.1	82.9	35
TOT	0	0	0	5	8	2	5	2	0	1	23	99	122
PCT	.0	.0	.0	4.1	6.6	1.6	4.1	1.6	.0	.8	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
00Z03	.0	.0	2.1	.0	12.4	85.6	97
06Z09	.0	.0	1.9	2.6	11.5	84.6	78
12Z15	.0	.0	1.3	2.5	16.5	79.7	79
18Z21	.0	.0	2.7	4.0	14.7	78.7	75
TOT	0	0	6	7	45	271	329
PCT	.0	.0	1.8	2.1	13.7	82.4	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
00Z03	.0	.0	.0	16.0	84.0	25
06Z09	.0	.0	9.4	15.6	75.0	32
12Z15	.0	.0	7.1	10.7	82.1	28
18Z21	.0	.0	6.3	12.5	81.3	32
TOT	0	0	7	16	94	117
PCT	.0	.0	6.0	13.7	80.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.0	.7	.0	.0	1	.7
85/89	.0	.0	.0	.0	3.6	4.4	1.5	.0	13	9.5
80/84	.0	.0	.0	.0	1.5	51.1	27.7	4.4	116	84.7
75/79	.0	.0	.0	.0	.0	.7	3.6	.7	7	5.1
TOTAL	0	0	0	0	7	78	45	7	137	100.0
PCT	.0	.0	.0	.0	5.1	56.9	32.8	5.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0
	.0	.4	2.4	6.2	.5	.0	.0	.0	.0	.0
	1.5	2.2	17.5	43.2	8.4	2.0	5.8	1.1	.0	2.9
	.0	.0	.4	1.8	.0	.9	1.3	.7	.0	.0
	1.5	2.6	20.3	52.0	8.9	2.9	7.1	1.8	.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
00Z03	89	88	85	82	80	78	77	82.5	149
06Z09	90	89	87	83	80	78	78	83.2	111
12Z15	85	84	84	82	80	78	78	82.1	116
18Z21	84	83	83	81	79	75	75	81.2	91
TOT	90	88	85	82	80	77	75	82.3	467

TABLE 16

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	55.2	31.0	13.8	81	29
06Z09	.0	.0	15.2	57.6	24.2	3.0	76	33
12Z15	.0	.0	5.3	57.9	34.2	2.6	78	38
18Z21	.0	.0	.0	53.8	43.6	2.6	80	39
TOT	0	0	7	78	47	7	79	139

OCTOBER

PERIOD: (PRIMARY) 1920-1971
(OVER-ALL) 1858-1971

TABLE 17

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.1E

PCT 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	.6	.6	2	.0	1.1
4	.0	.0	2.2	1.7	.0	7	.0	3.9
2	.0	.0	7.8	1.1	.0	16	.0	8.9
1	.0	.0	8.9	.6	.0	17	.6	8.9
0	.0	1.1	30.7	1.1	.0	59	1.1	31.8
-1	.0	.6	7.3	1.1	.0	16	.0	8.9
-2	.0	4.5	19.6	.0	.0	43	.0	24.0
-3	.0	.6	3.9	.0	.0	8	.0	4.5
-4	.0	2.2	1.7	.0	.0	7	.0	3.9
-6	.0	.6	.6	.0	.0	2	.0	1.1
-7/-8	.6	.0	.0	.0	.0	1	.0	.6
-9/-10	.6	.0	.0	.0	.0	1	.0	.6
TOTAL	2	17	148	11	1	179	3	176
PCT	1.1	9.5	82.7	6.1	.6	100.0	1.7	98.3

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	.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	1.9	.0	.0	.0	.0	1.9
1-2	.0	10.1	1.4	.0	.0	.0	11.5
3-4	.0	1.9	11.1	.0	.0	.0	13.0
5-6	.0	.0	1.4	.0	.0	.0	1.4
7	.0	.0	.0	1.4	.0	.0	1.4
8-9	.0	.0	1.4	1.4	.0	.0	2.9
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	13.9	15.4	2.9	.0	.0	32.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	5.8	.0	.0	.0	.0	5.8
1-2	.0	15.9	2.4	.0	.0	.0	18.3
3-4	.0	15.4	10.1	.0	.0	.0	25.5
5-6	.0	.0	2.4	.0	.0	.0	2.4
7	.0	.0	.0	.5	.0	.0	.5
8-9	.0	.0	.5	.5	.0	.0	1.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	37.0	15.4	1.0	.0	.0	53.4

PERIOD: (OVER-ALL) 1963-1971

OCTOBER

TABLE 18 (CONT)

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.1E

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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.9	.0	.0	.0	.0	2.9	.0	3.8	.0	.0	.0	.0	3.8
3-4	.0	1.9	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.8	.0	.0	.0	.0	4.8	.0	3.8	.0	.0	.0	.0	3.8

	W							NW							
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.0	.0	.0	1.9	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.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	1.9	.0	.0	.0	1.9	96.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.8	7.7	.0	.0	.0	.0	11.5	
1-2	.0	32.7	3.8	.0	.0	.0	36.5	
3-4	.0	19.2	23.1	.0	.0	.0	42.3	
5-6	.0	.0	3.8	.0	.0	.0	3.8	
7	.0	.0	.0	1.9	.0	.0	1.9	
8-9	.0	.0	1.9	1.9	.0	.0	3.8	
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	3.8	59.6	32.7	3.8	.0	.0	100.0	52

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	7.8	37.9	25.2	3.9	1.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	80	2
6-7	.0	1.0	4.9	4.9	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	5
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	1.0	2.9	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	2
TOTAL	9	43	35	9	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	103	3
PCT	8.7	41.7	34.0	8.7	4.9	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1922-1969
(OVER-ALL) 1869-1969

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.1E

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 BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	5.3	.0	.0	.0	.0	5.3	.0	.0	.0	.0	.0		.0	94.7
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	.0	.0	.0	.0	.0		.0	100.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	.0	.0	.0		.0	97.1
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.0	.0	.0	.0		.0	90.0
SW	2.7	8.2	.0	.0	.0	.0	.0	11.0	1.4	2.7	.0	.0	.0		.0	84.9
W	5.7	1.4	.0	.0	.0	.0	.0	7.1	5.0	12.1	.0	.0	.0		.0	78.7
NW	7.1	.0	2.4	.0	.0	.0	.0	9.4	.0	15.3	.0	.0	.0		.0	75.3
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	11.1	.0	.0	11.1		.0	77.8
TOT PCT	2.3	1.1	.6	.0	.0	.0	.0	4.0	1.1	6.3	.0	.0	.6		.0	88.6
TOT OBS:	175															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER 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	2.2	2.2	.0	.0	.0	.0	.0	4.3	2.2	6.5	.0	.0	2.2		.0	84.8
06E09	2.4	.0	2.4	.0	.0	.0	.0	4.8	2.4	2.4	.0	.0	.0		.0	90.5
12E15	.0	2.2	.0	.0	.0	.0	.0	2.2	.0	6.5	.0	.0	.0		.0	91.3
18E21	4.7	.0	.0	.0	.0	.0	.0	4.7	.0	9.3	.0	.0	.0		.0	88.4
TOT PCT	2.3	1.1	.6	.0	.0	.0	.0	4.0	1.1	6.2	.0	.0	.6		.0	88.7
TOT OBS:	177															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	2.5	.1	.0	.0	.0		3.7	5.9	4.9	1.7	5.0	5.3	3.0	3.8	.0	4.1
NE	2.3	4.4	.2	.0	.0	.0		7.0	4.7	3.6	5.9	9.0	7.9	3.8	14.1	4.2	10.7
E	1.8	14.1	1.5	.0	.0	.0		17.3	6.8	12.3	20.3	7.0	14.9	15.2	23.1	8.3	29.5
SE	3.1	16.2	1.5	.0	.0	.0		20.8	6.6	23.1	32.2	21.0	30.7	15.2	11.5	2.1	17.2
S	2.2	7.7	.4	.0	.0	.0		10.3	5.4	16.9	13.6	4.0	9.6	8.7	6.4	9.4	6.6
SW	2.4	6.2	.6	.0	.0	.0		9.1	5.3	9.7	5.5	15.0	8.8	8.7	10.3	18.8	5.7
W	1.3	9.1	4.4	.5	.0	.0		15.3	9.0	14.0	8.1	26.0	13.2	21.2	14.1	28.1	10.7
NW	1.2	7.0	1.2	.0	.0	.0		9.4	7.3	3.9	9.3	9.0	7.9	18.2	6.4	20.8	5.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.1							7.1	.0	11.7	3.4	4.0	1.8	6.1	10.3	8.5	9.8
TOT OBS	92	274	40	2	0	0	408		6.2	77	59	25	57	66	39	24	61
TOT PCT	22.5	67.2	9.8	.5	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.2	1.3	.1	.0	.0		3.7	5.9	3.5	5.2	3.3	2.9
NE	5.9	1.1	.0	.0	.0		7.0	4.7	4.6	8.2	7.6	8.8
E	9.2	8.1	.0	.0	.0		17.3	6.8	15.8	12.5	18.1	23.5
SE	11.2	9.6	.0	.0	.0		20.8	6.6	27.0	27.7	13.8	12.9
S	8.1	2.0	.2	.0	.0		10.3	5.4	15.4	7.9	7.9	7.4
SW	7.2	1.9	.0	.0	.0		9.1	5.3	7.9	10.7	9.3	9.4
W	6.5	7.5	1.2	.0	.0		15.3	9.0	11.4	17.1	18.6	15.6
NW	4.6	4.4	.4	.0	.0		9.4	7.3	6.3	8.2	13.8	10.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	7.1						7.1	.0	8.1	2.4	7.6	9.4
TOT OBS	253	147	8	0	0	408		6.2	136	82	105	85
TOT PCT	62.0	36.0	2.0	.0	.0		100.0		100.0	100.0	100.0	100.0

NOVEMBER

PERIOD: (PRIMARY: 1922-1969
(OVER-ALL) 1869-1969

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00603	8.1	11.0	70.6	9.6	.7	.0	.0	6.5	100.0	136
06609	2.4	17.1	73.2	7.3	.0	.0	.0	6.1	100.0	82
12615	7.6	19.0	60.0	12.4	1.0	.0	.0	6.3	100.0	105
18621	9.4	16.5	64.7	9.4	.0	.0	.0	5.7	100.0	85
TOT	29	63	274	40	2	0	0	6.2		408
PCT	7.1	15.4	67.2	9.8	.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	1.0	3.1		7.5
NE	.0	.0	2.3	.3		6.3
E	3.8	3.6	2.6	.0		3.4
SE	1.3	4.6	6.4	1.0		5.2
S	1.0	3.6	.0	1.0		3.8
SW	1.0	5.6	3.8	5.6		5.7
W	.0	6.9	9.0	9.4		6.0
NW	1.0	2.3	4.6	7.1		6.0
VAR	.0	.0	.0	.0		.0
CALM	3.1	2.0	2.0	.0		3.4
TOT OBS	11	28	32	27	98	5.4
TOT PCT	11.2	28.6	32.7	27.6	100.0	

TABLE 6

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

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	1.5	1.5	.0	.0	.0	.0	1.0	
NE	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	2.3	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.9	
SE	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	12.2	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	
SW	.0	.0	.0	1.0	1.3	.5	.0	.0	.3	.0	13.0	
W	.0	.0	.0	2.8	3.8	4.6	.0	.0	.8	.0	14.3	
NW	.0	.0	.0	1.3	1.3	.5	.0	.0	.0	.0	12.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	1.0	.0	.0	1.0	.0	.0	.0	5.1	
TOT OBS	0	0	0	7	8	[illegible]	1	0	1	0	74	98
TOT PCT	.0	.0	.0	7.1	8.2	7.1	[illegible]	.0	1.0	.0	75.5	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) • OR >10	• OR >5	• OR >2	• OR >1	• OR >1/2	• OR >1/4	• OR >500YD	• OR >0
• OR >6500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
• OR >5000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
• OR >3500	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
• OR >2000	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
• OR >1000	13.3	14.3	17.3	17.3	17.3	17.3	17.3	17.3
• OR >600	17.3	20.4	24.5	24.5	24.5	24.5	24.5	24.5
• OR >300	17.3	20.4	24.5	24.5	24.5	24.5	24.5	24.5
• OR >150	17.3	20.4	24.5	24.5	24.5	24.5	24.5	24.5
• OR > 0	17.3	20.4	24.5	24.5	24.5	24.5	24.5	24.5
TOTAL	17	20	24	24	24	24	24	24

TOTAL NUMBER OF OBS: 98 PCT FREQ NH <5/8: 75.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
5.8	12.5	26.0	18.3	10.6	4.8	9.6	3.8	8.7	.0	104

NOVEMBER

PERIOD: (PRIMARY) 1922-1969
(OVER-ALL) 1869-1969

AREA 0014 NORTHEAST JAVA SEA
4.75 114.1E

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	.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	.9	.6	.3	.0	.0	1.7	
	NO PCP	.0	.0	.0	.0	.0	.9	1.9	.1	.0	.0	2.3	
	TOT %	.0	.0	.0	.0	.0	1.1	2.4	.4	.0	.0	4.0	
5<10	PCP	.0	.0	.0	.0	.0	.9	.3	.6	.0	.0	1.1	
	NO PCP	1.0	.4	.9	3.1	.9	.6	.6	1.1	.0	.6	9.1	
	TOT %	1.0	.4	.9	3.1	.9	.9	.9	1.7	.0	.6	10.3	
10+	PCP	.3	.0	.0	.0	.0	.0	.6	.3	.0	.0	1.1	
	NO PCP	4.1	5.9	14.1	16.6	4.9	8.4	16.3	9.7	.0	4.6	84.6	
	TOT %	4.4	5.9	14.1	16.6	4.9	8.4	16.9	10.0	.0	4.6	85.7	
	TOT OBS												175
	TOT PCT	5.4	6.3	15.0	19.7	5.7	10.4	20.1	12.1	.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	1.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
	4-10	.0	.0	.5	.5	.0	.5	.2	.0	.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	1.0	.5	.5	.0	.5	.2	.0	.0	.0	2.7	
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	.2	.7	.2	.0	.4	1.0	.3	.0		2.7	
	11-21	.0	.0	.0	.0	.0	.4	.6	.0	.0		1.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	.7	.2	.0	.8	1.6	.3	.0	.0	3.7	
5<10	0-3	.5	.2	.0	.3	.0	.0	.0	.0	.0	1.0	2.0	
	4-10	.4	.3	.8	1.9	.5	.5	.7	1.4	.0		6.4	
	11-21	.0	.0	.0	.0	.0	.0	.3	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.9	.4	.8	2.2	.5	.5	1.0	1.4	.0	1.0	8.8	
10+	0-3	.3	1.0	1.6	1.6	1.9	3.0	1.4	1.4	.0	6.4	18.6	
	4-10	2.6	4.6	11.5	15.5	6.1	4.9	9.1	5.8	.0		60.1	
	11-21	.0	.0	1.2	.8	.0	.0	3.3	.4	.0		5.7	
	22+	.0	.0	.0	.0	.0	.0	.3	.0	.0		.3	
	TOT %	3.0	5.7	14.3	17.9	7.9	7.9	14.2	7.6	.0	6.4	84.8	
	TOT OBS												296
	TOT PCT	3.9	7.3	16.3	20.8	8.4	9.7	17.0	9.2	.0	7.4	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1922-1969
(OVER-ALL) 1869-1969

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.1E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	17.9	10.7	14.3	.0	.0	.0	.0	42.9	57.1	28
06&09	.0	.0	.0	9.1	9.1	9.1	.0	.0	.0	.0	27.3	72.7	22
12&15	.0	.0	.0	.0	3.4	.0	3.4	.0	3.4	.0	10.3	89.7	29
18&21	.0	.0	.0	.0	9.5	4.8	.0	.0	.0	.0	14.3	85.7	21
TOT	0	0	0	7	8	7	1	0	1	0	24	76	100
PCT	.0	.0	.0	7.0	8.0	7.0	1.0	.0	1.0	.0	24.0	76.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	2.1	.0	.0	6.3	6.3	85.3	95
06&09	3.3	.0	.0	1.6	11.5	83.6	61
12&15	2.6	.0	.0	1.3	9.2	86.8	76
18&21	3.0	.0	.0	4.5	10.6	81.8	66
TOT	8	0	0	11	27	252	298
PCT	2.7	.0	.0	3.7	9.1	84.6	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	25.0	17.9	57.1	28
06&09	.0	.0	14.3	14.3	71.4	21
12&15	.0	.0	.0	10.7	89.3	28
18&21	.0	.0	.0	14.3	85.7	21
TOT	0	0	10	14	74	98
PCT	.0	.0	10.2	14.3	75.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	5.2	7.3	.0	.0	12	12.5
80/84	.0	.0	.0	.0	3.1	36.5	39.6	1.0	77	80.2
75/79	.0	.0	.0	.0	.0	.0	3.1	4.2	7	7.3
TOTAL	0	0	0	0	8	42	41	5	96	100.0
PCT	.0	.0	.0	.0	8.3	43.8	42.7	5.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	2.1	1.8	2.3	1.0	2.1	2.9	.3	.0	.0
	2.6	.5	8.3	12.2	7.8	9.1	20.1	13.3	.0	6.3
	1.0	.5	.0	1.0	.0	1.0	2.9	.8	.0	.0
	3.6	3.1	10.2	15.6	8.9	12.2	25.8	14.3	.0	6.3

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	89	88	86	84	78	76	72	83.0	136
06&09	88	87	87	83	77	75	75	83.1	82
12&15	87	86	85	82	80	78	78	82.3	107
18&21	84	83	83	82	79	77	77	81.9	85
TOT	89	88	86	83	79	76	72	82.6	410

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	4.2	41.7	41.7	12.5	81	24
06&09	.0	.0	27.3	31.8	31.8	9.1	77	22
12&15	.0	.0	3.2	51.6	45.2	.0	79	31
18&21	.0	.0	.0	42.9	57.1	.0	80	21
TOT	0	0	8	42	43	5	79	98

NOVEMBER

PERIOD: (PRIMARY) 1922-1969
(OVER-ALL) 1869-1969

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.1E

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	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
4	.0	.0	.0	.0	2.5	4	.0	2.5
3	.0	.0	.0	.0	.6	1	.0	.6
2	.0	.0	.0	2.5	1.9	7	.0	4.3
1	.0	.0	.0	1.9	.6	4	.0	2.5
0	.0	.0	.0	20.5	3.1	38	.0	23.6
-1	.0	.0	.6	12.4	1.2	23	.0	14.3
-2	.0	.0	2.5	24.2	1.2	45	.0	28.0
-3	.0	.0	1.9	4.3	.0	10	.0	6.2
-4	.0	.0	3.7	8.7	.0	20	.0	12.4
-5	.6	.0	1.2	.6	.0	4	.0	2.5
-6	.0	.0	1.2	.0	.0	2	.0	1.2
-7/-8	.0	.0	.6	.6	.0	2	.0	1.2
-9/-10	.0	.6	.0	.0	.0	1	.0	.6
TOTAL	1	1	19	122	18	161	0	161
PCT	.6	.6	11.8	75.8	11.2	100.0		100.0

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.2	.0	.0	.0	.0	2.2
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.2	.0	.0	.0	.0	2.2

NE

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

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	5.1	2.9	.0	.0	.0	8.1
3-4	.0	8.1	.0	.0	.0	.0	8.1
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	13.2	2.9	.0	.0	.0	16.2

SE

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	2.9	14.7	.0	.0	.0	.0	17.6
3-4	.0	.7	2.9	.0	.0	.0	3.7
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	5.9	15.4	2.9	.0	.0	.0	24.3

PERIOD: (OVER-ALL) 1963-1969

TABLE 18 (CONT)

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.1E

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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	2.9	2.9	.0	.0	.0	.0	5.9
3-4	.0	2.9	.0	.0	.0	.0	2.9	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.9	.0	.0	.0	.0	2.9	2.9	2.9	.0	.0	.0	.0	5.9

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.7	
1-2	.0	8.8	.0	.0	.0	.0	8.8	.0	11.8	.0	.0	.0	.0	11.8	
3-4	.0	7.1	2.2	.0	.0	.0	7.4	.0	3.7	.7	.0	.0	.0	4.4	
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	14.0	2.2	.0	.0	.0	16.2	.0	16.2	.7	.0	.0	.0	16.9	85.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	17.6	2.9	.0	.0	.0	.0	20.6	
1-2	5.9	44.1	2.9	.0	.0	.0	52.9	
3-4	.0	20.6	5.9	.0	.0	.0	26.5	
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	23.5	67.6	8.8	.0	.0	.0	100.0	34

PERIOD: (OVER-ALL) 1952-1969

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	14.6	28.0	20.7	2.5	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	60	2
6-7	1.2	.0	2.4	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	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	11.0	6.1	4.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	1
TOTAL	22	28	23	7	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82	2
PCT	26.8	34.1	29.0	8.5	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1908-1972
(OVER-ALL) 1871-1972

AREA 0014 NORTHEAST JAVA SEA
4.7S 113.7E

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	10.5	.0	.0	.0	.0	.0		89.5
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
SE	20.0	.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	.0		80.0
S	11.5	.0	.0	.0	.0	.0	.0	11.5	.0	.0	.0	.0	.0	.0		88.5
SW	5.7	8.6	.0	.0	.0	.0	.0	14.3	11.4	1.4	.0	.0	.0	.0		72.9
W	7.5	6.1	.0	.0	.0	.0	.0	13.6	3.3	4.7	.0	.0	.0	.0		78.5
NW	16.3	4.1	.0	.0	.0	.0	.0	20.3	7.3	10.6	.0	.0	.0	.0		61.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	12.5	.0	.0	.0	.0	.0	.0	12.5	.0	25.0	.0	.0	.0	.0		62.5
TOT PCT	8.8	4.4	.0	.0	.0	.0	.0	13.2	5.1	5.9	.0	.0	.0	.0		75.7
TOT OBS:	136															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER 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	16.2	.0	.0	.0	.0	.0	.0	16.2	8.1	.0	.0	.0	.0	.0		75.7
06E09	5.9	8.8	.0	.0	.0	.0	.0	14.7	8.8	.0	.0	.0	.0	.0		76.5
12E15	3.2	3.2	.0	.0	.0	.0	.0	6.5	3.2	9.7	.0	.0	.0	.0		80.6
18E21	7.5	5.0	.0	.0	.0	.0	.0	12.5	2.5	1	.0	.0	.0	.0		70.0
TOT PCT	8.5	4.2	.0	.0	.0	.0	.0	12.7	5.6	6.3	.0	.0	.0	.0		75.4
TOT OBS:	142															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	5.7	.7	.0	.0	.0		8.3	6.3	1.7	12.2	15.2	8.8	8.7	11.5	.0	5.0
NE	.7	1.7	.0	.0	.0	.0		2.4	5.3	.0	2.2	4.5	5.9	.0	.0	.0	7.5
E	2.9	1.9	.0	.0	.0	.0		4.9	3.6	1.7	4.4	6.1	.0	4.3	7.7	.0	17.5
SE	.4	1.0	.0	.0	.0	.0		1.3	4.1	1.7	2.2	.0	.0	5.4	.0	.0	.0
S	.3	2.8	.0	.0	.0	.0		4.1	5.0	3.4	4.4	2.3	5.9	3.3	7.7	3.8	5.0
SW	1.8	11.0	3.2	.0	.0	.0		16.0	8.2	22.4	12.2	12.9	32.4	14.1	30.8	9.6	7.5
W	2.8	19.7	13.2	.0	.0	.0		35.7	9.3	31.9	36.7	34.8	41.2	31.5	34.6	51.9	20.0
NW	2.3	12.5	4.2	1.0	.5	.0		20.5	10.1	23.3	21.1	21.2	5.9	23.9	7.7	26.9	22.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.8							6.8	.0	13.8	4.4	3.0	.0	8.7	.0	7.7	15.0
TOT OBS	43	116	44	2	1	0	206		7.8	29	45	33	17	23	13	26	20
TOT PCT	20.9	56.3	21.4	1.0	.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	4.6	3.6	.0	.0	.0		8.3	6.3	8.1	13.0	9.7	2.2
NE	1.7	.7	.0	.0	.0		2.4	5.3	1.4	5.0	.0	3.3
E	4.4	.5	.0	.0	.0		4.9	3.6	3.4	4.0	5.6	7.6
SE	1.3	.0	.0	.0	.0		1.3	4.1	2.0	.0	3.5	.0
S	3.3	.8	.0	.0	.0		4.1	5.0	4.1	3.5	4.9	4.3
SW	6.7	8.6	.7	.0	.0		16.0	8.2	16.2	19.5	20.1	8.7
W	12.3	21.1	2.3	.0	.0		35.7	9.3	34.8	37.0	32.0	38.0
NW	7.0	11.2	1.3	1.0	.0		20.5	10.1	22.0	16.0	18.1	25.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	6.8						6.8	.0	8.1	2.0	5.6	10.9
TOT OBS	99	96	9	2	0	206		7.8	74	50	36	46
TOT PCT	48.1	46.6	4.4	1.0	.0		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1908-1972
(OVER-ALL) 1871-1972

AREA 0014 NORTHEAST JAVA SEA
4.7S 113.7E

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	8.1	12.2	56.8	23.0	.0	.0	.0	7.7	100.0	74
06&09	2.0	12.0	62.0	22.0	2.0	.0	.0	8.3	100.0	50
12&15	5.6	25.0	50.0	13.9	2.8	2.8	.0	7.6	100.0	36
18&21	10.9	10.9	54.3	23.9	.0	.0	.0	7.5	100.0	46
TOT	14	29	116	44	2	1	0	7.8		206
PCT	6.8	14.1	56.3	21.4	1.0	.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	2.3	4.6	.0		5.6
NE	.0	.0	.0	.0		.0
E	.0	.0	.0	2.6		8.0
SE	.0	.0	.0	1.6		8.0
S	.0	.0	1.3	2.0		7.2
SW	.0	.0	6.3	3.0		6.9
W	4.9	6.3	17.4	14.5		5.9
NW	.3	2.0	14.8	6.6		6.6
VAR	.0	.0	.0	.0		.0
CALM	1.3	.0	2.6	5.3		6.2
TOT OBS	5	8	36	27	76	6.3
TOT PCT	6.6	10.5	47.4	35.5	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.2	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
E	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	1.3	
SE	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	1.3	
S	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	2.3	
SW	.0	.0	.0	2.6	2.6	1.3	.3	.0	.0	.0	2.3	
W	.0	.0	1.3	1.3	8.9	1.0	1.0	.0	.0	.0	29.6	
NW	.0	.0	.0	2.6	3.0	3.0	.0	.0	.0	.0	15.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	3.9	.0	.0	.0	.0	5.3	
TOT OBS	0	0	1	5	11	8	2	0	0	0	49	76
TOT PCT	.0	.0	1.3	6.6	14.5	10.5	2.6	.0	.0	.0	64.5	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >500YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	1.3	2.6	2.6	2.6	2.6	2.6	2.6	2.6
* OR >2000	9.0	11.5	12.8	12.8	12.8	12.8	12.8	12.8
* OR >1000	20.5	24.4	25.6	25.6	25.6	25.6	25.6	25.6
* OR >600	26.9	30.8	32.1	32.1	32.1	32.1	32.1	32.1
* OR >300	26.9	32.1	33.3	33.3	33.3	33.3	33.3	33.3
* OR >150	26.9	32.1	33.3	33.3	33.3	33.3	33.3	33.3
* OR > 0	26.9	32.1	33.3	33.3	33.3	33.3	33.3	33.3
TOTAL	21	25	26	26	26	26	26	26

TOTAL NUMBER OF OBS: 78 PCT FREQ NH <5/8: 66.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
1.2	6.0	28.6	11.9	17.9	9.5	6.0	4.8	14.3	.0	84

DECEMBER

PERIOD: (PRIMARY) 1908-1972
(OVER-ALL) 1871-1972

AREA 0014 NORTHEAST JAVA SEA
4.7S 113.7E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.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	.7	.0	.0	.0	.0	.0	.0	.0	.7	
	TOT %	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.7	
2<5	PCP	.0	.0	.0	.0	.0	.4	.7	1.9	.0	.0	3.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.4	.7	1.9	.0	.0	3.0	
5<10	PCP	.0	.0	.0	.0	.0	1.9	4.1	1.9	.0	.0	7.4	
	NO PCP	1.3	1.1	1.1	.0	.6	2.8	6.7	3.5	.0	.7	17.8	
	TOT %	1.3	1.1	1.1	.0	.6	4.3	10.7	5.4	.0	.7	25.2	
10+	PCP	.0	.0	.0	.2	.6	.0	.6	.9	.0	.7	3.0	
	NO PCP	5.7	1.1	2.6	.7	3.7	8.3	26.9	14.6	.0	4.4	68.1	
	TOT %	5.7	1.1	2.6	.9	4.3	8.3	27.4	15.6	.0	5.2	71.1	
	TOT OBS												135
	TOT PCT	7.0	2.2	4.4	.9	4.8	13.0	38.9	22.8	.0	5.9	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	.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	.4	.0	.7	.0	.0	.0	.0	.4	.0		1.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.4	.0	.7	.0	.0	.0	.0	.4	.0	.0	1.4	
2<5	0-3	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.7	
	4-10	.0	.0	.0	.0	.0	.4	.7	1.1	.0		2.1	
	11-21	.0	.0	.0	.0	.0	.4	3.2	.7	.0		4.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.7	.0	.0	.7	3.9	1.8	.0	.0	7.0	
5<10	0-3	1.2	1.1	1.1	.0	.0	.0	.0	.2	.0	.7	4.2	
	4-10	.0	.0	.0	.0	.5	3.3	7.6	4.0	.0		15.5	
	11-21	.0	.0	.0	.0	.0	.7	2.6	.9	.0		4.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	1.2	1.1	1.1	.0	.5	4.0	10.2	5.1	.0	.7	23.9	
10+	0-3	.4	.0	1.4	.2	1.9	1.6	3.0	1.4	.0	4.9	14.8	
	4-10	5.1	1.1	1.1	.7	2.1	4.6	13.9	8.1	.0		36.6	
	11-21	.0	.0	.0	.0	.0	1.8	9.2	3.2	.0		14.1	
	22+	.0	.0	.0	.0	.0	.0	.0	2.1	.0		2.1	
	TOT %	5.5	1.1	2.5	.9	4.0	7.9	26.1	14.8	.0	4.9	67.6	
	TOT OBS												142
	TOT PCT	7.0	2.1	4.9	.9	4.6	12.7	40.1	22.0	.0	5.6	100.0	

DECEMBER

PERIOD: (PRIMARY) 1908-1972
(OVER-ALL) 1871-1972

AREA 0014 NORTHEAST JAVA SEA
4.7S 113.7E

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
00Z03	.0	.0	.0	4.8	19.0	14.3	.0	.0	.0	.0	38.1	61.9	21
06Z09	.0	.0	.0	9.5	23.8	9.5	.0	.0	.0	.0	42.9	57.1	21
12Z15	.0	.0	5.0	.0	5.0	5.0	5.0	.0	.0	.0	20.0	80.0	20
18Z21	.0	.0	.0	10.0	5.0	10.0	5.0	.0	.0	.0	30.0	70.0	20
TOT	0	0	1	5	11	8	2	0	0	0	27	55	82
PCT	.0	.0	1.2	6.1	13.4	9.8	2.4	.0	.0	.0	32.9	67.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00Z03	.0	.0	2.6	10.3	23.1	64.1	39
06Z09	.0	.0	2.9	2.9	25.7	68.6	35
12Z15	.0	.0	.0	6.1	18.2	75.8	33
18Z21	.0	.0	.0	7.3	24.4	68.3	41
TOT	0	0	2	10	34	102	148
PCT	.0	.0	1.4	6.8	23.0	68.9	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
00Z03	.0	.0	9.5	28.6	61.9	21
06Z09	.0	.0	10.5	31.6	57.9	19
12Z15	.0	5.3	5.3	15.8	78.9	19
18Z21	.0	.0	10.5	21.1	68.4	19
TOT	0	1	7	19	52	78
PCT	.0	1.3	9.0	24.4	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
85/89	.0	.0	.0	.0	.0	4.1	1.4	1.4	5	6.8
80/84	.0	.0	.0	.0	.0	27.4	49.3	5.5	60	82.2
75/79	.0	.0	.0	.0	.0	.0	5.5	5.5	8	11.0
TOTAL	0	0	0	0	0	23	41	9	73	100.0
PCT	.0	.0	.0	.0	.0	31.5	56.2	12.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	3.4	.0	.0	.0	.0	.0	1.4	.7	.0	1.4
	1.4	.0	2.7	1.7	2.4	10.6	36.0	20.5	.0	6.8
	.0	.0	.0	.0	1.0	.3	6.2	3.4	.0	.0
	4.8	.0	2.7	1.7	3.4	11.0	43.5	24.7	.0	8.2

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00Z03	91	90	86	82	77	75	75	82.2	74
06Z09	88	87	86	82	78	77	77	82.1	50
12Z15	84	83	83	82	80	77	77	81.8	38
18Z21	86	85	84	82	80	76	76	81.6	47
TOT	91	88	86	82	78	75	75	82.0	209

TABLE 16

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	11.1	77.8	11.1	85	18
06Z09	.0	.0	.0	50.0	38.9	11.1	81	18
12Z15	.0	.0	.0	38.9	50.0	11.1	82	18
18Z21	.0	.0	.0	27.3	59.1	13.6	83	22
TOT	0	0	0	24	43	9	83	76

DECEMBER

PERIOD: (PRIMARY) 1906-1972
(OVER-ALL) 1871-1972

AREA 0014 NORTHEAST JAVA SEA
4.7S 113.7E

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
5	.0	.0	.0	.9	1	.0	.9
4	.0	.0	.9	.9	2	.0	1.8
2	.0	.0	4.4	1.8	7	.0	6.1
1	.0	.0	1.8	2.6	5	.0	4.4
0	.0	.9	13.2	.0	16	.0	14.0
-1	.0	.0	9.6	.0	11	.0	9.6
-2	.0	3.5	27.2	.0	35	.0	30.7
-3	.0	6.1	5.3	.9	14	.0	12.3
-4	.0	4.4	6.1	.0	12	.0	10.5
-5	.9	.9	3.5	.0	6	.0	5.3
-6	.0	1.8	.9	.0	3	.0	2.6
-7/-8	.0	.0	.9	.0	1	.0	.9
-11/-13	.9	.0	.0	.0	1	.0	.9
TOTAL	2	20	84	8	114	0	114
PCT	1.8	17.5	73.7	7.0	100.0		100.0

PERIOD: (OVER-ALL) 1962-1972

TABLE 18

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

	N							NE						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	6.7	.0	.0	.0	.0	6.7	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.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	6.7	.0	.0	.0	.0	6.7	.0	.0	.0	.0	.0	.0	.0

	E							SE						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	2.4	.0	.0	.0	.0	.0	2.4	.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	2.4	.0	.0	.0	.0	.0	2.4	.0	.0	.0	.0	.0	.0	.0

PERIOD: (OVER-ALL) 1963-1972

DECEMBER

TABLE 18 (CONT)

AREA 0014 NORTHEAST JAVA SEA
4.7S 113.7E

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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	2.4	2.4	.0	.0	.0	.0	4.9
3-4	.0	1.8	.0	.0	.0	.0	1.8	.0	.6	3.0	.0	.0	.0	3.7
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	1.8	.0	.0	.0	.0	1.8	2.4	3.0	3.7	.0	.0	.0	9.1

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	4.9	.0	.0	.0	.0	4.9	.0	2.4	.0	.0	.0	.0	2.4	
1-2	.0	13.4	2.4	.0	.0	.0	15.9	.0	4.3	.0	.0	.0	.0	4.3	
3-4	.0	2.4	15.2	.0	.0	.0	17.7	.0	2.4	3.7	2.4	.0	.0	8.5	
5-6	.0	.0	11.0	.0	.0	.0	11.0	.0	.0	3.0	.0	.0	.0	3.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	.0	.0	2.4	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	.0	2.4	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	20.7	28.7	.0	.0	.0	49.4	.0	9.1	6.7	4.9	2.4	.0	23.2	92.7

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	7.0	.0	.0	.0	.0	18.6	
1-2	4.7	25.6	2.3	.0	.0	.0	32.6	
3-4	.0	7.0	20.9	2.3	.0	.0	30.2	
5-6	.0	.0	14.0	.0	.0	.0	14.0	
7	.0	.0	.0	2.3	.0	.0	2.3	
8-9	.0	.0	.0	.0	2.3	.0	2.3	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	16.3	39.5	37.2	4.7	2.3	.0	100.0	43

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	4.4	20.5	14.7	4.4	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35	3
6-7	.0	.0	2.9	8.8	8.8	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	6
8-9	.0	.0	.0	1.5	1.5	.0	.0	.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	20.6	.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	1
TOTAL	17	18	12	10	8	3	0	0	0	0	0	0	0	0	0	0	0	0	0	68	3
PCT	25.0	26.5	17.6	14.7	11.8	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

ANNUAL

PERIOD: (PRIMARY) 1908-1973
(OVER-ALL) 1856-1973

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	8.0	.0	1.6	.0	.0	.0	.0	9.7	9.6	8.3	.0	.0	.0	.0	64.0
NE	.6	.0	.8	.0	.0	.0	.0	1.4	.5	.6	.0	.0	.0	.0	97.5
E	.6	.8	.0	.0	.0	.0	.0	1.4	.4	3.4	.2	.0	.1	.0	94.6
SE	2.2	.2	.1	.0	.0	.0	.0	2.5	2.8	1.6	.3	.0	.2	.0	92.7
S	3.4	1.9	.4	.0	.0	.0	.0	5.7	2.0	1.7	.3	.0	1.6	.0	89.3
SW	2.7	3.2	.0	.0	.0	.0	.0	5.9	4.0	.7	.0	.0	.0	.0	89.4
W	5.5	10.4	.2	.0	.0	.0	.0	16.1	1.6	5.2	2.5	.0	.1	.0	75.5
NW	6.9	5.2	.4	.0	.0	.0	.0	12.5	1.6	8.4	.0	.0	*	.0	70.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.1	.0	.0	.0	.0	.0	.0	2.1	.6	4.6	8.3	.0	2.6	.0	56.8
TOT PCT	3.2	1.7	.3	.0	.0	.0	.0	5.2	1.7	3.3	.4	.0	.4	.0	89.2
TOT OBS:	2126														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER 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	3.9	2.5	.2	.0	.0	.0	.0	6.6	2.5	1.1	.3	.0	.3	.0	89.4
06&09	2.9	1.8	.5	.0	.0	.0	.0	5.2	2.9	.4	.5	.0	.1	.0	90.9
12&15	1.8	1.1	.2	.0	.0	.0	.0	3.2	1.0	4.9	.2	.0	1.1	.0	89.8
18&21	3.8	.9	.4	.0	.0	.0	.0	5.1	.5	7.4	.4	.0	.0	.0	87.0
TOT PCT	3.1	1.7	.3	.0	.0	.0	.0	5.1	1.7	3.4	.4	.0	.4	.0	89.2
TOT OBS:	2158														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	2.5	.3	*	.0	.0		3.6	5.9	3.6	4.7	4.1	3.1	1.9	3.4	1.7	4.3
NE	1.0	2.8	.4	*	.0	.0		4.2	6.4	2.7	4.9	3.5	4.3	2.9	6.6	2.8	5.9
E	1.5	11.6	6.6	.1	.0	.0		19.9	7.8	18.1	19.0	18.7	17.8	17.9	23.5	18.9	26.2
SE	1.4	18.9	10.3	.3	.0	.0		30.9	7.7	33.2	33.1	30.2	32.6	32.2	26.8	28.5	27.6
S	.9	4.1	.9	*	.0	.0		6.0	6.9	6.1	6.2	6.1	6.5	7.7	5.6	4.8	4.7
SW	1.1	3.6	.9	*	.0	.0		5.6	6.5	6.0	4.1	8.2	7.9	5.5	7.2	5.6	3.6
W	1.4	8.3	4.7	.3	.0	.0		14.7	8.8	12.8	14.0	15.9	16.9	15.9	14.5	18.6	11.7
NW	1.2	5.8	2.2	.2	*	.0		9.4	7.2	10.0	10.4	10.3	7.5	9.9	9.7	11.9	8.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.6							5.6	.0	7.5	3.5	3.1	3.5	6.2	6.8	7.2	7.0
TOT OBS							5104		8.3	845	911	417	678	699	488	334	732
TOT PCT	14.8	57.7	24.3	1.0	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.2	1.3	.1	*	.0		3.6	5.9	4.3	3.7	2.5	3.5
NE	2.9	1.3	*	.0	.0		4.2	6.4	3.9	4.0	4.4	4.8
E	5.7	13.1	1.0	*	.0		19.9	7.8	18.5	18.3	20.2	23.5
SE	7.0	22.3	1.6	*	.0		30.9	7.7	33.1	31.7	30.0	27.8
S	3.1	2.8	.1	.0	.0		6.0	6.9	6.2	6.3	6.8	4.8
SW	3.2	2.1	.3	.0	.0		5.6	6.5	5.0	7.4	6.2	4.2
W	5.5	7.7	1.5	.1	.0		14.7	8.8	13.5	16.3	15.3	14.5
NW	3.7	5.0	.6	.1	.0		9.4	7.2	10.2	8.9	8.3	9.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.6						5.6	.0	5.4	3.4	6.4	7.0
TOT OBS						5104		8.3	1756	1095	1187	1066
TOT PCT	38.6	55.5	5.3	.2	.0		100.0		100.0	100.0	100.0	100.0

ANNUAL

PERIOD: (PRIMARY) 1908-1973
(OVER-ALL) 1856-1973

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	5.4	9.1	55.8	28.7	.9	.0	.0	8.5	100.0	1756
06&09	3.4	10.0	55.5	29.6	1.5	.0	.0	8.8	100.0	1095
12&15	6.4	10.1	60.0	22.2	1.1	.2	.0	8.0	100.0	1187
18&21	7.0	8.0	61.1	23.2	.6	.0	.0	7.9	100.0	1066
TOT								8.3		5104
PCT	5.6	9.2	57.7	26.3	1.0	*	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.2	.3	1.2	.8		5.2
NE	.2	*	.9	.4		3.6
E	4.6	5.1	7.3	1.0		4.8
SE	10.5	8.7	11.1	1.6		3.8
S	1.4	1.4	2.2	.6		4.7
SW	.4	1.1	2.5	2.5		5.8
W	1.9	3.0	7.6	5.1		4.7
NW	.6	1.9	4.9	3.4		5.0
VAR	.0	.0	.0	.0		.0
CALM	1.7	1.1	1.9	.7		3.0
TOT OBS					1018	4.7
TOT PCT	21.6	22.6	39.7	16.1	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	.1	.1	.5	.1	.0	.0	.0	.0	1.8	
NE	.0	.0	.0	.2	.1	.1	*	.0	.0	.0	1.2	
E	.0	.0	.0	.4	1.6	.6	.7	.1	.0	.1	14.5	
SE	.0	.0	.2	.7	3.1	.8	.5	.1	.0	.0	26.5	
S	.0	.1	.0	.3	.3	.3	.1	.0	.0	.0	4.6	
SW	.0	*	.1	1.0	.7	.6	.1	*	*	.0	3.9	
W	.0	.0	.5	1.3	2.9	.9	.2	.1	.1	.0	11.6	
NW	.0	.1	.2	.7	1.7	.5	.1	.1	.0	.0	7.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.2	.3	.4	.2	.0	.0	.0	4.4	
TOT OBS												1018
TOT PCT	.0	.2	1.0	5.0	11.2	4.3	1.9	.4	.1	.1	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	.1	.2	.2	.2	.2	.2	.2	.2
* OR >5000	.4	.5	.5	.5	.5	.5	.5	.5
* OR >3500	2.0	2.3	2.4	2.4	2.4	2.4	2.4	2.4
* OR >2000	5.8	6.5	6.7	6.7	6.7	6.7	6.7	6.7
* OR >1000	15.0	17.0	17.8	17.8	17.8	17.8	17.8	17.8
* OR >600	18.9	21.8	22.7	22.7	22.7	22.7	22.7	22.7
* OR >300	19.2	22.8	23.7	23.7	23.7	23.7	23.7	23.7
* OR >150	19.3	23.0	23.9	23.9	23.9	23.9	23.9	23.9
* OR > 0	19.3	23.0	23.9	23.9	23.9	23.9	23.9	23.9

TOTAL NUMBER OF OBS: 1030 PCT FREQ NH <5/8: 76.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
6.2	14.9	23.7	18.0	13.0	9.7	5.3	2.8	6.2	.0	1094

ANNUAL

PERIOD: (PRIMARY) 1908-1973
(OVER-ALL) 1856-1973

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.0E

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	.1	
	NO PCP	.0	*	.0	.0	.0	*	.1	.1	.0	.0	.3	
	TOT %	*	*	.0	.0	.0	*	.1	.1	.0	.0	.3	
1/2<1	PCP	*	.0	.0	.0	.0	*	.1	*	.0	.0	.1	
	NO PCP	.0	.0	*	*	.0	.0	.1	.0	.0	.0	.1	
	TOT %	*	.0	*	*	.0	*	.1	*	.0	.0	.2	
1<2	PCP	.1	*	.0	*	*	.0	.2	*	.0	.0	.4	
	NO PCP	.0	.0	.1	.1	.0	.0	.1	*	.0	*	.3	
	TOT %	.1	*	.1	.1	*	.0	.2	*	.0	*	.7	
2<5	PCP	*	.0	.0	.0	*	.2	.4	.3	.0	.0	1.0	
	NO PCP	*	*	*	.1	.1	.1	.2	*	.0	.1	.7	
	TOT %	.1	*	*	.1	.1	.9	.6	.3	.0	.1	1.7	
5<10	PCP	.1	*	.2	.2	.0	.4	.9	.4	.0	.1	2.3	
	NO PCP	.8	.7	2.8	4.7	.7	1.0	2.3	1.7	.0	.8	15.4	
	TOT %	.9	.7	3.0	4.9	.7	1.4	3.2	2.2	.0	.8	17.7	
10+	PCP	*	.0	.2	.2	.2	*	.4	.3	.0	.1	1.4	
	NO PCP	2.2	2.9	15.8	26.6	4.8	4.1	11.5	6.9	.0	3.2	78.0	
	TOT %	2.2	2.9	16.0	26.8	5.0	4.1	11.9	7.2	.0	3.3	79.4	
	TOT OBS												2123
	TOT PCT	3.3	3.7	19.2	31.9	5.8	5.4	16.1	9.9	.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
<1/2	0-3	.0	.1	.0	.0	.0	*	*	.0	.0	.0	.1	
	4-10	*	.1	.2	.3	.0	.1	.2	.1	.0		1.0	
	11-21	*	.0	.2	.1	.0	*	.1	*	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.1	.4	.4	.0	.1	.3	.2	.0	.0	1.5	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	*	*	.0	*	.1	
	4-10	.0	.0	.0	*	.0	*	*	.0	.0		.1	
	11-21	*	.0	*	*	.0	.0	*	*	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.0	*	*	.0	*	.1	*	.0	*	.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	*	.0	.0	*	.1	
	4-10	.1	*	.2	.2	*	.0	.1	.1	.0		.8	
	11-21	.0	*	*	.0	.0	.0	.1	*	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.1	.2	.2	*	.0	.2	.1	.0	*	1.0	
2<5	0-3	.0	.1	.1	.0	.0	*	*	.0	.0	.1	.3	
	4-10	.1	.1	.4	.4	.1	.1	.3	.3	.0		1.8	
	11-21	*	*	*	.1	*	.2	.6	.2	.0		1.1	
	22+	.0	.0	.0	.0	.0	.0	*	.0	.0		*	
	TOT %	.2	.2	.5	.5	.1	.3	1.0	.5	.0	.1	3.2	
5<10	0-3	.2	.2	.2	.2	.1	*	.1	.1	.0	.6	1.8	
	4-10	.4	.3	1.1	1.9	.3	.7	1.6	1.1	.0		7.3	
	11-21	*	*	.7	.9	.1	.3	.7	.5	.0		3.2	
	22+	.0	.0	.0	.0	.0	*	.1	.0	.0		.1	
	TOT %	.7	.5	2.0	3.0	.4	1.0	2.5	1.7	.0	.6	12.4	
10+	0-3	.5	.7	1.0	1.0	.8	9	1.0	.9	.0	4.6	11.5	
	4-10	1.9	2.1	10.0	16.9	3.4	2.5	6.6	4.7	.0		48.2	
	11-21	.2	.2	5.7	9.5	.8	.3	3.2	1.6	.0		21.4	
	22+	*	.0	.1	.1	*	*	.1	.2	.0		.7	
	TOT %	2.6	3.0	16.8	27.5	5.1	3.7	11.0	7.5	.0	4.6	81.7	
	TOT OBS												3577
	TOT PCT	3.6	3.9	20.0	31.6	5.6	5.1	15.0	9.9	.0	5.4	100.0	

ANNUAL

PERIOD: (PRIMARY) 1908-1973
(OVLP-ALL) 1856-1973

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.0E

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
00Z03	.0	.0	1.9	5.6	11.5	6.4	2.5	.0	.0	.0	27.8	72.2	265
06Z09	.0	.0	.7	4.8	16.7	4.6	1.9	.2	.0	.0	28.9	71.1	293
12Z15	.0	.6	.4	2.5	7.2	2.2	1.5	.3	.3	.3	15.4	84.6	257
18Z21	.0	.0	.9	5.2	6.9	3.4	1.6	.8	.0	.0	18.8	81.2	261
TOT													1076
PCT	.0	.2	1.0	4.6	10.7	4.1	1.8	.3	.1	.1	22.9	77.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00Z03	1.6	.2	1.3	3.7	10.6	82.7	1215
06Z09	1.4	.3	.7	2.5	13.0	82.1	757
12Z15	1.1	.3	.7	2.8	12.9	82.2	806
18Z21	1.8	.1	.9	3.5	13.8	80.1	830
TOT							3608
PCT	1.5	.2	.9	3.2	12.4	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	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00Z03	.0	1.9	9.0	19.4	71.7	260
06Z09	.0	.7	6.9	23.8	69.4	277
12Z15	.0	1.1	4.3	11.8	83.9	245
18Z21	.0	1.0	7.1	12.8	80.1	248
TOT						1030
PCT	.0	1.2	7.0	17.0	76.1	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	.1	.4	.1	.0	.0		.6
85/89	.0	.0	.0	.0	1.9	7.0	1.5	.5		10.8
80/84	.0	.0	.0	.1	1.6	36.3	37.2	4.4		99.5
75/79	.0	.0	.0	.0	.1	1.3	4.9	2.8		9.0
TOTAL									1094	100.0
PCT	.0	.0	.0	.2	4.0	44.8	43.5	7.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.1	.2	.1	.0	.1	.1	.0	.0
	.5	.4	4.0	2.5	.3	.4	1.5	.3	.0	.9
	1.2	1.5	13.8	26.2	4.8	5.1	13.1	9.1	.0	4.7
	.6	.1	.5	3.0	.4	.6	2.3	1.4	.0	.2
	2.3	2.0	18.4	31.9	5.6	6.1	16.9	11.0	.0	5.8

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	94	89	86	82	78	76	72	82.2	1740
06Z09	95	90	87	83	79	76	73	82.9	1079
12Z15	92	89	84	82	79	77	75	81.8	1187
18Z21	88	84	83	81	78	76	73	81.2	1064
TOT	95	89	86	82	79	76	72	82.0	5070

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00Z03	.0	.3	2.1	39.5	47.6	10.5	81	264
06Z09	.0	.3	10.5	56.1	27.7	5.4	77	278
12Z15	.0	.0	2.8	45.3	46.4	5.5	80	281
18Z21	.0	.0	.0	38.1	52.9	9.0	82	281
TOT	0	2	47	308	477	80	80	1114

ANNUAL

PERIOD: (PRIMARY) 1908-1973
(OVER-ALL) 1856-1973

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.0E

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	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	.0	*	2	.0	.1
9/10	.0	.0	.0	.1	.1	.3	.0	9	.0	.5
7/8	.0	.0	.0	.1	.1	.3	.0	9	.0	.5
6	.0	.0	.0	.1	.1	.1	.0	5	.0	.3
5	.0	.0	.0	.3	.6	.4	.0	23	.0	1.2
4	.0	.0	.0	1.3	1.7	.1	.0	59	.0	3.1
3	.0	.0	.0	.2	1.0	.0	.0	23	.0	1.2
2	.0	.0	.2	6.6	2.0	*	.0	167	.0	8.7
1	.0	.0	.3	4.9	1.1	*	.0	123	.1	6.3
0	.0	.0	2.0	21.9	1.2	*	.0	482	.1	25.0
-1	.0	.0	1.6	9.7	1.1	.0	.0	242	.1	12.6
-2	.0	.2	4.6	18.0	.4	.0	.0	446	.1	23.0
-3	.0	.0	2.0	3.1	.1	.0	.0	98	.0	5.3
-4	.0	.3	3.8	3.6	*	.0	.0	149	.0	7.7
-5	.1	.4	1.4	.6	.0	.0	.0	46	.0	2.4
-6	.0	.1	.8	.1	.0	.0	.0	19	.0	1.0
-7/-8	.0	.3	.1	.1	.0	.0	.0	12	.0	.6
-9/-10	.0	.1	.0	.0	.0	.0	.0	2	.0	.1
-11/-13	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
TOTAL								1918		
PCT	.1	1.3	17.1	70.7	9.6	1.2	*	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							NE						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.3	.1	.0	.0	.0	1.4	*	.1	.1	.0	.0	.0	.3
3-4	.0	.0	.2	.0	.0	.0	.2	.0	.3	.0	.0	.0	.0	.3
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	1.7	.4	.0	.0	.0	2.1	*	.4	.1	.0	.0	.0	.5

	E							SE						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.2	.0	.0	.0	.0	.4	.2	.8	.0	.0	.0	.0	1.1
1-2	.4	6.3	2.3	.0	.0	.0	9.0	.4	11.6	3.3	.0	.0	.0	15.3
3-4	.0	3.4	5.0	.0	.0	.0	8.4	.0	3.8	6.6	.0	.0	.0	10.5
5-6	.0	.4	3.2	.0	.0	.0	3.6	.0	.8	4.9	.0	.0	.0	5.6
7	.0	.0	.0	.1	.0	.0	.1	.0	.0	.3	.2	.0	.0	.5
8-9	.0	.0	.1	.1	.0	.0	.2	.0	.0	*	*	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.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	10.2	10.6	.2	.0	.0	21.7	.7	17.0	15.2	.2	.0	.0	33.1

PERIOD: (OVER-ALL) 1963-1979

ANNUAL

TABLE 18 (CONT)

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.0E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.5	.6	.0	.0	.0	2.0	1.0	2.4	.0	.0	.0	.0	3.4
3-4	.0	1.0	.6	.0	.0	.0	1.6	.0	.4	1.0	.0	.0	.0	1.4
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.7	1.3	.0	.0	.0	4.1	1.0	2.8	1.0	.0	.0	.0	4.9

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.1	.7	.0	.0	.0	.0	.9	.0	.4	.0	.0	.0	.0	.4	
1-2	.0	7.1	1.8	.0	.0	.0	8.9	.1	3.1	.8	.0	.0	.0	4.1	
3-4	.0	1.7	3.8	.0	.0	.0	5.5	.0	1.7	2.2	.2	.0	.0	4.1	
5-6	.0	.1	2.3	.0	.0	.0	2.4	.0	.1	.8	.0	.0	.0	1.0	
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.2	.0	.0	.4	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.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	
23-2*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.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	9.7	8.0	.0	.0	.0	17.8	.1	5.4	4.1	.4	.2	.0	10.2	94.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.8	3.0	.0	.0	.0	.0	9.8	
1-2	2.0	33.0	9.1	.0	.0	.0	44.1	
3-4	.0	12.3	19.2	.2	.0	.0	31.7	
5-6	.0	1.4	11.2	.0	.0	.0	12.6	
7	.0	.0	.7	.5	.0	.0	1.2	
8-9	.0	.0	.2	.2	.2	.0	.5	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								590
TOT PCT	8.8	49.8	40.4	.8	.2	.0	100.0	

PERIOD: (OVER-ALL) 1952-1970

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	6.0	29.5	21.5	9.3	1.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	628	3
6-7	.3	1.5	5.5	6.2	2.8	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	149	4
8-9	.0	.5	.5	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	4
10-11	.0	.2	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	3
12-13	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	4
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	7.4	2.4	1.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	103	1
TOTAL																				910	3
PCT	13.7	34.1	29.3	16.7	5.4	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1908-1973
(OVER-ALL) 1856-1973

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.0E

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	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.1	10	.2
87/88	.7	1.3	1.1	5.5	2.5	.5	.0	.0	.0	.2	1.0	3.3	63	1.3
85/86	6.6	11.0	14.3	26.5	21.1	6.4	2.0	.5	1.5	4.2	24.2	16.4	536	11.1
83/84	32.8	32.8	36.7	44.1	47.5	34.7	13.4	5.4	10.3	30.8	49.4	46.4	1523	31.4
81/82	51.8	50.3	40.7	18.7	25.9	47.7	59.8	54.8	58.1	57.2	22.1	31.1	2113	43.6
79/80	6.4	4.1	6.7	3.5	2.3	8.2	22.9	35.0	26.0	6.6	2.8	1.6	536	11.1
77/78	1.1	.3	.3	.4	.5	2.1	1.8	3.8	2.1	.7	.3	.0	55	1.1
75/76	.4	.0	.0	.4	.2	.4	.2	.5	.0	.2	.0	.0	10	.2
73/74	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	2	.1
71/72	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
69/70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
67/68	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
65/66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
63/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.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	454	390	371	487	440	438	455	423	389	425	393	182	4848	100.0
MEAN	82.3	82.6	82.8	83.7	83.4	82.1	81.3	80.7	81.1	82.1	83.5	83.4	82.4	

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	1009	1009	194
FEB	1010	1009	1008	1008	1008	1010	1009	1009	1009	203
MAR	1010	1010	1008	1008	1010	1010	1009	1009	1009	195
APR	1010	1010	1008	1009	1009	1009	1009	1010	1009	212
MAY	1009	1010	1009	1009	1009	1010	1009	1010	1009	180
JUN	1011	1009	1009	1009	1010	1010	1010	1009	1010	186
JUL	1011	1010	1010	1008	1010	1009	1010	1010	1010	199
AUG	1012	1010	1010	1009	1010	1010	1010	1010	1010	174
SEP	1012	1010	1010	1009	1011	1010	1010	1010	1010	167
OCT	1011	1010	1009	1009	1009	1010	1009	1010	1010	220
NOV	1011	1010	1009	1008	1009	1010	1009	1010	1009	199
DEC	1010	1009	1008	1008	1009	1010	1009	1010	1009	170
ANN	1011	1010	1009	1008	1009	1010	1009	1010	1009	4299
OBS	306	346	324	240	320	182	283	198		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	1002	1003	1006	1008	1009	1010	1012	1013	1014
FEB	1005	1005	1006	1008	1009	1010	1013	1013	1014
MAR	1004	1004	1006	1008	1009	1011	1012	1013	1014
APR	1005	1005	1006	1008	1009	1010	1014	1014	1015
MAY	1005	1005	1006	1008	1009	1010	1012	1014	1015
JUN	1003	1005	1007	1008	1010	1011	1013	1014	1016
JUL	1005	1005	1007	1009	1010	1011	1012	1014	1016
AUG	1004	1005	1008	1009	1010	1011	1013	1014	1015
SEP	1005	1005	1007	1009	1010	1012	1014	1014	1015
OCT	1005	1005	1007	1008	1009	1011	1013	1015	1016
NOV	1005	1005	1006	1008	1009	1011	1013	1014	1015
DEC	1003	1004	1006	1008	1009	1010	1012	1013	1014

USCOMM-NOAA-ASHEVILLE--140

Volume	Area	Name	Approximate Central Location	
1	1	Southeast Sumatra	04.2°S	101.7°E
	2	Christmas Island	10.5°S	105.6°E
	3	Sunda Strait	06.1°S	105.7°E
	4	Northwest Java Sea	04.0°S	107.5°E
	5	Bangka Island Northwest	00.8°S	105.5°E
	6	Natuna Island	03.5°N	108.0°E
	7	Sarawak	03.8°N	111.8°E
2	8	West Borneo	00.7°N	107.8°E
	9	Karimata Strait	02.7°S	109.2°E
	10	Southwest Java Sea	05.5°S	109.6°E
	11	South Central Java	08.4°S	110.6°E
	12	Southeast Java	09.7°S	115.2°E
	13	Southeast Java Sea	06.3°S	113.1°E
	14	Northeast Java Sea	04.4°S	113.9°E
3	15	Bali Sea	07.8°S	116.5°E
	16	Flores Sea	07.8°S	119.9°E
	17	Northwest Flores Sea	06.0°S	117.5°E
	18	South Makassar Strait	04.2°S	117.8°E
	19	Central Makassar Strait	02.0°S	117.8°E
	20	North Makassar Strait	00.1°S	118.7°E
	21	Southwest Celebes Sea	02.2°N	120.3°E

Volume	Area	Name	Approximate Central Location	
4	22	Northwest Celebes Sea	03.8°N	120.2°E
	23	East Celebes Sea	03.0°N	123.5°E
	24	Northeast Molucca Sea	03.0°N	127.0°E
	25	Southeast Molucca Sea	01.0°S	126.7°E
	26	Northeast Banda Sea	03.5°S	131.0°E
	27	Timor Northwest	07.8°S	124.5°E
	28	North Timor Sea	08.4°S	129.3°E
5	29	Melville Island	11.2°S	130.8°E
	30	West Arafura Sea	09.3°S	133.3°E
	31	East Arafura Sea	09.6°S	136.8°E
	32	West Torres Strait	10.5°S	140.5°E
	33	East Torres Strait	10.8°S	143.8°E
	34	Gulf of Papua Southeast	10.3°S	146.8°E
6	35	Southeast New Guinea	10.7°S	151.5°E
	36	Northwest Solomon Sea	06.9°S	148.7°E
	37	Admiralty Islands East	01.8°S	149.0°E
	38	New Ireland Northeast	02.1°S	152.6°E
	39	North Solomon Sea	05.5°S	153.5°E
	40	Southeast Solomon Sea	08.5°S	154.5°E