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LEVEL III

AD A097707

SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (SSMO),

CENTRAL AMERICAN COASTAL MARINE AREAS, WEST COAST.

VOLUME 2.

AREA 6 - MANZANILLO SE,
AREA 7 - ACAPULCO SOUTH,
AREA 8 - GULF OF TEHUANTEPEC,
AREA 9 - GUATEMALA SW COAST,
AREA 10 - NICARAGUA SW COAST,
AREA 11 - PUNTA BURICA.

Vol 1
A097429
12 4837

DTIC ELECTE APR 1 3 1981 S D A

PREPARED BY
NAVAL OCEANOGRAPHY COMMAND DETACHMENT,
ASHEVILLE, N.C.

PREPARED FOR
COMMANDER, NAVAL OCEANOGRAPHY COMMAND
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FEBRUARY 1981

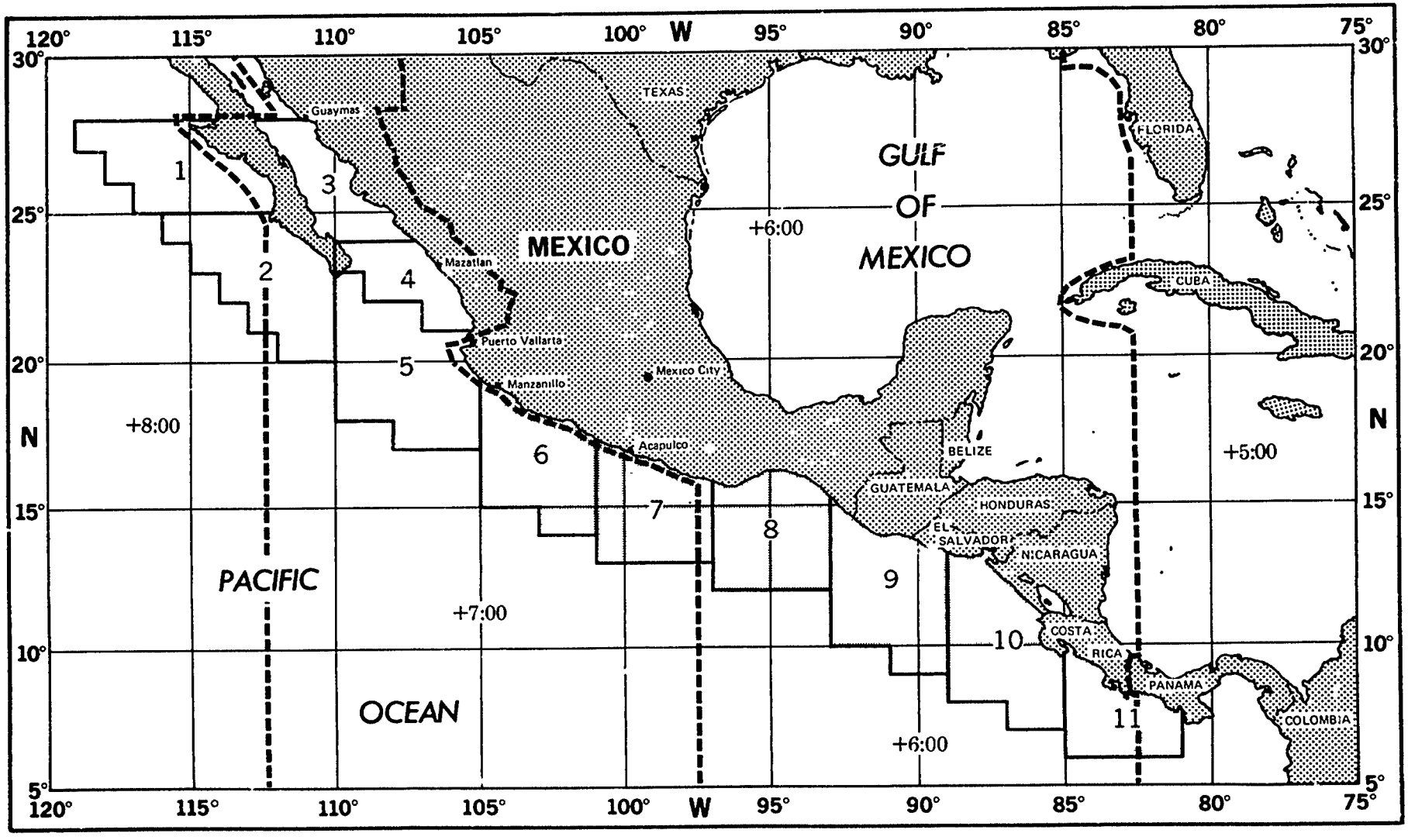
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CENTRAL AMERICA COASTAL SSMO AREAS AND STANDARD TIME ZONES - WEST COAST

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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SECURITY CLASSIFICATION OF THIS PAGE *(When Data Entered)*

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER	2. GOVT ACCESSION NO. AD-A097 707	3. RECIPIENT'S CATALOG NUMBER
4. TITLE *(and Subtitle)* Summary of Synoptic Meteorological Observations (SSMO) Central American Coastal Marine Areas West Coast . Volume 2		5. TYPE OF REPORT & PERIOD COVERED Reference publication
		6. PERFORMING ORG. REPORT NUMBER
7. AUTHOR(s) N/A		8. CONTRACT OR GRANT NUMBER(s)
9. PERFORMING ORGANIZATION NAME AND ADDRESS Naval Oceanography Command Detachment Federal Building Asheville, NC 28801		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
11. CONTROLLING OFFICE NAME AND ADDRESS Commander, Naval Oceanography Command NSTL Station Bay St Louis, MS 39529		12. REPORT DATE February 1981
		13. NUMBER OF PAGES 474
14. MONITORING AGENCY NAME & ADDRESS*(if different from Controlling Office)*		15. SECURITY CLASS. *(of this report)*
		15a. DECLASSIFICATION/DOWNGRADING SCHEDULE

16. DISTRIBUTION STATEMENT *(of this Report)*

Approved for public release; distribution unlimited.

17. DISTRIBUTION STATEMENT *(of the abstract entered in Block 20, if different from Report)*

18. SUPPLEMENTARY NOTES

19. KEY WORDS *(Continue on reverse side if necessary and identify by block number)*

Marine climatology, Coastal Marine Summary Tables, Central American Coastal Marine Areas, Manzanillo SE, Acapulco South, Gulf of Tehuantepec, Guatemala SW Coast, Nicaragua SW Coast, and Punta Burica

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

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

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S/N 0102-LF-014-6601

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SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (SSMO)

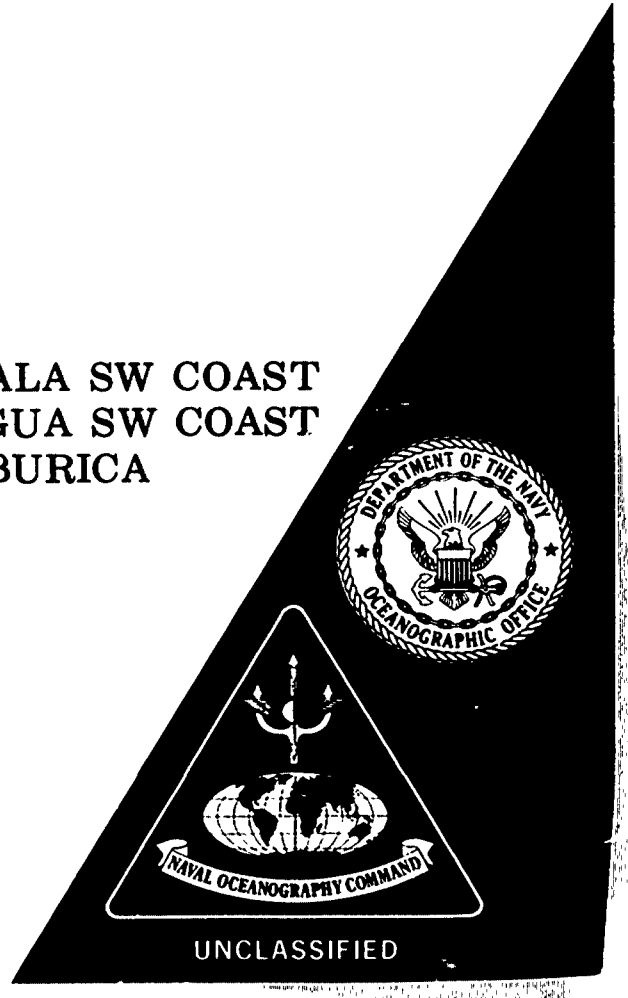
CENTRAL AMERICAN COASTAL MARINE AREAS WEST COAST

VOLUME 2

AREA 6 - MANZANILLO SE
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SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (MONTHLY AND ANNUAL)

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

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

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

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

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

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

THE TABLES

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Air-Sea Temperature Difference is:

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

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

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

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

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

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

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

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DIRECTION AND WEATHER CODES

CONVERSION OF WIND AND WAVE DIRECTION TO 8 POINTS

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

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



Fig 1. The 8 point direction system.

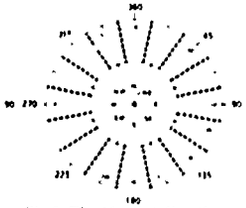


Fig 2. The 16 point direction system superimposed on the 8 point system.

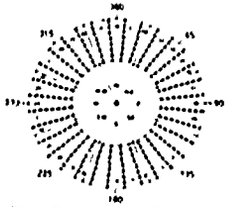


Fig 3. The 32 point direction system superimposed on the 8 point system.

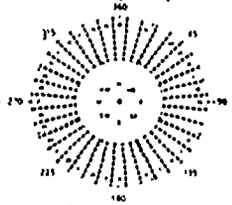


Fig 4. The 36 point direction system superimposed on the 8 point system.

VISIBILITY (VV)

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

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

PRESENT WEATHER (1960 WMO CODE 4677)

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

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

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

WAVE HEIGHT (from source decks 128 and 116)

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

Indeterminate=INDET

JANUARY

PERIOD: (PRIMARY) 1953-1979 — AREA 0006 MANZANILLO SE
(OVER-ALL) 1861-1979 — 17.6N 102.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	1.2	.2	.3	.0	.0	.0	.0	1.6	.5	.2	.1	.0	.6		.0	96.6
NE	2.5	.4	.9	.0	.0	.0	.0	3.8	1.0	.7	.0	.0	.6		.0	94.2
E	1.1	.5	.6	.0	.0	.0	.0	2.1	1.5	.7	.1	.0	.7		.2	94.6
SE	1.0	.3	.0	.0	.0	.0	.0	1.3	.7	.0	.4	.0	.6		.0	97.0
S	1.1	.0	.4	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.8		.0	98.1
SW	.6	.0	.0	.0	.0	.0	.0	.6	.6	.3	.0	.0	1.0		.0	97.4
W	.5	.0	.0	.0	.0	.0	.0	.5	*	.2	.1	.0	.5		.0	98.8
NW	.3	*	.2	.0	.0	.0	.0	.5	.2	.3	.2	.0	.6		.1	98.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.1	.0	.0	.0	.0	.0	.0	.1	.1	.6	.1	.0	1.6		.0	97.3
TOT PCT	.7	.1	.2	.0	.0	.0	.0	1.0	.4	.2	.1	.0	.6		*	97.4
TOT OBS:	7537															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER 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
0003	.6	.1	.3	.0	.0	.0	.0	.9	.3	.1	.0	.0	.7		.0	98.0
0609	.7	.1	.2	.0	.0	.0	.0	1.0	.4	.4	.2	.0	1.0		.0	96.9
1215	.9	.2	.1	.0	.0	.0	.0	1.2	.4	.7	.3	.0	.7		.0	96.6
1821	.6	.1	.2	.0	.0	.0	*	.9	.4	*	*	.0	.7		.1	97.7
TOT PCT	.7	.1	.2	.0	.0	.0	*	1.0	.4	.3	.1	.0	.9		*	97.4
TOT OBS:	7826															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	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	8.3	1.8	.1	.0	.0		13.3	6.8	7.4	9.5	13.1	7.6	14.0	17.2	15.0	11.1
NE	1.3	4.1	.7	*	.0	.0		6.1	6.5	2.5	1.7	5.9	3.8	9.2	7.3	8.9	4.8
E	1.6	4.6	.9	.1	*	.0		6.6	6.8	3.6	3.0	6.1	3.1	6.3	10.1	11.6	13.2
SE	.9	2.6	.5	.1	.0	.0		4.4	6.7	3.5	1.3	2.9	4.9	3.7	3.0	7.1	7.3
S	.9	2.0	.1	.0	.0	.0		3.0	5.2	4.7	3.1	2.4	6.2	1.4	1.3	3.5	3.6
SW	1.2	3.0	.2	*	.0	.0		4.4	5.3	10.2	5.9	3.1	7.4	1.5	1.9	2.7	4.3
W	3.2	14.4	3.3	.1	*	.0		21.0	7.3	35.2	29.4	22.5	32.1	13.7	14.9	12.7	20.7
NW	3.7	18.7	5.5	.2	*	.0		28.1	7.9	25.6	31.4	34.5	24.3	26.7	33.7	23.6	24.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	13.1							13.1	.0	7.3	15.6	13.6	6.7	17.5	10.3	14.6	8.8
TOT OBS	2372	4691	1053	52	4	0	8172		6.2	1864	160	1034	105	1783	232	2077	117
TOT PCT	29.0	57.4	12.9	.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	7.8	5.2	.3	*	.0		13.3	6.8	7.6	12.9	17.9	14.8
NE	3.8	2.2	.1	.0	.0		6.1	6.5	2.9	5.8	9.0	8.9
E	4.0	2.3	.3	*	.0		6.6	6.8	3.5	4.8	6.7	11.7
SE	2.6	1.6	.1	*	.0		4.4	6.7	3.3	3.0	3.6	7.1
S	2.2	.8	*	.0	.0		3.0	5.2	4.5	2.6	1.4	3.5
SW	3.3	1.0	*	*	.0		4.4	5.3	9.8	3.4	1.5	2.8
W	11.1	9.3	.6	.1	.0		21.0	7.3	34.7	23.0	13.8	13.1
NW	13.2	13.6	1.1	.1	.0		28.1	7.9	26.8	34.1	24.3	23.6
VAR	.0	--	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	13.1						13.1	.0	8.8	13.3	16.7	14.4
TOT OBS	4687	2951	204	15	0	8172		6.2	2024	1939	2315	2194
TOT PCT	41.1	36.1	2.6	.2	.0		100.0		100.0	100.0	100.0	100.0

JANUARY

PERIOD: (PRIMARY, 1953-1976
(COVER-ALL) 1961-1979

AREA CODE MANZANILLO SP
19.0N 102.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	6.0	13.5	60.4	19.6	.9	.1	.0	7.1	100.0	2024
06009	11.2	12.3	57.7	15.9	.8	.1	.0	6.7	100.0	1939
12015	16.7	16.6	56.4	9.9	.4	.0	.1	5.6	100.0	2015
18021	14.4	20.6	55.2	9.3	.5	*	.0	5.4	100.0	2194
TOT	1072	1300	4691	1053	52	4	0	6.2		8172
PCT	13.1	15.9	57.4	12.9	.6	*	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL SKY COVER AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCN	TOTAL OBS	MEAN SKY COVER
N	7.5	2.7	2.5	.7		2.6
NE	3.0	1.3	1.7	.6		3.1
E	2.8	1.5	1.5	.4		3.2
SE	2.1	1.1	1.0	.3		3.1
S	1.5	.4	.6	.1		3.0
SW	2.2	1.0	.8	.2		2.9
W	12.4	4.7	3.0	.7		2.3
NW	17.3	5.0	4.2	1.5		2.3
VAR	.0	.0	.0	.0		.0
CALM	8.0	2.5	2.1	.4		2.3
TOT OBS	3542	1284	1065	309	6201	2.6
TOT PCT	57.1	20.7	17.2	5.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,HM 24/81) AND OCCURRENCE OF HM CS/A BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 2999	3000 3999	4000 4999	5000 5999	6000 7999	8000+	HM CS/A ANY HGT	TOTAL OBS
N	*	.0	.1	.3	.5	.2	.2	.1	.1	*	11.9		
NE	*	.0	*	.1	.2	.2	.1	*	*	*	5.4		
E	*	*	*	.1	.4	.2	.1	.1	*	.0	6.4		
SE	*	*	*	.1	.2	.2	.1	*	.0	.0	3.8		
S	.0	*	*	*	.2	.1	*	*	*	.0	2.5		
SW	.0	.0	.0	.1	.1	.1	.1	*	.0	*	3.9		
W	*	*	.1	.3	.5	.3	.2	.0	*	.1	10.4		
NW	*	*	*	.3	1.0	.7	.4	.2	.1	.1	25.0		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	*	*	.1	.1	.4	.3	.1	.0	*	.1	11.9		
TOT OBS	7	5	22	95	235	144	83	28	16	20	5543	6201	
TOT PCT	.1	.1	.4	1.5	3.8	2.3	1.3	.5	.3	.3	89.4	100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (HM 24/81) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) ≥ 0R ≥10	≥ 0R ≥5	≥ 0R ≥2	≥ 0R ≥1	≥ 0R ≥1/2	≥ 0R ≥1/4	≥ 0R ≥5070	≥ 0R >0
≥ 0R ≥6500	.6	.6	.6	.6	.6	.6	.6	.6
≥ 0R ≥5000	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 0R ≥3500	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4
≥ 0R ≥2000	4.6	4.7	4.7	4.7	4.7	4.7	4.7	4.7
≥ 0R ≥1000	8.2	8.5	8.6	8.6	8.6	8.6	8.6	8.6
≥ 0R ≥600	9.5	10.0	10.1	10.1	10.1	10.1	10.1	10.1
≥ 0R ≥300	9.7	10.3	10.4	10.5	10.5	10.5	10.5	10.5
≥ 0R ≥150	9.8	10.4	10.5	10.5	10.5	10.5	10.5	10.5
≥ 0R > 0	9.8	10.4	10.6	10.6	10.6	10.6	10.6	10.7
TOTAL	632	671	679	684	684	684	684	685

TOTAL NUMBER OF OBS: 6431 PCT FREQ HM CS/A: 96.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
31.7	24.0	15.7	11.2	6.4	3.6	2.4	2.3	2.	.1	6750

JANUARY

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1861-1979

AREA 0006 MANZANILLO SE
17.6N 102.9W

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	*	.0	.0	.0	.0	.0	*	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	*	.0	.0	.0	.0	.0	*	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
1<2	PCP	*	*	*	*	.0	.0	.0	*	.0	.0	.1	
	NO PCP	.0	.1	.0	*	.0	.0	*	*	.0	.0	*	
	TOT %	*	*	*	*	.0	.0	*	*	.0	.0	.1	
2<5	PCP	*	*	*	*	.0	.0	.0	*	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	*	*	.0	*	.1	
	TOT %	*	*	*	*	.0	.0	*	.1	.0	*	.2	
5<10	PCP	.1	.1	.1	*	*	*	*	*	.0	.0	.3	
	NO PCP	.4	.2	.3	.2	.1	.1	.6	.9	.0	.4	3.2	
	TOT %	.5	.2	.3	.2	.1	.2	.6	1.0	.0	.4	3.6	
10+	PCP	.1	.1	.1	*	*	*	*	*	.0	*	.4	
	NO PCP	12.7	5.8	6.4	4.3	2.8	4.1	20.4	27.1	.0	12.2	95.7	
	TOT %	12.8	5.9	6.4	4.3	2.8	4.1	20.4	27.1	.0	12.2	96.1	
	TOT OBS												7517
	TOT PCT	13.3	6.2	6.8	4.5	3.0	4.3	21.1	28.2	.0	12.7	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	*	
	4-10	*	.0	.0	.0	.0	.0	*	*	.0		.1	
	11-21	*	*	.0	.0	.0	.0	.0	*	.0		*	
	22+	*	.0	.0	.0	.0	.0	.0	.0	.0		*	
	TOT %	*	*	.0	.0			*	.1	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	*		.0	.0	.0	.0		*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
1<2	0-3	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	4-10	*	*	.0	*	*	.0	*	*	.0		.1	
	11-21	.0	.0	*	*	.0	.0	*	*	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	*	*	*	.0	*	*	.0	.0	.2	
2<5	0-3	.0	.0	.0	.0	.0	.0	*	*	.0	*	.1	
	4-10	*	*	.0	*	.0	.0	*	.1	.0		.1	
	11-21	*	*	*	*	.0	.0	.0	*	.0		.1	
	22+	*	.0	.0	.0	.0	.0	*	*	.0		*	
	TOT %	*	*	*	*	.0	.0	*	.1	.0	*	.3	
5<10	0-3	.1	*	.1	.1	*	*	.1	.2	.0	.4	.9	
	4-10	.3	.1	.1	.1	.1	.1	.4	.6	.0		1.7	
	11-21	.1	.1	.1	*	*	*	.2	.1	.0		.7	
	22+	*	*	*	*	.0	*	*	.1	.0		.2	
	TOT %	.5	.2	.3	.2	.1	.1	.6	.9	.0	.4	3.5	
10+	0-3	3.1	1.2	1.6	.9	.8	1.2	3.0	3.3	.3	12.6	27.7	
	4-10	7.8	4.0	4.0	2.8	1.9	2.9	14.0	18.0	.0		55.5	
	11-21	1.7	.5	.7	.4	.1	.1	3.2	5.4	.0		12.2	
	22+	.1	*	*	*	.0	.0	.1	.2	.0		.5	
	TOT %	12.6	5.8	6.3	4.2	2.8	4.2	20.3	26.9	.0	12.6	95.9	
	TOT OBS												7896
	TOT PCT	13.2	6.1	6.7	4.4	3.0	4.4	21.1	28.1	.0	13.1	100.0	

JANUARY

PERIOD: (PRIMARY) 1953-1974
(OVER-ALL) 1861-1979

AREA 0006 MANZANILLO SE
19.4N 102.9W

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	WH <5/8 ANY HGT	TOTAL OBS
00E03	.1	.1	.3	1.4	3.9	2.6	1.5	.5	.2	.3	11.0	89.0	1661
06E09	.1	.0	.3	1.8	3.1	1.7	1.2	.6	.3	.6	9.6	90.4	1629
12E15	.1	.2	.6	1.4	4.4	2.2	1.3	.3	.5	.3	11.2	88.8	1584
18E21	.1	.0	.2	1.3	3.5	2.4	1.2	.3	.2	.1	9.4	90.6	1614
TOT	7	5	22	98	249	149	96	28	20	21	647	6001	6488
PCT	.1	.1	.3	1.5	3.7	2.2	1.3	.4	.3	.3	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	.1	.0	.2	.3	2.8	96.7	1969
06E09	.1	.0	.2	.5	3.8	95.5	1975
12E15	.2	*	.3	.3	4.3	94.8	2024
18E21	.1	.0	*	.1	3.5	96.3	2224
TOT	10	1	15	22	295	7849	8192
PCT	.1	*	.2	.3	3.6	95.8	100.0

TABLE 12

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

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND5+	WH <5/8 AND 5+	TOTAL OBS
00E03	.1	.5	2.0	9.4	88.6	1601
06E09	.1	.4	2.5	7.4	90.0	1573
12E15	.1	.9	2.6	9.1	88.3	1526
18E21	.1	.3	1.7	8.2	90.1	1731
TOT	7	34	141	548	5742	6431
PCT	.1	.5	2.2	8.5	89.3	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
95/99	.0	.0	.0	.0	*	.0	.0	.0	1	*
90/94	.0	.0	*	.1	.3	*	.1	*	35	.6
85/89	.0	*	*	.4	1.8	1.5	.3	.1	261	4.1
80/84	.0	.0	.1	1.4	9.9	21.3	8.2	1.6	2674	42.5
75/79	.0	.0	*	.8	4.4	20.4	17.5	4.5	2987	47.5
70/74	.0	.0	.0	*	.5	1.2	2.1	1.3	326	5.2
65/69	.0	.0	.0	.0	.0	*	*	*	8	.1
TOTAL	0	1	13	170	1058	2801	1774	475	6292	100.0
PCT	.0	*	.2	2.7	16.8	44.5	28.2	7.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	*	.0	.0	.0	.0	.0	.0	*	.0	.0
	.1	.0	*	*	*	*	.2	.1	.0	.1
	.5	.3	.4	.2	.1	.1	.9	1.0	.0	.5
	4.6	2.5	3.0	2.3	1.6	2.5	9.7	11.2	.0	5.1
	7.0	3.0	2.9	1.7	1.0	1.5	9.3	14.5	.0	6.6
	1.2	.5	.4	.1	*	.1	.7	1.6	.0	.5
	*	*	*	.0	.0	.0	.0	.1	.0	.0
	13.5	6.3	6.7	4.4	2.8	4.2	20.8	28.5	.0	12.8

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	95	89	85	80	76	73	68	80.5	2035
06E09	90	84	82	78	74	70	68	79.3	2000
12E15	90	83	81	78	73	70	64	77.4	2091
18E21	93	89	86	81	75	72	64	80.8	2256
TOT	95	88	84	79	74	71	64	79.3	8382

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	3.4	23.6	48.2	20.4	4.4	75	1604
06E09	.0	1.5	9.5	42.8	36.6	9.7	79	1636
12E15	.0	1.3	6.9	41.8	37.7	12.3	80	1588
18E21	.0	5.3	26.8	44.9	19.1	4.0	74	1719
TOT	0	169	1104	2909	1852	493	77	6547

JANUARY

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1861-1979

AREA 0006 MANZANILLO SE
17.6N 102.9W

TABLE 17

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

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	% FOG	NO FOG
14/16	.0	.0	.0	.0	.0	*	*	*	*	5	.0	.1
11/13	.0	.0	.0	.0	*	.1	.	*	*	18	.0	.2
9/10	.0	.0	.0	.0	*	*	.	.1	.0	22	.0	.3
7/8	.0	.0	.0	.0	.2	.3	.3	.2	.0	65	.0	.9
6	.0	.0	.0	*	.1	.3	.3	.1	.0	61	.0	.9
5	.0	.0	*	*	.3	.6	.4	.1	.0	97	.0	1.4
4	.0	.0	*	.1	.5	1.2	.5	*	.0	163	.0	2.
3	.0	.0	*	.1	.6	.8	.5	*	.0	153	.0	2.2
2	.0	.0	*	.3	1.3	2.7	.5	*	.0	342	*	4.8
1	.0	.0	.0	.3	1.7	3.3	.6	.0	.0	426	.0	6.0
0	.0	.0	.1	.7	4.6	6.3	.2	.0	.0	845	*	11.8
-1	.0	.0	*	1.1	5.0	4.8	.1	.0	.0	750	*	11.1
-2	.0	.0	.1	1.4	9.4	4.2	.1	.0	.0	1079	*	15.2
-3	.0	.0	.1	1.7	8.3	2.5	*	.0	.0	863	*	12.1
-4	*	.0	.1	2.	8.0	1.2	*	*	.0	861	.0	12.1
-5	.0	.1	.1	2.0	5.4	.5	*	.0	.0	577	.0	8.1
-6	.0	.0	.1	1.9	2.3	.1	.0	.0	.0	335	*	4.4
-7/-8	.0	*	.1	2.0	2.0	.1	.0	.0	.0	309	*	4.3
-9/-10	.0	.0	.1	.	.2	*	.0	.0	.0	79	.0	1.1
-11/-13	*	*	.1	.2	.1	*	.0	.0	.0	38	.0	.5
-14/-16	.0	.1	*	.6	.0	.0	.0	.0	.0	8	.0	.1
-17/-19	.0	.0	*	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	2		104	543			269		4		9	7106
		14		1053		2063		43		7115		
PCT	*	.2	1.5	14.8	58.1	29.0	3.8	.6	.1	100.0	.1	99.9

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	2.0	.0	.0	.0	.0	3.3
1-2	1.1	5.1	.8	.0	.0	.0	6.9
3-4	.1	1.1	1.0	.0	.0	.0	2.1
5-6	.1	.3	.3	.1	.0	.0	.7
7	.0	.1	.0	.1	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.5	8.6	2.0	.1	.0	.0	13.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	1.4	.1	.0	.0	.0	2.3
1-2	.5	2.5	.3	.0	.0	.0	3.2
3-4	.0	.7	.3	.0	.0	.0	1.0
5-6	.0	.1	.1	.1	.0	.0	.3
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	4.6	.5	.1	.0	.0	6.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	1.4	.0	.0	.0	.0	2.4
1-2	.7	2.4	.2	.0	.0	.0	3.2
3-4	.0	.9	.2	.0	.0	.0	1.1
5-6	.1	.1	.1	.2	.0	.0	.4
7	.0	.0	.2	.1	.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	.1	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.8	4.7	.7	.2	.1	.0	7.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.4	.0	.0	.0	.0	1.9
1-2	.3	1.2	.2	.0	.0	.0	1.7
3-4	.0	.4	.3	.0	.0	.0	.7
5-6	.0	.1	*	*	.0	.0	.1
7	.0	.0	.1	.1	.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	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	3.0	.5	.2	.0	.0	4.6

PERIOD: (OVER-ALL) 1963-1979 JANUARY AREA 0006 MANZANILLO SE

TABLE 18 (CONT) 17.6N 102.9W

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.4	.0	.0	.0	.0	1.0
1-2	.1	1.4	.0	.0	.0	.0	1.4
3-4	.0	.3	.0	.0	.0	.0	.3
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	2.1	.1	.0	.0	.0	2.8

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	3.2	.1	.0	.0	.0	4.5
1-2	1.1	7.1	1.4	.0	.0	.0	9.6
3-4	.2	2.7	.9	.0	.0	.0	3.8
5-6	.0	.3	.3	.0	.0	.0	.5
7	.0	.1	.0	.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	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.5	13.5	2.7	.0	.0	.0	18.8

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.7	4.2	*	.0	.0	.0	5.9
1-2	1.4	11.4	1.7	.0	.0	.0	14.5
3-4	.2	4.0	3.1	.1	.0	.0	7.4
5-6	.0	.3	.7	.0	.0	.0	1.0
7	.0	.1	.0	.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	3.3	20.0	5.6	.2	.0	.0	29.1

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	.8	.0	.0	.0	.0	1.7
1-2	.4	1.5	.2	.0	.0	.0	2.0
3-4	.0	.3	.0	.0	.0	.0	.3
5-6	.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	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.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	2.7	.3	.0	.0	.0	4.1

HGT	TOTAL PCT
<1	37.1
1-2	42.4
3-4	16.2
5-6	3.1
7	.9
8-9	.1
10-11	.0
12	.0
13-16	.1
17-19	.1
20-22	.0
23-25	.0
26-32	.0
33-40	.0
41-48	.0
49-60	.0
61-70	.0
71-86	.0
87+	.0
TOT PCT	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	22.3	14.4	.2	.0	.0	.0	37.1	
1-2	6.5	31.5	4.4	.0	.0	.0	42.4	
3-4	.5	9.9	5.6	.1	.0	.0	16.2	
5-6	.1	1.0	1.6	.3	.0	.0	3.1	
7	.0	.3	.3	.2	.0	.0	.9	
8-9	.0	.0	.1	.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	.1	.0	.1	.0	.1	
17-19	.0	.0	.0	.1	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-46	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.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	57.6	12.2	.8	.1	.0	100.0	1529

PERIOD: (OVER-ALL) 1949-1979 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	10.	25.5	15.4	3.9	.8	.3	.1	.0	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	3067	2
6-7	..	2.7	6.5	5.5	1.1	.3	.1	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	787	4
8-9	.1	1.1	1.8	1.3	.7	.2	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	286	4
10-11	.0	1.4	.9	.4	.1	.1	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	153	3
12-13	.0	.0	.9	.3	.2	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	81	4
>13	.0	.6	.0	.3	.1	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	6
INDET	13.3	2.4	1.8	.8	.1	*	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1001	1
TOTAL	1315	1791	1468	563	167	58	16	5	10	6	1	0	0	0	0	0	0	0	0	5400	2
PCT	24.4	33.2	27.2	10.4	3.1	1.1	.3	.1	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1863-1979

AREA 0006 MANZANILLO SE
17.6N 102.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
N	.2	.2	.2	.0	.0	.0	.0	.6	.3	.1	.0	.0	.5		.0	98.5
NE	1.2	.5	.3	.0	.0	.0	.0	2.0	.7	.9	.4	.0	1.6		.0	94.3
E	.3	.5	.0	.0	.0	.0	.0	.9	.3	.0	.0	.0	1.9		.0	97.0
SE	.7	.0	.5	.0	.0	.0	.0	1.2	1.0	.7	.3	.0	1.6		.0	95.4
S	.0	.2	.2	.0	.0	.0	.0	.5	1.0	.0	.0	.0	1.4		.0	97.1
SW	.3	.4	.1	.0	.0	.0	.0	.8	.4	.0	.1	.0	1.4		.0	96.8
W	*	.1	.1	.0	.0	.0	.0	.1	.1	.1	.1	.0	.5		*	99.1
NW	.2	*	.1	.0	.0	.0	.0	.3	.3	.1	.1	.0	.6		*	98.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.1	.1	.0	.0	.0	.0	.0	.2	.0	.1	.0	.0	1.5		.0	98.2
TOT PCT	.2	.1	.1	.0	.0	.0	.0	.5	.3	.1	.1	.0	.9		*	98.1
TOT OBS:	7428															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
00E03	.1	.2	.1	.0	.0	.0	.0	.4	.2	.0	.0	.0	.9		.0	98.5
06E09	.2	.1	.1	.0	.0	.0	.0	.3	.2	.2	.0	.0	.4		.1	98.8
12E15	.3	.2	.2	.0	.0	.0	.0	.7	.3	.4	.3	.0	1.1		.0	97.3
18E21	.2	.1	.1	.0	.0	.0	.0	.4	.4	.0	.2	.0	1.1		.0	97.9
TOT PCT	.2	.1	.1	.0	.0	.0	.0	.5	.3	.1	.1	.0	.9		*	98.1
TOT OBS:	7716															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	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	7.7	1.4	.1	.0	.0		11.5	6.9	6.2	5.9	11.3	6.9	14.9	16.5	13.6	13.9
NE	1.0	3.2	.3	*	.0	.0		4.5	5.9	2.2	1.1	2.6	2.4	6.9	6.8	6.2	5.8
E	1.3	2.6	.3	.0	.0	.0		4.3	5.8	1.6	1.8	3.0	1.1	5.2	5.2	7.3	5.3
SE	.8	2.9	.4	*	.0	.0		4.0	6.4	3.1	3.2	2.5	1.6	3.6	3.9	6.8	6.0
S	.8	1.9	.2	.0	.0	.0		2.8	5.6	4.7	1.1	1.7	4.3	1.4	2.3	3.3	2.9
SW	1.3	3.0	.3	.0	.0	.0		4.6	5.7	9.4	6.6	3.0	6.1	1.4	2.0	4.0	5.5
W	3.4	16.6	5.3	.1	.0	.0		25.8	8.0	40.4	36.9	26.4	34.8	17.4	17.0	14.7	20.4
NW	3.4	19.6	7.2	.2	*	.0		30.5	8.5	26.2	34.4	36.9	36.4	32.9	36.3	25.8	29.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	11.9							11.9	.0	6.0	9.2	12.3	6.4	15.9	10.0	14.2	10.6
TOT OBS	2074	4584	1229	30	1	0	7918		6.6	1862	141	1742	94	1744	220	2007	113
TOT PCT	26.2	57.9	15.5	.4	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	6.5	4.7	.3	.0	.0		11.5	6.9	6.1	11.0	15.1	13.6
NE	3.0	1.6	*	.0	.0		4.5	5.9	2.2	2.8	6.9	6.2
E	2.9	1.4	*	.0	.0		4.3	5.8	1.6	2.9	5.2	7.2
SE	2.4	1.6	*	.0	.0			6.4	3.1	2.5	3.5	6.8
S	2.0	.8	*	.0	.0		2.8	5.6	4.5	1.8	1.5	3.3
SW	3.1	1.4	*	.0	.0		4.6	5.7	9.3	3.2	1.5	4.1
W	11.3	13.4	1.1	.0	.0		25.8	8.0	40.1	26.9	17.7	18.4
NW	12.3	16.7	1.5	*	.0		30.5	8.5	26.8	36.9	33.3	26.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	11.9						11.9	.0	6.2	12.0	15.3	14.0
TOT OBS	4384	3293	238	3	0	7918		6.6	2003	1836	1964	2115
TOT PCT	55.4	41.6	3.0	*	.0		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1963-1979

AREA 0006 MANZANILLO SE
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00103	6.2	11.9	60.1	21.3	.5	.0	.0	7.7	100.0	2003
06109	12.0	11.2	56.4	19.7	.7	.1	.0	7.3	100.0	1836
12115	15.3	13.2	60.6	10.8	.1	.0	.0	5.9	100.0	1964
18121	14.0	20.2	59.7	10.8	.3	.0	.0	5.6	100.0	2115
TOT	942	1132	4584	1229	30	1	0	6.6		7918
PCT	11.9	14.3	57.9	15.5	.4	*	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	8.0	1.7	1.6	.4		2.0
NE	2.5	.8	.8	.1		2.4
E	2.4	1.0	.7	.2		2.5
SE	2	1.0	.7	.1		2.6
S		.6	.5	.1		2.5
SW	.	.4	.6	.1		2.1
W	1	4.4	3.4	.5		2.0
NW	2'	5.3	3.8	1.0		2.0
VAR	.	.0	.0	.0		.0
CALM	8.2	2.2	1.2	.4		1.9
TOT OBS	3967	1781	799	186	6053	2.1
TOT PCT	65.9	17.9	13.2	3.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,HH >H/A) AND OCCURRENCE OF HH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	HH <5/8 ANY HGT	TOTAL OBS
N	*	.0	*	.2	.4	.3	.1	.0	*	*	10.5	
NE	.0	.0	.0	.2	.2	.1	.1	*	*	*	3.8	
E	.0	*	*	.1	.2	*	.1	.0	.0	*	3.9	
SE	.0	.0	*	.1	.2	.1	*	*	.0	*	3.6	
S	.0	.0	.0	.1	.1	.1	*	*	.0	*	2.3	
SW	.0	.0	.0	*	.1	.1	*	.0	.0	*	4.0	
W	.1	.0	.0	.3	.5	.4	.3	.1	.1	*	24.3	
NW	*	.0	*	.2	1.1	.5	.3	.1	*	*	27.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	.5	.2	*	*	*	*	11.3	
TOT OBS	7	1	6	84	195	108	61	18	12	18	5543	6053
TOT PCT	.1	*	.1	1.4	3.2	1.8	1.0	.3	.2	.3	91.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HGT (FT) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >5OYD	= OR >0
= OR >65OO	.6	.6	.6	.6	.6	.6	.6	.6
= OR >5000	.8	.9	.9	.9	.9	.9	.9	.9
= OR >3500	1.7	1.9	1.9	1.9	1.9	1.9	1.9	1.9
= OR >2000	3.5	3.6	3.6	3.6	3.6	3.6	3.6	3.6
= OR >1000	6.3	6.8	6.8	6.8	6.8	6.8	6.8	6.8
= OR >600	7.5	8.1	8.1	8.2	8.2	8.2	8.2	8.2
= OR >300	7.6	8.2	8.2	8.3	8.3	8.3	8.3	8.3
= OR >150	7.6	8.2	8.2	8.3	8.3	8.3	8.3	8.3
= OR > 0	7.7	8.3	8.3	8.4	8.4	8.4	8.4	8.4
TOTAL	482	520	522	525	526	526	526	526

TOTAL NUMBER OF OBS: 6261

PCT FREQ HH <5/8: 91.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
39.4	22.8	14.6	9.8	4.6	2.7	2.8	1.6	1.5 .1	6596

FEBRUARY

PERIOD* (PRIMARY) 1953-1979
(OVER-ALL) 1863-1979

AREA 0006 MANZANILLO SE
19.6N 102.5W

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO 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	.1	
	TOT %	.0	*	.0	.0	.0	.0	*	*	.0	.0	.1	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
2<5	PCP	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
	NO PCP	.1	.0	.0	*	.0	.0	.1	.1	.0	.0	.2	
	TOT %	.1	.0	.0	*	*	.0	.1	.1	.0	.0	.2	
5<10	PCP	*	.0	.0	.0	.0	*	*	.0	.0	*	.1	
	NO PCP	.4	.2	.2	.1	.1	.2	.7	1.1	.0	.2	3.2	
	TOT %	.4	.2	.2	.1	.1	.2	.7	1.1	.0	.2	3.2	
10+	PCP	.1	.1	*	*	*	*	*	.1	.0	*	.4	
	NO PCP	11.2	4.3	4.2	3.8	2.6	4.3	25.1	29.3	.0	11.4	96.1	
	TOT %	11.3	4.4	4.2	3.9	2.6	4.3	25.1	29.3	.0	11.4	96.4	
	TOT OBS												7405
	TOT PCT	11.7	4.6	4.4	4.0	2.8	4.5	25.9	30.5	.0	11.7	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		*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	*	.0	.0	.0	*	.0	.0	.0	*	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	*	.0	.0	.0	.0	*	*	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	.0	.0	.0	.0	*	*	.0	.0	.1	
1<2	0-3	*	.0	.0	.0	.0	.0	*	*	.0	.0	*	
	4-10	.0	.0	.0	.0	.0	.0	*	*	.0		*	
	11-21	.0	.0	.0	.0	.0	.0	.0	*	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.0	.0	.0	.0	.0	*	.1	.0	.0	.1	
2<5	0-3	*	.0	.0	.0	.0	.0	*	.0	.0	*	*	
	4-10	*	.0	.0	*	*	.0	.1	.1	.0		.2	
	11-21	*	.0	.0	*	.0	.0	*	*	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.0	.0	*	*	.0	.1	.1	.0	*	.3	
5<10	0-3	.1	*	.1	.0	*	*	.1	.1	.0	.2	.7	
	4-10	.3	.1	.1	.1	.1	.2	.4	.6	.0		1.9	
	11-21	*	*	*	*	.0	*	.2	.3	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	*	*	.0		*	
	TOT %	.4	.2	.2	.1	.1	.2	.7	1.0	.0	.2	3.2	
10+	0-3	2.1	1.0	1.3	.8	.7	1.2	3.4	3.2	.0	11.5	25.2	
	4-10	7.4	3.1	2.6	2.7	1.8	2.8	16.4	19.0	.0		55.8	
	11-21	1.4	.2	.3	.3	.2	.3	5.2	7.1	.0		15.1	
	22+	.1	*	.0	*	.0	.0	.1	.2	.0		.4	
	TOT %	11.0	4.3	4.1	3.8	2.6	4.4	25.1	29.4	.0	11.5	96.4	
	TOT OBS												7747
	TOT PCT	11.5	4.5	4.3	4.0	2.8	4.6	25.9	30.6	.0	11.8	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1963-1979

AREA 0006 MANZANILLO SC
17.6N 102.9W

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	AM <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	.1	1.0	2.5	1.7	.6	.4	.2	.2	6.9	93.1	1656
06E09	.1	.0	.1	1.5	3.5	1.5	1.0	.2	.3	.5	8.8	91.2	1552
12E15	.3	.0	.1	1.6	3.8	1.7	.8	.3	.2	.4	9.1	90.9	1568
18E21	.1	.1	.1	1.2	2.5	2.0	1.2	.2	.2	.3	7.9	92.1	1765
TOT	7	1	6	86	200	113	64	19	13	23	532	6009	6541
PCT	.1	*	.1	1.3	3.1	1.7	1.0	.3	.2	.4	8.1	91.9	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	.2	.4	3.1	96.3	1998
06E09	.1	.0	.1	.4	3.7	95.7	1880
12E15	.1	.3	.2	.3	4.5	94.6	1998
18E21	*	.2	.1	*	2.3	97.3	2168
TOT	5	10	10	22	271	7726	8044
PCT	.1	.1	.1	.3	3.4	96.0	100.0

TABLE 12

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

HOUR (GMT)	<150 <5DYD	<600 <1	<1000 <<	1000+ AND5+	NM <5/8 AND 5+	TOTAL OBS
00E03	.0	.1	1.1	6.0	92.9	1596
06E09	.1	.3	2.0	7.1	91.0	1486
12E15	.3	.5	2.4	7.3	90.3	1495
18E21	.1	.2	1.7	6.7	91.6	1684
TOT	7	16	110	423	5728	6261
PCT	.1	.3	1.8	6.8	91.5	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
95/99	.0	.0	.0	.0	*	.0	.0	.0	2	*
90/94	.0	.0	*	.2	.2	*	*	.0	25	.4
85/89	.0	.0	.1	.5	1.4	1.1	.2	.1	217	3.5
80/84	.0	.0	.2	1.0	9.9	16.8	5.8	1.3	1171	35.1
75/79	.0	.0	.1	.9	5.5	24.6	15.2	3.9	3105	50.2
70/74	.0	.0	.0	.1	.7	3.1	4.6	1.9	643	10.4
65/69	.0	.0	.0	.0	*	.1	.2	.1	28	.5
TOTAL	0	0	21	167	1096	2990	1613	454	6191	100.0
PCT	.0	.0	.3	2.7	17.7	48.9	26.1	7.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	*	.0	.0	.0	*	.0	.0
	*	*	*	*	*	*	*	.2	.0	.1
	.3	.2	.2	.2	.2	.2	1.0	.9	.0	.3
	3.9	1.6	2.0	1.6	1.2	1.9	9.8	8.9	.0	4.0
	6.0	2.0	1.8	1.7	1.1	2.0	12.6	16.2	.0	6.8
	1.6	.6	.3	.2	.1	.2	2.1	4.2	.0	1.0
	.1	*	.0	.0	.0	.0	*	.2	.0	*
	11.9	4.5	4.3	3.9	2.6	4.3	25.6	30.7	.0	12.2

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	95	89	85	80	75	72	66	80.1	2036
06E09	92	82	81	78	72	70	67	77.4	1898
12E15	86	82	81	77	72	69	65	76.5	2035
18E21	94	89	86	80	75	72	64	80.3	2193
TOT	95	87	84	79	73	70	64	79.6	8165

TABLE 16

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	3.6	23.3	49.6	18.7	4.8	74	1597
06E09	.0	1.2	9.8	43.8	36.2	9.0	76	1563
12E15	.0	1.3	7.0	42.4	36.6	12.8	80	1551
18E21	.0	5.6	28.7	47.0	15.0	3.5	73	1710
TOT	0	196	1127	2938	1687	477	76	6421

FEBRUARY

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1963-1979

AREA 0006 MANZANILLO SE
17.6N 102.9W

TABLE 1*

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

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	% FOG	MO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
14/16	.0	.0	.0	.0	.0	*	.1	*	*	10	.0	.1
11/13	.0	.0	.0	.0	*	.1	.1	.1	.1	24	.0	.3
9/10	.0	.0	.0	.0	.1	.1	.1	.1	.1	47	.0	.5
7/8	.0	.0	.0	*	.2	.4	.1	*		81	.0	1.2
6	.0	.0	.0	*	.1	.3	.4	*	.0	63	.0	.9
5	.0	.0	.0	.2	.5	.8	.4	.1	.0	135	.0	1.9
4	.0	.0	*	.1	.6	1.3	.6	*	.0	189	.0	2.6
3	.0	.0	*	.1	.6	1.1	.6	.0	.0	169	*	2.4
2	.0	.0	.1	.2	1.5	3.2	.4	.0	.0	380	.0	5.4
1	.0	.0	*	.4	2.4	2.9	.2	.0	.0	427	*	6.1
0	*	.0	.1	1.1	5.6	4.9	.2	.0	.0	830	*	11.8
-1	.0	*	.2	1.2	5.8	3.8	.1	.0	.0	764	*	10.9
-2	.0	*	.3	2.4	9.9	2.5	*	.0	.0	1059	*	15.1
-3	.0	.0	.3	2.9	6.7	1.3	*	.0	.0	790	*	11.3
-4	*	*	.4	3.8	6.4	.6	.0	.0	.0	777	.0	11.1
-5	.0	*	.5	3.0	3.7	.3	.0	.0	.0	532	*	7.6
-6	.0	.0	.3	2.5	1.8	.1	.0	.0	.0	326	*	4.6
-7/-8	.0	*	.7	2.5	1.2	*	.0	.0	.0	314	.0	4.5
-9/-10	.0	.0	.3	.6	.3	*	.0	.0	.0	80	.0	1.1
-11/-13	.0	.1	.1	.1	.1	.0	.0	.0	.0	25	.0	.4
-14/-16	.0	.0	*	*	.0	.0	.0	.0	.0	3	.0	*
TOTAL	1		229		1327		243		13		9	6988
		13		1476		1659		36		6997		
PCT	*	.2	3.3	21.1	47.5	23.7	3.5	.5	.2	100.0	.1	99.9

PERIOD: (OVER-ALL) 1963-1979

TABLE 10

PCT FREQ OF 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	1.7	*	.0	.0	.0	2.7
1-2	1.0	4.5	.7	.0	.0	.0	6.2
3-4	.1	2.2	.4	.2	.0	.0	2.9
5-6	.0	.2	.4	.0	.0	.0	.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	*	.0	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.1	8.7	1.5	.2	.0	.0	12.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.1	*	.0	.0	.0	1.7
1-2	.3	2.4	.3	.0	.0	.0	3.1
3-4	.0	.3	.3	*	.0	.0	.6
5-6	.0	*	.0	.0	.0	.0	*
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	3.8	.7	*	.0	.0	5.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.9	.0	.0	.0	.0	1.4
1-2	.4	.8	.0	.0	.0	.0	1.4
3-4	.1	.4	.2	.0	.0	.0	.7
5-6	.0	.2	.1	.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	1.2	2.3	.3	.0	.0	.0	3.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.0	.0	.0	.0	.0	1.2
1-2	.2	.7	.1	.0	.0	.0	1.0
3-4	.1	.4	*	.0	.0	.0	.6
5-6	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	2.3	.1	.0	.0	.0	3.0

FEBRUARY

PERIOD: (OVER-ALL) 1963-1979 AREA 0004 MANZANILLO SE
17.6N 102.9W

TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.8	.0	.0	.0	.0	.9
1-2	.3	.6	*	.0	.0	.0	.9
3-4	.0	.1	.1	.0	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	*
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	.4	1.5	.2	.0	.0	.0	2.1

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.0	.0	.0	.0	.0	1.6
1-2	.4	1.3	.4	.0	.0	.0	2.1
3-4	.1	.3	.2	.0	.0	.0	.5
5-6	.0	*	.0	.0	.0	.0	*
7	.0	.1	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	2.7	.6	.0	.0	.0	4.4

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	4.5	.0	.0	.0	.0	5.6
1-2	1.1	10.9	2.0	.0	.0	.0	14.0
3-4	.0	2.6	1.5	.0	.0	.0	4.2
5-6	.1	.3	.9	.0	.0	.0	1.2
7	.0	*	*	.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	2.4	18.3	4.4	.0	.0	.0	25.1

%

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.8	4.0	.0	.0	.0	.0	5.8
1-2	1.2	12.6	2.1	.0	.0	.0	15.9
3-4	.1	2.8	2.7	.1	.0	.0	6.7
5-6	.0	1.1	1.0	.1	.0	.0	2.2
7	.0	.3	.5	.0	.0	.0	.9
8-9	.0	.1	.1	.0	.0	.0	.2
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.2	22.0	6.5	.3	.0	.0	31.9

HGT	TOTAL PCT
<1	
1-2	
3-4	
5-6	
7	
8-9	
10-11	
12	
13-16	
17-19	
20-22	
23-25	
26-32	
33-40	
41-48	
49-60	
61-70	
71-86	
87+	
TOT PCT	68.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT
<1	18.8	19.6	.1	.0	.0	.0	33.4
1-2	5.6	33.2	5.4	.0	.0	.0	44.4
3-4	.7	9.6	5.3	.3	.0	.0	16.2
5-6	.2	1.9	2.2	.1	.0	.0	4.4
7	.0	.4	.8	.0	.0	.0	1.2
8-9	.0	.1	.1	.0	.0	.0	.3
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	25.5	60.2	13.4	*	.0	.0	100.0

HGT	TOT OBS
<1	
1-2	
3-4	
5-6	
7	
8-9	
10-11	
12	
13-16	
17-19	
20-22	
23-25	
26-32	
33-40	
41-48	
49-60	
61-70	
71-86	
87+	
	1562

PERIOD: (OVER-ALL) 1949-1979

TABLE 19

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

PERIOD (SEC)	<1	1 2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	8.9	26.5	17.0	4.8	.7	.2	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	3115	2
6-7	.3	2.9	5.4	3.9	1.0	.4	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	725	4
8-9	.1	1.0	2.2	1.4	.7	.2	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	312	4
10-11	.0	1.0	1.1	.4	.4	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	181	4
12-13	.0	.0	.8	.2	.3	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	78	5
>13	.0	.0	.0	.3	.1	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	6
INDET	11.2	2.6	2.1	.6	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	901	1
TOTAL	1096	1016	1530	611	385	64	20	15	7	3	.0	*	.0	.0	.0	.0	.0	.0	.0	5344	3
PCT	20.5	33.9	26.6	11.4	3.4	1.2	.4	.3	.1	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1875-1979

APES CODE MANZANILLO SE
17.6N 102.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SNOW	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.1	.1	.1	.0	.0	.0	.0	.3	.2	.0	.1	.0	1.9		.0	97.4
NE	1.0	.5	.6	.0	.0	.0	.0	2.1	1.0	.4	.0	.0	1.7		.0	96.2
E	1.9	.7	.7	.0	.0	.0	.0	3.3	1.3	.4	.0	.0	2.7		.0	92.5
SE	.2	.0	.4	.0	.0	.0	.0	.6	.8	.4	.0	.0	3.0		.0	95.3
S	.3	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	2.5		.0	97.2
SW	.0	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	2.0		.0	97.1
W	.0	.0	.1	.0	.0	.0	.0	.1	.0	.1	.2	.0	2.1		*	97.5
NW	.1	.0	*	.0	.0	.0	.0	.1	.1	*	.1	.0	.9		*	98.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.2	.0	4.5		.0	95.0
TOT PCT	.1	*	.1	.0	.0	.0	.0	.3	.2	.1	.2	.0	1.9		*	97.3
TOT OBS:	8365															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SNOW	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00E03	.0	.1	.0	.0	.0	.0	.0	.1	.1	*	*	.0	2.0		.0	97.6
04E09	.2	.0	.1	.0	.0	.0	.0	.3	.0	.3	.2	.0	.6		.0	98.3
12E15	.1	*	.2	.0	.0	.0	.0	.4	.1	.1	.2	.0	1.9		*	97.1
18E21	.2	*	.1	.0	.0	.0	.0	.3	.4	.0	.2	.0	2.7		.0	96.4
TOT PCT	.2	*	.1	.0	.0	.0	.0	.3	.2	.1	.2	.0	1.9		*	97.3
TOT OBS:	8573															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.6	5.7	1.0	*	.0	.0		8.3	6.8	5.2	4.9	9.4	4.5	11.2	8.1	4.9	11.1
NE	.7	1.9	.2	.0	*	.0		2.9	5.9	1.1	1.3	1.4	.0	4.6	2.8	4.1	5.4
E	.9	2.1	.4	.0	.0	.0		3.4	6.3	1.0	2.6	7.2	.0	5.1	4.3	5.3	3.6
SE	.8	2.1	.3	*	*	.0		3.2	6.6	2.1	2.4	1.7	1.5	2.0	4.0	6.2	1.4
S	.8	1.8	.2	.0	.0	.0		2.8	5.6	3.6	2.6	1.5	1.1	1.2	2.1	4.5	9.1
SW	1.1	3.3	.3	*	.0	.0		4.7	6.0	6.5	5.9	2.6	9.5	2.1	1.6	5.5	6.1
W	3.9	21.3	8.0	.2	*	.0		33.3	8.4	47.1	47.7	35.0	47.0	24.2	26.8	26.2	32.1
NW	3.2	18.5	9.3	.2	*	.0		31.3	9.0	27.4	25.6	37.4	33.2	33.7	39.3	26.6	34.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.1							10.1	.0	6.0	8.3	4.9	5.2	15.6	11.0	11.9	2.4
TOT OBS	2066	5068	1767	43	3	0	8947		7.2	2059	133	2007	334	1854	236	2344	144
TOT PCT	23.1	56.6	19.7	.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	.1	.0	.0		8.3	6.8	5.2	8.1	10.8	9.0
NE	1.6	.9	*	*	.0		2.9	5.9	1.1	1.3	4.7	4.2
E	2.2	1.2	.1	.0	.0		3.4	6.3	1.1	2.1	5.0	5.2
SE	1.9	1.3	.1	*	.0		3.2	6.6	2.1	1.7	2.2	6.5
S	1.9	.9	.0	.0	.0		2.8	5.6	3.7	1.5	1.3	4.4
SW	3.1	1.6	*	*	.0		4.7	6.0	6.2	2.9	2.0	5.5
W	13.6	18.2	1.5	*	.0		33.3	8.4	47.1	35.0	29.5	26.5
NW	11.1	18.1	2.1	.1	.0		31.3	9.0	27.2	37.0	34.3	27.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	10.1						10.1	.0	6.2	9.6	15.1	11.3
TOT OBS	4502	4089	347	*	0	8947		7.2	2172	2137	2330	2488
TOT PCT	50.3	45.7	3.9	.1	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1953-1974
(OVER-ALL) 1875-1974

AREA 0006 MANZANILLO SE
17.6N 102.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
02&03	4.2	9.3	58.2	27.5	.8	.1	.0	6.5	100.0	2192
08&09	4.6	8.9	54.7	26.3	.4	*	.0	6.1	100.0	2137
14&15	15.1	13.0	57.5	14.2	.2	.0	.0	6.4	100.0	2130
20&21	11.3	14.9	56.2	12.1	.5	.0	.0	6.1	100.0	2488
TOT	902	1164	5068	1767	43	3	0	7.2		8947
PCT	10.1	13.0	56.6	19.7	.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	5.5	1.6	1.4	.2		2.2
NE	1.7	.5	.6	.2		2.7
E	2.0	.8	.4	.3		2.6
SE	1.6	.4	.4	.2		2.6
S	1.7	.7	.4	.1		2.7
SW	2.7	.8	.7	.1		2.3
W	20.4	6.7	5.1	.8		2.2
NW	14.9	6.0	4.5	1.0		2.1
VAR	.0	.0	.0	.0		.0
CALM	6.6	1.7	1.2	.2		2.0
TOT OBS	4257	1321	1012	216	6806	2.2
TOT PCT	62.5	19.4	14.9	3.2	100.0	

TABLE 6

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

WND DIR	200 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	&M <5/8 ANY HGT	TOTAL OBS
N	*	.0	*	.1	.2	.2	.1	.0	.0	*	7.9	
NE	*	.0	*	.1	.1	.1	*	.0	*	*	2.5	
E	*	.0	*	.1	.1	.1	.1	*	.0	.0	3.0	
SE	.0	.0	*	.1	.1	.1	.1	*	*	.0	2.6	
S	.0	.0	.0	*	.1	.1	*	*	*	.0	2.6	
SW	.0	.0	.0	.1	.1	*	*	*	*	*	4.0	
W	.1	.0	*	.4	1.0	.4	.4	.1	.1	.1	30.3	
NW	.1	*	*	.5	1.0	.6	.3	*	.1	.1	28.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	*	.1	.4	.2	*	*	.1	.1	9.3	
TOT OBS	22	1	14	103	219	121	79	16	27	28	6177	6806
TOT PCT	.3	*	.2	1.5	3.2	1.8	1.1	.2	.4	.4	90.8	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) >=10	>=5	>=2	>=1	>=1/2	>=1/4	>=0*0	>=0
>= CR >=5000	.8	.8	.8	.8	.8	.8	.8	.8
>= CR >=4000	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
>= CR >=3500	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2
>= CR >=2000	3.8	4.0	4.0	4.0	4.0	4.0	4.0	4.0
>= CR >=1000	6.6	7.2	7.3	7.3	7.3	7.3	7.3	7.3
>= CR >=600	8.1	8.7	8.7	8.7	8.7	8.7	8.7	8.7
>= CR >=300	8.3	8.9	8.9	8.9	8.9	8.9	8.9	8.9
>= CR >=150	8.3	8.9	8.9	8.9	8.9	8.9	8.9	8.9
>= CR > 0	8.6	9.2	9.2	9.2	9.2	9.2	9.2	9.2
TOTAL	595	638	642	643	643	643	643	643

TOTAL NUMBER OF OBS: 6956 PCT FREQ &M <5/8: 90.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
38.8	21.4	14.6	10.1	5.1	3.2	3.1	1.0	1.5	.1	7338

PERIOD: (PRIMARY) 1953-1970
(OVER-ALL) 1875-1970

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TABLE 9

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	•	.0	.0	.0	.0	.0	.0	.0	.0	.0	•	
	TOT %	•	.0	.0	.0	.0	.0	.0	.0	.0	.0	•	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	•	.0	.0	.0	.0	•	
	TOT %	.0	.0	.0	.0	.0	•	.0	.0	.0	.0	•	
1<2	PCP	.0	•	.0	.0	.0	.0	.0	.0	.0	.0	•	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	•	.0	.0	.0	.0	.0	.0	.0	.0	•	
2<5	PCP	•	•	•	•	.0	.0	.0	•	.0	.0	.1	
	NO PCP	•	.0	.0	•	.0	•	.1	.1	.0	•	.2	
	TOT %	•	•	•	•	.0	•	.1	.1	.0	•	.3	
5<10	PCP	•	•	•	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.1	.1	.2	.2	.1	.2	1.2	.9	.0	.4	6.0	
	TOT %	.1	.2	.3	.2	.1	.2	1.2	.9	.0	.4	6.1	
10+	PCP	•	•	.1	•	•	•	•	•	.0	.0	.1	
	NO PCP	8.1	2.8	3.0	2.8	2.6	4.5	31.8	30.6	.0	9.1	95.4	
	TOT %	8.1	2.8	3.1	2.9	2.6	4.5	32.0	30.6	.0	9.1	95.6	
	TOT OBS												8314
	TOT PCT	8.5	2.9	3.4	3.1	2.8	4.7	33.3	31.7	.0	9.7	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		•	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	•	.0	.0	.0	.0	.0	•	.0	.0	.0	•	
1/2<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	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	•	.0	.0	.0	•	
1<2	0-3	.0	.0	.0	.0	.0	•	.0	.0	.0	.0	•	
	4-10	.0	.0	.0	.0	.0	.0	•	•	.0		•	
	11-21	.0	•	.0	.0	.0	.0	•	•	.0		•	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	•	.0	.0	.0	•	.0	•	.0	.0	.1	
2<5	0-3	•	•	•	.0	.0	.0	.0	.0	.0	•	.1	
	4-10	•	.0	•	•	•	•	•	•	.0		.2	
	11-21	.0	•	•	.0	.0	•	•	•	.0		.1	
	22+	.0	.0	.0	•	.0	.0	•	•	.0		.0	
	TOT %	•	•	•	•	.0	•	.1	.1	.0	•	.4	
5<10	0-3	.1	•	.1	•	•	.1	.1	.1	.0	.4	1.2	
	4-10	.2	.1	.1	.1	.1	.1	.7	.5	.0		1.8	
	11-21	.1	•	.1	•	•	•	.3	.4	.0		.9	
	22+	.0	.0	.0	.0	•	.0	•	•	.0		•	
	TOT %	.4	.1	.2	.2	.1	.2	1.2	.9	.0	.4	4.0	
10+	0-3	1.6	.7	.8	.7	.7	1.0	3.6	3.1	.0	9.2	21.4	
	4-10	5.6	1.8	2.0	1.9	1.7	3.2	20.6	18.0	.0		54.6	
	11-21	1.0	.1	.3	.3	.2	.3	7.7	9.0	.0		18.0	
	22+	•	•	.0	.0	.0	•	.2	.2	.0		.5	
	TOT %	7.9	2.7	3.1	2.9	2.6	4.5	32.1	30.4	.0	9.2	95.5	
	TOT OBS												8716
	TOT PCT	8.4	2.9	3.4	3.1	2.7	4.7	33.4	31.5	.0	9.4	100.0	

MARCH

PERIOD: (DAY)-APR 1953-1979
(EVEN)-OCT 1975-1979

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	HM <5/8 ANY HGT	TOTAL OBS
00E03	.2	.0	.1	1.3	3.1	1.7	.6	.2	.4	.6	8.4	91.6	1807
06E09	.6	.0	.2	1.5	2.3	1.0	.6	.3	.2	.6	7..	92.4	1764
12E15	.2	.0	.3	2.2	4.6	2.4	1.3	.2	.2	.3	11.6	88.4	1692
18E21	.2	*	.1	.7	2.6	1.9	1.5	.2	.4	.2	8.1	91.9	2037
TOT	22	1	14	102	227	126	80	17	27	31	648	6132	7260
PCT	.3	*	.2	1.4	3.1	1.7	1.1	.2	.4		8.9	91.1	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	.3	3.3	96.3	2154
06E09	*	.0	.0	.5	3.9	95.7	2142
12E15	*	.0	*	.6	5.7	93.6	2141
18E21	.0	*	.1	.3	3.5	96.1	2510
TOT	2	1	5	32	263	6532	8945
PCT	*	*	.1	.4	4.1	95.4	100.0

TABLE 12

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

HOUR (GMT)	<150 <5BYD	<600 <1	<1000 <5	1000+ AND5+	HM <5/8 AND 5+	TOTAL OBS
00E03	.2	.3	1.8	7.1	91.1	1724
06E09	.7	.9	2.8	5.5	91.7	1660
12E15	.2	.6	3.0	9.2	87.8	1627
18E21	.7	.5	1.4	7.2	91.4	1945
TOT	23	36	143	503	6330	6956
PCT	.3	.5	2.2	7.2	90.8	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	.2	.2	.1	.3	.1	.0	.0	33	.5
85/89	.0	.2	.0	.3	1.3	1.2	.2	.1	216	3.1
80/84	.0	.9	.1	.4	7.5	19.4	4.6	1.2	1569	26.5
75/79	.*	.3	*	.4	4.0	23.3	18.3	4.4	3495	50.4
70/74	.0	.2	*	.1	.7	4.1	7.5	3.5	1100	15.9
65/69	.0	.1	.0	.0	*	.2	.4	.4	92	1.3
60/64	.0	.0	.0	.0	.0	.0	.0	*	1	*
TOTAL	2	6	10	119	951	2986	2158	683	6906	100.0
PCT	.0	.0	.1	1.7	13.8	43.2	31.2	9.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	*	.1	*	.1	.0	*	.1	.1	.0	*
	.3	.1	.1	.1	.1	.2	1.1	.8	.0	.4
	2.4	1.1	1.2	1.3	.4	1.7	9.7	7.5	.0	2.7
	4.1	1.2	1.5	1.4	1.4	2.1	17.6	15.7	.0	5.3
	1.4	.4	.7	.3	.2	.4	4.4	4.8	.0	1.3
	.2	*	*	*	*	*	.4	.4	.0	.1
	.0	.0	.0	.0	.0	*	.0	.0	.0	.0
	6.5	2.9	3.6	3.2	2.4	4.4	33.3	31.5	.0	9.8

TABLE 15

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

HOUR (GMT)	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	94	89	85	79	74	71	63	79.3	2194
06E09	97	92	81	77	71	69	63	76.5	2169
12E15	96	92	90	76	70	69	64	75.6	2186
18E21	94	89	86	80	73	70	64	79.7	2550
TOT	94	87	84	78	72	69	63	77.9	9099

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	2.1	17.5	50.5	24.0	5.8	76	1741
06E09	.0	.8	6.1	39.3	40.4	13.5	81	1739
12E15	.0	.4	5.9	33.2	44.3	16.1	81	1681
18E21	.0	3.7	24.0	48.0	19.1	5.1	74	1938
TOT	0	130	977	3052	2235	705	78	7099

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1875-1979

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TABLE 17

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

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	% FOG	NO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	*	.0	1	.0	*
14/16	.0	.0	.0	.0	*	*	*	*	.1	15	.0	.2
11/13	.0	.0	.0	*	.1	.1	.1	.1	*	35	.9	.4
9/10	.0	.0	.0	*	.2	.3	.3	.1	.0	67	.0	.9
7/8	.0	.0	.0	.1	.4	.5	.4	.1	.0	116	.0	1.5
6	.0	.0	*	.1	.4	.3	.2	.1	.0	80	.0	1.0
5	.0	.0	.1	.2	.6	.9	.4	*	.0	168	.0	2.1
4	.0	.0	.1	.3	.9	1.3	.4	*	.0	235	*	3.0
3	.0	.0	.1	.3	1.0	1.2	.5	*	.0	246	*	3.1
2	.0	*	.1	.7	2.4	2.3	.2	*	.0	454	*	5.8
1	.0	.0	.2	.9	2.5	2.2	.2	*	.0	469	*	6.0
0	.0	*	.4	2.3	5.5	3.9	.2	.0	.0	959	*	12.2
-1	.0	.1	.4	2.4	5.2	2.2	*	.0	.0	805	*	10.3
-2	.0	.1	.6	3.8	7.6	1.8	*	.0	.0	1086	*	13.8
-3	.0	.1	.9	4.0	5.5	.8	*	.0	.0	879	*	11.2
-4	*	.2	.7	4.4	4.8	.5	.0	.0	.0	828	*	10.5
-5	.0	.1	.9	3.4	3.1	.2	.0	.0	.0	601	.0	7.7
-6	*	.1	.5	2.4	1.2	.1	.0	.0	.0	329	*	4.2
-7/-8	.0	.1	.4	2.2	1.0	.1	.0	.0	.0	328	.0	4.2
-9/-10	.0	.1	.3	.6	.2	.0	.0	.0	.0	93	.0	1.2
-11/-13	*	*	.1	.1	*	.0	.0	.0	.0	26	.9	.3
-14/-16	*	*	*	.1	.0	.0	.0	.0	.0	7	.0	.1
-17/-19	.0	.0	.0	*	.0	.0	.0	.0	.0	1	.0	*
TOTAL	%		482		3335		235		6		15	7813
		60		2204		1458		44		7828		
PCT	.1	.8	6.2	28.2	42.6	18.6	3.0	.6	.1	100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	1.5	.0	.0	.0	.0	2.7
1-2	.2	3.6	.2	.0	.0	.0	4.0
3-4	.1	.9	.6	.0	.0	.0	1.6
5-6	.0	*	.3	.0	.0	.0	.3
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	6.2	1.2	.0	.0	.0	8.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.0	.0	.0	.0	.0	1.7
1-2	.3	1.1	.1	.0	.0	.0	1.5
3-4	.0	.5	.1	.0	.0	.0	.7
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	2.6	.4	.0	.0	.0	4.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.8	.0	.0	.0	.0	1.1
1-2	.2	1.7	.2	.0	.0	.0	2.0
3-4	.0	.3	.1	.0	.0	.0	.3
5-6	.1	*	.2	.0	.0	.0	.3
7	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.8	.5	.0	.0	.0	3.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.6	.0	.0	.0	.0	.9
1-2	.1	1.2	.3	.0	.0	.0	1.6
3-4	*	.3	.1	.0	.0	.0	.5
5-6	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.1	.1	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.2	.5	.1	.0	.0	3.2

MARCH

PERIOD: (OVER-ALL) 1949-1979 AREA 0006 MANZANILLO SE
17.6N 102.9W

TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.0	.0	.0	.0	.4	.4	1.0	.0	.0	.0	.0	1.3
1-2	.3	1.3	.2	.0	.0	.0	1.7	.2	1.8	.1	.0	.0	.0	2.0
3-4	*	.2	.0	.0	.0	.0	.2	.0	.6	.1	*	.0	.0	.7
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.1	.0	.0	.0	.1	.0	*	.0	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.7	.2	.0	.0	.0	2.3	.6	3.4	.2	*	.0	.0	4.3

	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	.9	3.9	.0	.0	.0	.0	4.8	1.1	3.1	.2	.0	.0	.0	4.4	
1-2	.9	11.5	2.3	.0	.0	.0	14.7	1.0	11.6	2.6	.0	.0	.0	15.4	
3-4	.2	5.4	4.3	.1	.0	.0	10.0	.3	5.0	4.4	.1	.0	.0	9.8	
5-6	.0	.5	1.5	.1	.0	.0	2.1	.1	.6	1.8	.1	.0	.0	2.5	
7	.0	.2	.1	*	.0	.0	.4	.0	*	.4	*	.0	.0	.4	
8-9	.0	.0	.0	*	.0	.0	*	.0	.1	.1	*	.0	.0	.2	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.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	21.5	8.4	.3	.0	.0	32.3	2.5	20.6	9.5	.2	.0	.0	32.7	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	14.3	12.1	.2	.0	.0	.0	26.5	
1-2	3.7	33.5	5.8	.0	.0	.0	43.0	
3-4	.8	13.0	9.5	.2	.0	.0	23.5	
5-6	.1	1.3	3.8	.2	.0	.0	5.4	
7	.0	.2	.7	.1	.0	.0	1.2	
8-9	.0	.1	.2	.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	
								1691
TOT PCT	19.0	60.3	20.2	.5	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1979

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	7.8	24.6	18.6	5.3	1.4	.5	.1	*	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	3473	3
6-7	.2	2.7	6.4	4.6	1.2	.5	.2	*	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	938	4
8-9	.1	.9	2.7	1.8	.6	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	380	4
10-11	.0	.8	1.0	.5	.3	*	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	159	4
12-13	.0	.0	.2	.4	.2	*	.1	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	91	5
>13	.0	.0	.0	.5	.2	.0	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	44	6
INDET	9.8	1.9	1.9	.8	.2	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	873	1
TOTAL	1061	1845	1865	831	241	68	26	9	5	4	3	0	0	0	0	0	0	0	0	5958	3
PCT	17.8	31.0	31.3	13.9	4.0	1.1	.4	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1954-1979
(OVER-ALL) 1870-1979

AREA 0006 MANZANILLO SE
17.6N 102.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.2	.0	.0	.0	.	.0	.0	.2	.0	.2	.4	.0	3.5	.0		95.7
NE	.4	.0	.9	.0	.0	.0	.0	1.3	.8	.4	.0	.0	9.2	.0		88.2
E	.7	.0	.0	.0	.0	.0	.0	.7	.8	.3	.4	.0	10.7	.0		87.2
SE	.4	.3	.0	.0	.0	.0	.0	.7	.7	1.5	.0	.0	4.9	.7		91.5
S	.0	.0	.0	.0	.0	.0	.0	.0	.8	.3	.0	.0	6.0	.0		92.8
SW	.0	.0	.2	.0	.0	.0	.0	.2	.0	.2	.6	.0	6.4	.0		92.5
W	.0	*	*	.0	.0	.0	.0	.1	.1	.1	.3	.0	5.0	*		94.5
NW	*	.0	.0	.0	.0	.0	.0	*	*	.1	.2	.0	3.9	*		95.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.1	.5	.7	.0	11.2	.1		87.5
TOT PCT	.1	*	*	.0	.0	.0	.0	.1	.1	.2	.3	.0	5.6	.1		93.5
TOT OBS:	8278															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00E03	.1	*	.0	.0	.0	.0	.0	.1	.1	*	.1	.0	4.7	.0		94.9
06E09	.1	*	.0	.0	.0	.0	.0	.1	.2	.5	.2	.0	3.8	*		95.0
12E15	*	*	.2	.0	.0	.0	.0	.3	.1	.2	.7	.0	6.2	*		92.5
18E21	*	.0	.0	.0	.0	.0	.0	*	.2	.0	.4	.0	7.2	.1		92.0
TOT PCT	.1	*	*	.0	.0	.0	.0	.2	.1	.2	.3	.0	5.6	.1		93.5
TOT OBS:	8509															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.5	4.5	.8	*	*	.0		6.8	6.7	3.5	2.2	6.5	5.0	10.1	8.1	7.7	4.2
NE	.8	1.7	.2	*	.0	.0		2.7	5.7	1.1	1.0	1.4	.0	4.6	3.1	3.5	6.8
E	.8	2.0	.3	*	.0	.0		3.2	6.5	1.0	.6	2.3	.0	5.2	3.3	4.4	6.1
SE	1.1	2.2	.4	*	.0	.0		3.8	6.3	2.4	5.6	2.6	1.4	3.5	5.2	6.1	3.4
S	.6	1.8	.2	.0	.0	.0		2.7	5.8	2.8	1.8	1.6	1.4	1.5	.9	4.8	3.0
SW	1.4	3.5	.5	*	.0	.0		5.3	5.9	8.7	7.3	3.2	9.8	2.2	3.1	6.6	1.5
W	4.0	21.4	8.2	.3	.0	.0		34.0	8.4	49.4	36.9	35.1	47.9	23.6	25.2	27.8	39.0
NW	3.5	18.4	8.3	.4	*	.0		30.6	9.0	26.9	39.9	38.0	32.9	32.1	40.8	24.9	31.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.9							10.9	.0	4.2	4.8	9.2	4.6	17.1	10.3	14.2	4.5
TOT OBS	2172	4915	1676	75	2	0	8840		7.1	2071	126	1947	108	1950	213	2293	132
TOT PCT	24.6	55.6	19.0	.8	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.9	2.8	.1	*	.0		6.8	6.7	3.5	6.3	9.9	7.5
NE	1.9	.8	*	*	.0		2.7	5.7	1.1	1.3	4.6	3.7
E	2.0	1.1	.1	*	.0		3.2	6.5	.9	2.2	5.0	4.5
SE	2.3	1.3	.1	*	.0		3.8	6.3	2.6	2.5	3.7	5.9
S	1.9	.8	.0	.0	.0		2.7	5.8	2.7	1.6	1.4	4.7
SW	3.6	1.7	*	.0	.0		5.3	5.9	8.6	3.5	2.3	6.3
W	14.2	18.0	1.8	*	.0		34.0	8.4	48.7	35.8	23.7	28.4
NW	11.0	17.4	2.1	.1	*		30.6	9.0	27.6	37.7	32.9	25.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	10.9						10.9	.0	4.2	9.0	16.5	13.7
TOT OBS	4572	3802	372	13	1	8840		7.1	2197	2055	2163	2425
TOT PCT	51.7	43.9	4.2	.1	*		100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1954-1979
(OVER-ALL) 1870-1979

AREA 0006 MANZANILLO SE
17.6N 102.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00E03	4.2	9.8	57.1	27.5	1.4	.0	.0	8.7	100.0	2197
06E09	9.0	9.9	58.1	21.9	1.1	*	.0	7.9	100.0	2055
12E15	16.5	16.2	52.5	14.3	.5	.0	.0	6.1	100.0	2163
18E21	13.7	18.1	54.8	12.9	.5	*	.0	6.0	100.0	2425
TOT	965	1207	4915	1676	75	2	0	7.1		8840
PCT	10.9	13.7	55.6	19.0	.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	3.6	1.7	1.4	.4		2.9
NE	1.3	.6	.6	.2		3.1
E	1.4	.6	.8	.4		3.4
SE	1.5	.9	1.0	.3		3.4
S	1.5	.7	.5	.1		2.7
SW	2.5	1.3	1.0	.2		2.8
W	19.1	7.3	6.2	1.7		2.6
NW	16.9	6.0	5.9	1.3		2.6
VAR	.0	.0	.0	.0		.0
CALM	6.4	2.0	2.0	.7		2.5
TOT OBS	3659	1423	1300	370	6752	2.7
TOT PCT	54.2	21.1	19.3	5.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCUPRENCE 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	.5	.2	.1	.1	.1	*	6.1	
NE	*	*	*	.2	.1	*	.1	*	*	*	2.2	
E	*	*	*	.2	.4	.1	.1	*	.0	*	2.4	
SE	.0	*	*	.2	.3	.1	.1	*	.0	*	2.9	
S	.0	.0	.0	*	.2	.1	*	*	*	*	2.4	
SW	.0	.0	.0	.1	.2	.1	.1	*	*	*	4.4	
W	.1	*	.1	.5	1.5	.8	.3	.1	.2	.1	30.5	
NW	.1	*	.2	.6	1.5	.8	.3	.2	.1	.1	26.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	*	.1	.2	.5	.2	.1	.1	.1	.1	9.8	
TOT OBS	19	10	31	144	341	161	76	36	31	30	5873	6752
TOT PCT	.3	.1	.5	2.1	5.1	2.4	1.1	.5	.5	.4	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	.8	.9	.9	.9	.9	.9	.9	.9
= OR >5000	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4
= OR >3500	2.3	2.5	2.5	2.5	2.5	2.5	2.5	2.5
= OR >2000	4.4	4.9	4.9	4.9	4.9	4.9	4.9	4.9
= OR >1000	8.7	9.8	9.9	9.9	9.9	9.9	9.9	9.9
= OR >600	10.6	12.0	12.1	12.1	12.1	12.1	12.1	12.1
= OR >300	10.9	12.4	12.6	12.6	12.6	12.6	12.6	12.6
= OR >150	11.0	12.5	12.7	12.7	12.7	12.7	12.7	12.7
= OR > 0	11.2	12.7	13.0	13.0	13.0	13.0	13.0	13.0
TOTAL	775	882	899	900	900	901	903	903

TOTAL NUMBER OF OBS: 6933 PCT FREQ NH <5/8: 87.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
37.7	18.3	14.0	10.4	6.2	4.3	3.6	2.9	2.3 .2	7283

PERIOD: (PRIMARY) 1954-1979
(OVER-ALL) 1970-1979

APE# 0006 MANZANILLO SE
17.6N 102.9W

TABLE A

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	*	.0	*	*	
	TOT %	.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	*	*	
	TOT %	*	.0	.0	.0	*	.0	*	*	.0	*	*	
2<5	PCP	.0	*	*	*	.0	.0	*	.0	.0	.0	*	
	NO PCP	*	*	*	*	.0	*	.1	.1	.0	.1	.4	
	TOT %	*	*	*	.1	.0	*	.1	.1	.0	.1	.5	
5<10	PCP	*	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	NO PCP	.4	.3	.4	.4	.2	.4	2.5	2.1	.0	1.2	7.8	
	TOT %	.4	.3	.4	.4	.2	.4	2.5	2.1	.0	1.2	7.4	
10+	PCP	.0	*	*	*	.0	*	*	*	.0	.0	.1	
	NO PCP	6.4	2.4	2.8	3.2	2.5	4.7	31.8	28.3	.0	9.3	91.5	
	TOT %	6.4	2.4	2.9	3.2	2.5	4.7	31.8	28.3	.0	9.3	91.6	
	TOT OBS												8267
	TOT PCT	6.9	2.7	3.2	3.7	2.7	5.1	34.4	30.5	.0	10.7	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	*	*	
	4-10	*	*	.0	.0	.0	*	*	*	.0		.1	
	11-21	*	.0	.0	.0	.0	*	.0	*	.0		*	
	22+	.0	.0	.0	.0	.0	.0	*	.0	.0		*	
	TOT %	*	*	.0	.0	.0	*	*	*	.0	*	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	*	.0		*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	*	.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	*	.1	
2<5	0-3	*	*	*	*	.0	*	*	*	.0	.2	.3	
	4-10	*	*	*	*	.0	*	.1	.1	.0		.3	
	11-21	.0	*	*	*	.0	.0	*	*	.0		*	
	22+	.0	.0	*	*	.0	.0	*	*	.0		*	
	TOT %	.1	*	.1	.1	.0	*	.1	.1	.0	.2	.7	
5<10	0-3	.1	.1	.1	.1	*	.2	.4	.3	.0	1.2	2.4	
	4-10	.3	.2	.2	.3	.2	.2	1.5	1.2	.0		4.0	
	11-21	.1	*	*	.1	*	*	.5	.5	.0		1.2	
	22+	.0	.0	*	.0	.0	.0	*	*	.0		.1	
	TOT %	.4	.3	.3	.4	.2	.4	2.4	2.1	.0	1.2	7.7	
10+	0-3	1.4	.7	.7	.9	.6	1.1	3.5	3.1	.0	9.5	21.6	
	4-10	4.2	1.5	1.8	1.9	1.7	3.2	20.0	17.1	.0		51.4	
	11-21	.8	.2	.3	.4	.2	.3	7.8	7.8	.0		17.7	
	22+	*	*	*	.0	.0	*	.3	.3	.0		.6	
	TOT %	6.4	2.4	2.8	3.2	2.4	4.8	31.6	28.3	.0	9.5	91.4	
	TOT OBS												8581
	TOT PCT	6.9	2.7	3.2	3.6	2.7	5.2	34.2	30.6	.0	10.9	100.0	

APRIL

PERIOD: (PRIMARY) 1954-1979
(OVER-ALL) 1970-1979

AREA 0006 MANZANILLO SE
17.6N 102.9W

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.1	.2	.3	1.5	4.1	2.6	1.1	.5	.3	.5	11.2	88.8	1829
06E09	.4	.1	.1	1.5	3.2	1.8	.9	.3	.3	.4	9.0	91.0	1683
12E15	.4	.1	.9	4.4	7.8	2.5	1.0	.4	.2	.4	18.1	81.9	1749
18E21	.2	.2	.5	1.2	4.2	2.2	1.3	.8	.8	.5	11.9	88.1	1961
TOT	20	10	32	153	349	165	77	37	31	32	906	6316	7222
PCT	.3	.1	.4	2.1	4.8	2.3	1.1	.5	.4	.4	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
00E03	.1	*	.0	.3	5.4	94.2	2146
06E09	.2	.0	.1	.4	7.0	92.2	2075
12E15	.2	.0	.2	1.3	10.3	87.9	2165
18E21	.1	*	.0	.8	7.8	91.2	2429
TOT	15	2	6	63	674	8055	8815
PCT	.2	*	.1	.7	7.6	91.4	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 <5DYD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.3	.7	2.3	9.5	88.3	1755
06E09	.4	.9	2.8	7.2	90.0	1617
12E15	.4	1.5	7.0	12.6	80.4	1672
18E21	.2	.9	2.5	10.0	87.5	1989
TOT	23	69	251	687	6000	6933
PCT	.3	1.0	3.6	9.9	86.5	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
95/99	.0	.0	.0	*	.0	.0	.0	.0	1	*
90/94	.0	*	*	.1	.2	*	.1	.0	32	.5
85/89	.0	*	.1	.4	1.8	2.0	.6	.1	251	3.1
80/84	.0	.0	*	.5	7.5	17.9	8.5	1.5	2485	35.9
75/79	.0	.0	.0	.2	2.3	19.3	19.2	5.3	3210	46.4
70/74	.0	.0	.0	.0	.5	2.1	5.5	3.6	805	11.6
65/69	.0	.0	.0	.0	*	*	.2	.2	37	.5
TOTAL	0	1	11	84	851	2863	2362	743	6921	100.0
PCT	.0	*	.2	1.3	12.3	41.4	34.1	10.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	*	*	.0	.0
.1	*	*	*	*	*	.1	.2	.0	*
.4	.3	.1	.2	.2	.4	1.6	1.2	.0	.7
2.4	1.0	1.1	1.4	1.2	2.2	13.6	9.0	.0	3.9
3.0	1.1	1.7	1.5	1.2	1.9	15.3	15.2	.0	5.5
1.0	.3	.5	.3	.1	.3	3.3	4.5	.0	1.4
*	*	*	.0	*	*	.2	.3	.0	*
6.9	2.8	3.4	3.5	2.7	4.8	34.1	30.3	.0	11.5

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	94	88	85	80	75	72	63	80.1	2207
06E09	94	84	82	77	72	70	66	77.3	2093
12E15	88	84	82	77	71	68	60	76.4	2228
18E21	96	90	86	81	75	72	69	80.7	2476
TOT	96	88	85	79	73	70	60	78.7	9004

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	1.8	15.5	50.3	26.1	5.8	77	1769
06E09	.0	.5	4.5	35.0	44.5	15.5	82	1699
12E15	.0	.2	5.0	31.7	44.3	18.7	82	1725
18E21	.0	3.1	22.5	47.1	23.4	3.8	75	1916
TOT	0	106	869	2942	2732	762	79	7109

APRIL

PERIOD: (PRIMARY) 1956-1979
(OVER-ALL) 1870-1979

AREA 0006 MANZANILLO SE
17.6N 102.9W

TABLE 17

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

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	N FOG	%O FOG
20/22	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	2	.0	*
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
14/16	.0	.0	.0	.0	.0	*	*	.1	.1	*	13	.0	.2
11/13	.0	.0	.0	.0	.0	*	.1	.1	.1	*	26	.0	.3
9/10	.0	.0	.0	.0	.0	.1	.2	.2	.1	*	48	.0	.6
7/8	.0	.0	.0	.0	.0	.3	.5	.5	.1	.0	109	*	1.4
6	.0	.0	.0	.0	.1	.2	.7	.5	.1	.0	118	.0	1.5
5	.0	.0	.0	*	.2	.6	1.2	.8	.1	.0	217	*	2.8
4	.0	.0	.0	*	.2	.9	1.9	.8	.1	.0	299	*	3.8
3	.0	.0	.0	*	.3	.8	1.6	.4	*	.0	250	*	3.2
2	.0	.0	*	.1	.7	2.1	3.0	.4	*	.0	482	*	6.2
1	.0	.0	.0	*	.8	2.2	3.0	.3	.0	.0	490	*	6.3
0	.0	.0	*	.2	1.8	5.3	4.9	.4	.0	.0	986	*	12.7
-1	.0	.0	.0	.3	1.9	5.1	2.9	.2	.0	.0	805	*	10.4
-2	.0	.0	*	.4	3.6	6.6	2.9	*	.0	.0	1052	.1	13.5
-3	.0	.0	*	.5	2.9	5.2	1.4	.1	.0	.0	776	*	10.0
-4	.0	.0	*	.5	3.7	4.7	1.0	.1	.0	.0	779	*	10.0
-5	.0	.0	*	.6	2.9	3.7	.6	*	.0	.0	612	*	7.9
-6	.0	.0	*	.4	1.9	1.5	.1	*	.0	.0	306	*	3.9
-7/-8	.0	.0	*	.7	1.8	1.2	.1	*	.0	.0	291	*	3.7
-9/-10	.0	*	.1	.2	.4	.3	*	.0	.0	.0	82	.0	1.1
-11/-13	*	*	*	*	.1	*	.0	.0	.0	.0	18	.0	.2
-14/-16	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	1		17		1795		2033		44			26	7737
		4		309		5147		366		7	7763		
PCT	*	.1	.2	4.0	23.1	41.1	26.2	4.7	.6	.1	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

PCT FREQ OF 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	.7	.0	.0	.0	.0	1.6
1-2	.4	3.2	.3	.0	.0	.0	3.9
3-4	.1	.9	.2	.0	.0	.0	1.2
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	4.8	.7	.0	.0	.0	6.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.8	.0	.0	.0	.0	1.0
1-2	.2	1.0	*	.0	.0	.0	1.2
3-4	*	.4	.1	.0	.0	.0	.5
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.1	.0	.1	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.2	.2	.1	.0	.0	2.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.6	.0	.0	.0	.0	.9
1-2	.0	1.0	.1	.0	.0	.0	1.0
3-4	.0	.3	.2	.0	.0	.0	.5
5-6	.0	.1	.1	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.9	.4	.0	.0	.0	2.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.6	.0	.0	.0	.0	1.0
1-2	.2	.9	.1	.0	.0	.0	1.2
3-4	.1	.4	.2	.0	.0	.0	.7
5-6	.0	.1	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	1.9	.4	.0	.0	.0	3.0

APRIL

PERIOD: (OVER-ALL) 1963-1979

TABLE 18 (CONT)

AREA 0006 MANZANILLO SE
17.6N 102.9W

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

S

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

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.0	.1	.0	.0	.0	1.7
1-2	.7	1.7	.2	.0	.0	.0	2.5
3-4	.1	.5	.1	.0	.0	.0	.8
5-6	.1	.1	.1	.0	.0	.0	.3
7	.0	*	.0	.0	.0	.0	*
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.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	3.4	.5	.0	.0	.0	5.3

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.7	4.0	.1	.0	.0	.0	5.8
1-2	1.0	12.5	2.9	.1	.0	.0	16.4
3-4	.3	5.4	3.5	.0	.0	.0	9.2
5-6	.0	.4	2.2	.0	.0	.0	2.6
7	.0	.1	.3	.0	.0	.0	.4
8-9	.0	.1	.1	*	.0	.0	.3
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.9	22.6	9.1	.2	.0	.0	34.9

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.5	3.2	.1	.0	.0	.0	4.8
1-2	1.1	10.9	2.5	.0	.0	.0	14.5
3-4	.5	4.7	4.9	.1	.0	.0	10.1
5-6	.1	.6	2.0	.2	.0	.0	2.8
7	.0	.1	.5	.1	.0	.0	.6
8-9	.0	.1	.1	*	.0	.0	.2
10-11	.0	.0	.1	*	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.1	19.7	10.1	.3	.0	.0	33.2

HGT	TOTAL PCT
<1	4.8
1-2	14.5
3-4	10.1
5-6	2.8
7	.6
8-9	.2
10-11	.1
12	.0
13-16	.0
17-19	.0
20-22	.0
23-25	.0
26-32	.0
33-40	.0
41-48	.0
49-60	.0
61-70	.0
71-86	.0
87+	.0
	91.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	15.5	11.3	.3	.0	.0	.0	27.1	
1-2	4.8	31.1	6.0	.1	.0	.0	41.9	
3-4	1.3	12.6	9.1	.1	.0	.0	22.9	
5-6	.1	1.2	4.6	.2	.0	.0	6.1	
7	.0	.3	.7	.1	.0	.0	1.1	
8-9	.0	.2	.3	.1	.0	.0	.5	
10-11	.0	.0	.1	.1	.0	.0	.2	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1744
TOT PCT	21.7	56.8	20.9	.6	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1979

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	8.2	22.1	18.0	5.5	.6	.4	.2	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	3323	3
6-7	.2	3.1	6.7	4.2	1.1	.3	*	*	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0	948	4
8-9	*	1.4	3.1	1.9	.8	.2	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	455	4
10-11	.0	.9	1.0	.9	.2	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	200	4
12-13	.0	.0	.9	.5	.4	.2	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	124	5
>13	.0	.0	*	.5	.3	.1	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	58	6
INDET	10.4	1.9	1.7	.7	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	896	1
TOTAL	1126	1770	1989	664	218	61	28	11	12	3	1	0	0	0	0	0	0	0	0	6004	3
PCT	18.8	29.5	31.5	14.4	3.6	1.3	.5	.2	.2	*	*	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1954-1974
(OVER-ALL) 1961-1974

AREA CODE MANZANILLO SP
17.6N 103.4W

TABLE I

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER 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	.7	.0	.6	.0	.0	.0	.0	1.5	.5	.4	.3	.2	7.5	.0	89.5
NE	2.9	1.1	.2	.0	.0	.0	.0	4.2	.5	2.5	.5	.0	9.5	.0	82.7
E	2.3	.9	1.3	.0	.0	.0	.0	4.6	1.6	1.4	.0	.0	7.4	.0	84.5
SE	1.5	1.1	.8	.0	.0	.0	.0	3.4	.7	.4	.0	.0	6.7	.0	91.8
S	1.0	1.0	.3	.3	.0	.0	.0	1.9	1.0	1.0	.7	.0	5.6	.0	90.7
SW	.4	.4	.2	.0	.0	.0	.0	1.0	.7	.6	.9	.0	8.3	.0	88.9
W	.0	.0	.1	.0	.0	.0	.0	.1	.0	.6	.5	.0	6.4	.3	91.8
NW	.1	*	.2	.0	.0	.0	.0	.4	.7	.7	.4	.0	5.0	*	93.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.2	.0	.1	.0	.0	.0	.0	.1	.7	.9	.9	.0	14.2	.0	83.5
TOT PCT	.4	.2	.2	.0	.0	.0	.0	.8	.1	.8	.5	*	7.4	*	90.4
TOT OBS	9183														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
0000-03	.3	.1	.2	.0	.0	.0	.0	.6	.2	.1	.2	.0	6.8	.0	92.1
0400-07	.4	.2	.1	.0	.0	.0	.0	.7	.2	2.0	.1	*	4.1	*	92.6
1200-15	.6	.3	.4	.0	.0	.0	.0	1.3	.4	1.2	.7	.0	7.1	.0	89.2
1600-21	.2	.1	.2	.0	.0	.0	.0	.5	.2	.1	.2	.0	10.9	.1	87.9
TOT PCT	.4	.2	.2	.0	.0	.0	.0	.9	.3	.8	.5	*	7.1	*	90.3
TOT OBS	9451														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.5	4.3	.7	*	*	.0		6.7	6.3	5.2	7.4	5.2	7.4	10.9	6.2	4.7	5.0
NE	.5	1.7	.2	*	*	*		2.5	6.6	.9	1.2	1.7	2.0	4.4	5.0	2.7	1.1
E	.9	2.0	.5	.1	.1	.0		3.5	7.7	1.7	1.2	2.6	4.7	5.0	4.2	4.6	4.2
SE	.8	2.0	.5	.1	.0	.0		3.4	7.0	2.5	1.6	2.7	3.9	3.0	4.4	5.0	4.6
S	1.0	2.0	.2	*	*	.0		3.2	5.8	3.4	1.4	2.7	1.9	1.4	1.0	4.2	4.2
SW	1.5	4.1	.4	*	*	.0		6.0	6.1	4.9	6.8	4.8	4.3	2.4	3.6	6.4	4.2
W	4.2	27.4	7.4	.2	*	.0		39.4	8.2	49.3	43.4	34.4	45.7	21.7	27.4	31.7	28.1
NW	3.2	14.2	7.4	.2	*	.0		29.0	8.6	26.7	34.9	33.4	22.4	22.7	30.4	28.6	31.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	11.4							11.4	.0	4.4	4.4	10.2	4.3	17.0	10.1	15.1	7.7
TOT OBS	2036	8931	1692	85	15	2	9731		6.9	2286	162	2365	127	2110	298	2497	191
TOT PCT	25.0	56.8	17.4	.6	.2	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.9	2.2	.1	*	.0		6.2	6.3	5.1	5.0	10.7	6.1
NE	1.7	.7	*	*	*		2.5	6.6	.9	1.7	4.8	2.7
E	2.1	1.1	.2	.1	*		3.5	7.7	1.1	2.7	5.3	4.6
SE	2.1	1.1	.1	*	.0		3.4	7.0	2.4	2.7	3.2	5.0
S	2.2	.9	*	*	.0		3.2	5.8	3.4	2.0	1.7	4.2
SW	4.0	1.9	.1	*	.0		6.0	6.1	9.7	5.0	2.7	6.5
W	14.7	10.7	1.4	*	.0		26.8	8.2	48.8	37.1	22.3	30.9
NW	11.8	15.6	1.5	*	.0		29.0	8.5	25.6	35.0	32.9	29.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	11.4						11.4	.0	4.5	9.9	10.3	14.8
TOT OBS	5296	3119	340	22	4	9731		6.9	2448	2292	2368	2623
TOT PCT	45.9	42.5	3.5	.2	*		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1954-1979
(OVER-ALL) 1861-1979

AREA 0006 MANZANILLO SE
19.0N 104.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00-03	4.5	10.0	59.3	25.4	.7	.1	*	6.4	100.0	2448
06-09	9.9	10.8	57.9	20.4	.7	.3	.0	7.6	100.0	2242
12-15	16.3	15.3	56.3	11.5	.4	.2	.0	5.9	100.0	2368
18-21	14.8	19.0	54.1	12.5	.5	*	*	5.9	100.0	2623
TOT	1110	1326	5531	1692	55	15	2	6.9		9731
PCT	11.4	13.6	56.8	17.4	.6	.2	*		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.5	1.5	1.4	.7		3.6
NE	.9	.4	.5	.4		4.1
E	1.2	.7	1.3	.4		4.2
SE	1.1	.7	1.1	.6		4.4
S	1.4	.8	.7	.2		3.2
SW	3.0	.4	1.1	.5		3.0
W	16.4	8.5	7.3	2.4		3.0
NW	12.8	6.4	6.8	2.4		3.2
VAR	.0	.0	.0	.0		.0
CALM	6.0	2.7	2.3	1.0		2.9
TOT OBS	3347	1736	1666	651	7400	3.7
TOT PCT	45.2	23.5	22.5	8.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,HM 24/A) AND OCCURRENCE OF HM <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	HM <5/8 ANY HGT	TOTAL OBS
N	*	.0	.1	.2	.4	.1	.1	*	.0	*	5.1	
NE	*	.0	.1	.1	.2	.1	*	.0	*	*	1.6	
E	*	*	*	.3	.2	.1	.1	*	*	.0	2.8	
SE	*	*	.1	.3	.3	.1	.1	*	*	.0	2.6	
S	*	*	*	.1	.2	*	.1	*	*	.0	2.7	
SW	*	.0	*	.2	.3	.2	*	*	*	*	5.3	
W	.1	*	.1	.7	1.5	.9	.4	.2	.1	.1	30.5	
NW	.1	*	.1	.8	1.6	.9	.4	.1	.1	.1	24.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.1	.2	.5	.3	.1	*	*	.1	10.5	
TOT OBS	21	5	42	211	396	193	95	34	25	24	6354	7400
TOT PCT	.3	.1	.6	2.9	5.3	2.6	1.3	.5	.3	.3	85.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (HM 24/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) ≥ 10 >10	≥ 5 >5	≥ 3 >2	≥ 2 >1	≥ 1 >1/2	≥ 1/2 >1/4	≥ 1/4 >5040	≥ 0 >0
≥ 0 >6500	.6	.7	.7	.7	.7	.7	.7	.7
≥ 0 >4000	1.0	1.1	1.2	1.2	1.2	1.2	1.2	1.2
≥ 0 >2500	2.1	2.4	2.4	2.4	2.4	2.4	2.4	2.4
≥ 0 >2000	4.5	5.0	5.0	5.0	5.0	5.0	5.0	5.0
≥ 0 >1000	9.0	10.2	10.3	10.3	10.3	10.3	10.3	10.3
≥ 0 >600	11.3	12.6	13.1	13.1	13.1	13.1	13.1	13.2
≥ 0 >300	11.7	13.3	13.6	13.6	13.7	13.7	13.7	13.7
≥ 0 >150	11.7	13.4	13.7	13.8	13.9	13.8	13.8	13.6
≥ 0 > 0	11.8	13.6	14.0	14.0	14.0	14.1	14.1	14.1
TOTAL	900	1027	1062	1064	1068	1070	1072	1073

TOTAL NUMBER OF OBS: 7405

PCT FREQ HM <5/8: 85.9

TABLE 28

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
29.5	18.2	17.1	12.6	8.1	4.4	4.1	2.6	3.3	.2	9025

MAY

PERIOD: (PRIMARY) 1954-1979
(OVER-ALL) 1951-1979

AREA 0006 MANZANILLO SE
17.0N 102.9W

TABLE 8

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

VSBY (NMI)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	*	*	.0	.0	.0	.0	.0	.0	.0	*	
	NO PCP	.0	.0	.0	.0	.0	.0	*	.0	.0	*	*	
	TOT %	.0	*	*	.0	.0	.0	.0	*	.0	*	.1	
1/2<1	PCP	.0	*	*	.0	.0	.0	.0	.0	.0	.0	*	
	NO PCP	.0	.0	.0	.0	.0	.0	*	.0	.0	*	*	
	TOT %	.0	*	*	.0	.0	.0	.0	*	.0	*	.1	
1<2	PCP	.0	.0	*	.0	*	.0	.0	*	.0	.0	*	
	NO PCP	.0	.0	.0	.0	*	.0	*	*	.0	*	*	
	TOT %	.0	.0	*	.0	*	.0	*	*	.0	*	.1	
2<5	PCP	*	*	*	*	.0	*	.0	.0	.0	*	.1	
	NO PCP	.1	*	*	*	*	*	.1	.1	.0	.1	.5	
	TOT %	.1	.1	.1	*	*	*	.1	.1	.0	.1	.6	
5<10	PCP	*	*	*	*	*	*	.0	.1	.0	.0	.2	
	NO PCP	.7	.4	.4	.5	.3	.4	7.9	2.2	.0	1.7	9.7	
	TOT %	.7	.4	.4	.5	.3	.4	7.9	2.2	.0	1.7	9.9	
10+	PCP	*	*	*	.1	*	*	*	*	.0	*	.1	
	NO PCP	5.4	2.0	3.0	2.8	2.4	5.1	11.6	26.4	.0	9.6	69.0	
	TOT %	5.4	2.0	3.0	2.9	2.4	5.4	11.7	28.4	.0	9.6	69.1	
	TOT OBS												9162
	TOT PCT	6.3	2.5	3.6	3.6	2.7	6.0	14.7	34.4	.0	11.4	100.0	

TABLE 9

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

VSBY (NMI)	SPD RTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	*	.0	.0	*	*	
	4-10	.0	.0	.0	.0	.0	.0	*	*	.0		.1	
	11-21	*	.0	.0	.0	.0	.0	.0	*	.0		*	
	22+	.0	*	*	.0	.0	.0	.0	.0	.0		*	
	TOT %	*	*	*	.0	.0	.0	*	*	.0	*	.1	
1/2<1	0-3	.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		*	
	TOT %	.0	*	*	.0	.0	.0	.0	*	.0	*	.1	
1<2	0-3	.0	.0	.0	.0	*	.0	*	*	.0	*	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	*	.0		*	
	11-21	*	.0	.0	.0	.0	.0	.0	*	.0		*	
	22+	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	TOT %	*	.0	*	.0	*	.0	*	*	.0	*	.1	
2<5	0-3	*	*	*	.0	*	*	*	.1	.0	.1	.0	
	4-10	.1	*	*	*	*	*	.2	.1	.0		.5	
	11-21	.0	*	*	*	.0	*	*	*	.0		.1	
	22+	*	*	*	*	.0	*	.0	.0	.0		.1	
	TOT %	.1	.1	.1	.1	*	.1	.3	.2	.0	.1	1.0	
5<10	0-3	.2	.1	.1	.2	.1	.1	.6	.2	.0	1.6	3.3	
	4-10	.4	.3	.2	.3	.2	.4	1.0	1.4	.0		4.4	
	11-21	.1	*	.1	.1	*	.1	.4	.5	.0		1.1	
	22+	.0	.0	*	*	*	*	*	*	.0		.1	
	TOT %	.7	.4	.4	.5	.3	.4	2.0	2.2	.0	1.6	9.7	
10+	0-3	1.3	.6	.7	.7	.6	1.3	3.6	2.0	.0	9.6	21.1	
	4-10	3.6	1.3	1.8	1.7	1.6	3.8	28.0	16.6	.0		58.4	
	11-21	.6	.1	.4	.4	.2	.3	7.1	6.9	.0		16.8	
	22+	*	*	*	.1	*	*	.2	.1	.0		.5	
	TOT %	5.4	1.9	3.0	2.9	2.3	5.4	31.0	29.0	.0	9.6	89.0	
	TOT OBS												9679
	TOT PCT	6.2	2.5	3.5	3.4	2.7	6.0	34.0	29.0	.0	11.4	100.0	

PERIOD: (PRIMARY) 1954-1979
(OVER-ALL) 1951-1979

AREA 0006 MANZANILLO SE
17.6N 102.9W

TABLE 10

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

HOUR (GMT)	<150	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	>6500 7999	8000+	TOTAL	MM <5/8 ANY HGT	TOTAL OBS
00E03	.1	.1	.3	2.3	4.2	2.1	1.2	.6	.5	.2	11.6	88.2	2058
06E09	.1	.1	.5	2.2	4.7	2.0	.7	.2	.2	.4	11.2	84.8	1842
12E15	.3	.1	.8	4.6	8.0	3.8	1.7	.3	.3	.4	20.3	79.7	1902
18E21	.4	*	.5	2.0	3.6	2.1	1.3	.7	.4	.2	11.2	88.8	2131
TOT	21	6	43	219	401	197	97	35	28	25	1074	6859	7933
PCT	.3	.1	.5	2.8	5.1	2.5	1.2	.4	.4	.3	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
00E03	*	*	*	.6	6.4	92.9	2412
06E09	.1	*	*	.9	7.6	91.3	2714
12E15	.2	.1	.1	1.7	13.2	84.7	2373
18E21	.2	.2	.2	1.1	11.7	86.6	2651
TOT	16	8	9	104	952	8663	9750
PCT	.1	.1	.1	1.1	9.8	88.9	100.0

TABLE 12

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

HOUR (GMT)	<150 <500	<600 <1	<1000 <3	1000+ AND5+	MM <5/8 AND 5+	TOTAL OBS
00E03	.2	.7	3.3	9.1	87.6	1979
06E09	.3	1.0	3.6	9.2	88.0	1773
12E15	.3	1.4	6.9	14.8	78.3	1819
18E21	.4	1.0	3.5	9.6	87.9	2034
TOT	22	77	326	772	6507	7605
PCT	.3	1.0	4.3	10.2	85.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	*	*	*	.0	.0	.0	5	.1
90/94	.0	.0	.0	.2	.6	.4	*	.1	98	1.2
85/89	.0	.0	*	.3	3.6	9.5	1.6	.4	944	12.5
80/84	.0	.1	*	.4	7.1	23.0	18.7	2.8	4035	52.4
75/79	.0	.0	.0	.1	.9	11.5	14.0	4.6	2354	31.1
70/74	.0	.0	.1	.0	.1	.3	1.4	.9	208	2.7
65/69	.0	.0	.0	.1	.0	.0	*	.0	3	*
TOTAL	*	2	1	14	954	3272	2715	697	7705	100.0
PCT	.0	.0	*	1.7	12.4	42.4	35.2	9.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

%	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	*	*	.0	.0	*	*	.0	*
.1	*	*	.1	.3	.2	.5	.3	.0	.1
.7	.3	.5	.5	.6	.9	4.4	3.0	.0	1.5
3.1	1.2	1.8	2.0	1.8	3.0	19.0	12.5	.0	6.2
2.1	.8	1.2	.8	.5	1.0	9.9	10.3	.0	5.9
.2	.1	.1	*	*	.1	.7	1.3	.0	.3
*	*	.0	.0	.0	.0	*	.0	.0	.0
6.2	2.4	3.7	3.5	3.1	5.4	34.4	28.6	.0	12.1

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	90%	50%	10%	MIN	MEAN	TOTAL OBS
00E03	96	90	84	82	77	74	64	82.2	2461
06E09	93	85	84	80	75	72	68	79.5	2346
12E15	95	85	83	79	74	72	64	79.8	2446
18E21	96	91	89	83	77	73	68	82.7	2705
TOT	96	90	87	81	75	73	64	81.4	9958

TABLE 16

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	1.0	17.2	46.8	27.4	5.5	77	2002
06E09	.0	.3	4.4	38.3	45.2	11.7	81	1921
12E15	.0	.3	3.7	32.3	48.6	15.1	82	1915
18E21	.0	2.3	22.4	44.1	22.0	4.2	75	2096
TOT	1	81	973	3361	2910	704	79	7934

PERIOD: (PRIMARY) 1954-1974
(OVER-ALL) 1861-1974

AREA 0006 MANZANILLO SE
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TABLE 17

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

AIR-SEA	61	65	69	73	77	81	85	89	>92	TOT	#	#O
THF DIF	64	68	72	76	80	84	88	92			FOG	FOG
20/22	.0	.0	.0	.0	.0	.0	*	.0	.0	1	.0	*
17/19	.0	.0	.0	.0	.0	.0	*	.0	.0	1	.0	*
14/16	.0	.0	.0	.0	.0	*	.1	*	.1	15	.0	.2
11/13	.0	.0	.0	.0	*	.1	.1	*	*	26	.0	.3
9/10	.0	.0	.0	.0	*	.1	.3	.2	.1	49	.0	.7
7/8	.0	.0	.0	*	.1	.4	.4	.3	*	135	*	1.6
6	.0	.0	.0	*	.1	.3	.6	.3	.0	68	.1	1.1
5	.0	.0	.0	.1	.2	.7	.6	.3	.0	124	.1	2.3
4	.0	.0	.0	.1	.6	1.6	1.3	.2	.0	249	.1	3.4
3	.0	.0	.0	.1	.6	1.3	1.3	.2	*	276	*	3.2
2	.0	.0	.0	.1	1.2	3.1	2.7	.2	.0	529	.1	6.1
1	.0	.0	*	.3	1.3	3.6	2.4	.2	.0	571	*	6.6
0	.0	.0	.1	.7	4.1	7.4	3.6	*	.0	1192	.1	13.6
-1	.0	.0	*	.8	3.8	5.6	.8	*	.0	946	*	11.2
-2	.0	.0	.1	1.1	6.0	4.8	.4	.1	.0	1256	.1	14.5
-3	.0	.0	*	1.0	5.3	4.0	.3	.1	.0	906	*	10.5
-4	.0	*	.1	1.4	5.4	2.0	.1	.0	.0	654	*	9.9
-5	.0	.0	.1	1.0	3.6	1.6	.1	.0	.0	563	*	6.3
-6	.0	.0	.1	.7	1.9	.7	*	.0	.0	281	*	3.4
-7/-8	.0	.0	.1	.9	1.7	.5	*	.0	.0	273	*	3.2
-9/-10	.0	*	.1	.5	.4	.1	.0	.0	.0	80	*	.9
-11/-13	.0	.0	.1	.2	.1	*	.0	.0	.0	39	.1	.4
-14/-16	.0	*	.0	*	.0	.0	.0	.0	.0	3	.0	*
-17/-19	*	*	.0	.0	.0	.0	.0	.0	.0	*	.0	*
TOTAL	2		5%		1095		5.0		18		42	9546
		6		756		3509		156		8598		
PCT	*	.1	.1	8.8	31.0	40.8	11.5	1.8	.2	100.0	.5	99.5

PERIOD: (OVER-ALL) 1952-1977

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	.7	.9	.0	.0	.0	.0	1.6
1-2	.4	2.2	.4	.0	.0	.0	3.0
3-4	.0	1.0	.4	.0	.0	.0	1.4
5-6	.0	.1	.2	.0	.0	.0	.3
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	4.1	1.1	.0	.0	.0	6.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.6	.6	.0	.0	.0	1.8
1-2	.5	1.6	.5	.0	.0	.0	2.6
3-4	.2	.5	.2	.0	.0	.0	.9
5-6	.1	.2	.1	.0	.0	.0	.4
7	.0	.1	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	3.1	1.4	.0	.0	.0	5.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	.2	.0	.0	.0	.8
1-2	.2	.8	.2	.0	.0	.0	1.2
3-4	.1	.4	.1	.0	.0	.0	.5
5-6	.0	.1	.0	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	1.8	.4	.1	.0	.0	2.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	.9	.6	.0	.0	.0	2.4
1-2	.9	1.4	.6	.0	.0	.0	2.9
3-4	.4	.6	.1	.0	.0	.0	1.1
5-6	.1	.2	.0	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	2.1	.6	.1	.0	.0	3.2

PERIOD: (OVER-ALL) 1963-1979 AREA 0006 MANZANILLO SE
17.6N 102.9W

TABLE 1B (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	.6	.0	.0	.0	1.2
1-2	.2	.4	.6	.0	.0	.0	1.2
3-4	.1	.2	.2	.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	1.4	1.6	1.0	.0	.0	.0	4.0

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.0	.5	.0	.0	.0	2.0
1-2	.7	2.2	.5	.0	.0	.0	3.3
3-4	.0	.2	.2	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	4.0	1.0	.0	.0	.0	5.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.0	3.1	1.1	.0	.0	.0	6.2
1-2	3.6	14.3	2.6	.0	.0	.0	20.5
3-4	1.4	5.2	1.8	.0	.0	.0	8.4
5-6	.1	.3	1.4	.0	.0	.0	2.0
7	.0	.0	.1	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.0	24.5	7.0	.0	.0	.0	36.2

TOTAL

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	2.6	4.6	2.2	.0	.0	.0	9.4	
1-2	4.6	16.9	3.2	.0	.0	.0	24.6	
3-4	1.5	5.4	2.0	.0	.0	.0	8.9	
5-6	.1	.3	1.4	.0	.0	.0	2.0	
7	.0	.0	.1	.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	8.8	27.2	8.9	.0	.0	.0	44.9	99.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	17.2	12.4	4.2	.0	.0	.0	29.8	
1-2	4.9	33.2	5.7	.0	.0	.0	43.8	
3-4	.7	11.5	7.1	.0	.0	.0	19.3	
5-6	.3	1.7	3.6	.0	.0	.0	5.7	
7	.0	.3	.5	.0	.0	.0	.8	
8-9	.0	.0	.1	.0	.0	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	23.1	58.9	17.4	.7	.0	.0	100.0	1929

PERIOD: (OVER-ALL) 1963-1979 TABLE 1C

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
0-6	7.5	21.7	15.7	5.1	1.1	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3516	
6-7	.2	2.7	7.1	5.2	1.3	.5	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2198	
8-9	.1	1.2	3.0	2.6	.6	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	525	
10-11	.0	.1	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	267	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	165	
14+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	63	
INCRT	9.6	25.5	26.4	13.0	3.2	1.1	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6734	
TOTAL	1194	3948	2940	1543	352	157	58	14	3	1	0	0	0	0	0	0	0	0	0	12414	
PCT	17.4	29.2	30.5	15.3	4.1	1.6	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1871-1979

AREA 0006 MANZANILLO SE
17.6N 102.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.4	.8	1.5	.0	.0	.0	.0	4.4	3.5	1.6	.0	.0	1.0	.0		87.6
NE	6.2	2.3	2.4	.0	.0	.0	.0	10.6	4.3	5.5	.0	.0	.4	.0		76.3
E	7.3	2.7	2.4	.0	.0	.0	.0	12.4	6.2	4.3	.0	.0	.2	.2		77.1
SE	7.2	3.5	1.8	.0	.0	.0	.0	12.1	4.5	3.1	.0	.0	.4	.1		80.0
S	5.6	1.4	1.1	.0	.0	.0	.0	7.9	5.1	2.3	.1	.0	.2	.1		84.2
SW	3.0	1.1	.6	.0	.0	.0	.0	4.6	1.7	3.2	*	.0	.9	.0		89.6
W	1.5	.5	.9	.0	.0	.0	.0	2.9	1.3	2.7	.0	.0	1.1	*		92.1
NW	1.8	.9	.9	.0	.0	.0	.0	3.6	1.5	2.6	.0	.0	1.0	*		91.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	1.5	.4	1.0	.0	.0	.0	.0	2.5	1.5	4.0	.0	.0	5.1	.1		88.5
TOT PCT	3.2	1.3	1.2	.0	.0	.0	.0	5.6	2.6	3.1	*	.0	1.0	.1		87.6
TOT OBS:	8633															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00E03	2.0	.5	.9	.0	.0	.0	.0	3.4	1.2	.3	*	.0	1.4	.1		93.6
06E09	2.6	1.4	.7	.0	.0	.0	.0	4.9	3.0	2.2	.0	.0	.4	.0		93.7
12E15	5.2	2.5	1.8	.0	.0	.0	.0	9.0	4.0	4.5	.0	.0	.7	*		82.0
18E21	3.3	1.1	1.4	.0	.0	.0	.0	5.6	2.2	.2	*	.0	1.4	*		90.7
TOT PCT	3.3	1.3	1.2	.0	.0	.0	.0	5.7	2.6	3.2	*	.0	1.0	.1		87.7
TOT OBS:	8867															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	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	3.7	.7	*	*	.0		5.7	6.6	2.4	2.5	4.8	5.3	9.8	7.8	6.3	2.6
NE	.5	2.3	.6	*	*	*		3.5	7.8	1.2	2.0	2.9	4.8	5.5	7.4	3.5	1.5
E	.9	4.1	2.2	.8	.1	*		8.2	11.2	4.5	4.7	6.0	7.6	11.7	10.2	10.2	11.5
SE	1.0	4.9	3.4	1.0	.1	.0		10.5	11.6	10.4	12.1	9.5	11.8	8.6	9.9	13.2	10.8
S	.9	3.9	1.1	.2	*	*		6.1	8.3	9.0	8.6	6.3	6.3	4.1	5.2	4.9	7.8
SW	1.2	4.9	1.0	.1	*	*		7.2	7.6	12.9	9.3	6.7	9.3	3.3	5.3	5.6	8.7
W	2.9	17.0	7.8	.4	.1	.0		28.1	9.1	38.4	34.7	30.1	35.6	19.0	23.6	23.9	29.4
NW	2.5	13.7	6.1	.3	*	*		22.7	8.9	17.2	17.7	24.5	14.4	27.0	25.5	23.2	19.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.0							8.0	.0	3.9	4.5	9.1	4.9	11.6	5.0	9.0	7.9
TOT OBS	1767	4986	2095	261	35	5	9144		8.4	2122	174	2002	142	1968	258	2300	174
TOT PCT	19.3	54.5	22.9	2.9	.4	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28+	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.3	2.3	.1	*	.0		5.7	6.1	.4	4.8	9.6	6.1
NE	1.7	1.5	.2	*	*		3.5	7.8	.2	3.1	5.7	3.8
E	2.9	3.6	1.4	.3	*		8.2	11.2	.9	6.1	11.2	10.3
SE	3.1	5.3	1.6	.3	*		10.5	9.6	10.5	9.6	8.7	13.0
S	3.1	2.6	.4	*	*		6.1	5.3	9.0	6.3	4.2	5.1
SW	3.7	3.2	.2	.1	*		7.2	7.6	12.6	6.9	3.6	5.8
W	10.3	15.7	1.9	.1	*		28.1	9.1	38.1	30.5	19.5	24.3
NW	9.1	11.9	1.6	.1	*		22.7	8.9	17.3	23.9	26.3	22.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	8.0						8.0	.0	4.0	8.8	10.8	8.6
TOT OBS	4139	4211	693	91	10	9144		8.4	2300	2144	2226	2474
TOT PCT	45.3	46.1	7.6	1.0	.1		100.0		100.0	100.0	100.0	100.0

NAVY

PERIOD (PRIMARY) 1953-1979
(OVERALL) 1971-1979

AREA 0006 MANZANILLO MX
17.2N 102.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	4.0	9.5	55.5	27.5	3.5	.6	.1	9.4	100.0	2300
06&09	3.3	9.8	54.1	29.3	3.7	.5	*	9.6	100.0	2144
12&15	10.8	13.5	51.1	19.9	3.4	.2	*	7.6	100.0	2226
18&21	8.6	12.7	55.3	20.3	2.8	.3	*	8.0	100.0	2474
TOT	736	1076	4986	2095	263	35	5	8.4		9144
PCT	8.0	11.8	54.5	22.9	2.9	.4	.1		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.3	1.6	2.2	1.0		4.7
NE	.4	.4	1.5	.9		5.7
E	.4	1.1	3.4	2.4		5.9
SE	1.2	2.7	4.1	2.6		5.4
S	.4	1.6	2.4	1.2		5.1
SW	1.5	1.7	2.8	1.0		4.7
W	4.2	7.6	9.5	3.8		4.2
NW	4.9	5.9	8.7	3.1		4.4
VAR	.0	.0	.0	.0		.0
CALM	2.4	2.7	2.8	.9		4.2
TOT OBS	1549	1[illegible]	2587	1004	6995	4.7
TOT PCT	22.1	23.7	[illegible].0	17.2	100.0	

TABLE 6

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

WND DIR	100 149	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	*	*	.1	.6	.7	.3	.1	*	*	*	4.2	
NE	.1	*	.1	.7	.4	.2	.1	*	*	*	7.1	
E	.2	*	.4	1.0	1.3	.5	.2	.1	*	*	4.3	
SE	.2	*	.2	.6	1.6	.6	.2	.1	*	*	8.2	
S	*	.1	.2	.5	.6	.3	.1	*	*	*	4.1	
SW	*	*	.2	.3	.3	.2	.1	*	*	*	6.1	
W	.2	.1	.4	1.5	2.6	1.5	.4	.1	.1	.1	23.6	
NW	.1	.1	.3	1.2	2.1	1.4	.5	.1	.1	.1	17.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	*	.1	.4	.4	.2	.1	.1	*	*	6.6	
TOT OBS	54	24	131	440	732	368	126	39	25	22	4994	6995
TOT PCT	.8	.3	1.9	6.4	10.5	5.3	1.8	.6	.4	.3	71.4	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >5/8YD	* OR >0
* OR >6500	.7	.7	.7	.7	.7	.7	.7	.7
* OR >5000	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3
* OR >3500	2.7	3.0	3.1	3.1	3.1	3.1	3.1	3.1
* OR >2000	7.4	8.2	8.3	8.3	8.3	8.3	8.3	8.3
* OR >1000	15.8	16.3	18.6	18.7	18.7	18.7	18.7	18.7
* OR >600	20.7	24.7	25.2	25.4	25.4	25.5	25.5	25.5
* OR >300	21.6	26.3	26.9	27.2	27.2	27.3	27.3	27.3
* OR >150	21.9	26.6	27.3	27.5	27.5	27.6	27.7	27.7
* OR > 0	22.0	27.0	27.8	28.1	28.2	28.3	28.4	28.5
TOTAL	1542	1935	1992	2019	2027	2033	2040	2043

TOTAL NUMBER OF OBS. 7177 PCT FREQ NM <5/8. 71.5

TABLE 7A

PERCENTAGE FREQ OF FOG CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
9.4	14.4	19.9	15.8	10.9	7.3	6.7	5.9	8.2	.5	7634

PERIOD: (PRIMARY) 1957-1974
(OVERLAY) 1971-1974

TABLE 5

AREA 0606 MANZANILLO SE
17.0N 102.4W

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	*		*	.1	*	*	*	*	.0	.0	.1	
<1/2	NO PCP	0	1	*	.0	*	1	*	*	.0	.0	*	
	TOT %	*	0	*	.1	*	*	*	.1	0	.0	.1	
	PCP	*	*	*	*	*	*	*	.0	0	0	.1	
1/2	NO PCP	.0	0	*	0	0	0	0	.0	.0	.0	*	
	TOT %	*	*	*	*	*	*	*	*	.0	0	*	
	PCP	.0	*	.1	1	1	*	*	*	.1	*	3	
1	NO PCP	*	.1	*	*	0	0	.0	.0	.0	*	*	
	TOT %	*	*	.1	.1	*	*	*	*	.0	*	.3	
	PCP	*	1	.2	2	*	*	.1	.1	.1	*	.7	
2	NO PCP	*	1	.1	.1	*	*	.1	1	.1	*	4	
	TOT %	*	1	.3	2	.1	*	.2	.1	.0	*	2	
	PCP	.1	1	.4	.5	2	2	4	.4	.0	1	4	
2-5	NO PCP	.1	2	.9	.9	4	5	7	.4	.0	6	7	
	TOT %	.2	3	1.4	1.4	.7	1	1.1	.7	.0	.6	4.1	
	PCP	.1	.1	.2	.4	1	1	.2	.2	.0	.1	1.8	
10+	NO PCP	5.1	21.8	5.0	4.9	5.3	5.8	12.1	10.5	.0	7.0	77.5	
	TOT %	5.3	21.9	5.3	5.3	5.4	5.8	12.2	10.8	.0	7.1	79.3	
	PCP												1117
	TOT PCT	5.6	3.5	8.2	10.6	6.1	7.2	28.1	22.7	.0	7.9	100.0	

TABLE 6

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	*	*	.0	.0	.1	
<1/2	4-10	.0	.0	*	*	*	0	*	*	.0		.1	
	11-21	*	.0	.0	*	*	.0	*	*	.0		.1	
	22+	*	.0	*	*	*	*	*	*	.0		.1	
	TOT %	*	.0	*	.1	*	*	.1	.1	.0	.0	.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	*	*	*	*	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	22+	.0	.0	*	*	*	*	*	.0	.0		.1	
	TOT %	*	*	*	*	*	*	*	.0	.0	.0	.2	
	0-3	*	.0	.0	.0	.0	.0	*	.0	.0	*	*	
1<2	4-10	.0	*	*	*	*	.0	*	*	.0		.1	
	11-21	.0	*	*	*	*	*	*	*	.0		.2	
	22+	.0	*	*	*	*	*	*	*	.0		.2	
	TOT %	*	*	.1	.1	.1	*	.1	*	.0	*	.4	
	0-3	*	*	.0	*	*	.0	.0	*	.0	.1	.1	
2<5	4-10	*	*	.1	.1	*	*	.1	.1	.0		.5	
	11-21	.0	*	.1	.2	*	*	.1	.1	.0		.5	
	22+	.0	*	.1	.1	*	*	*	*	.0		.3	
	TOT %	.1	.1	.3	.4	.1	.1	.2	.2	.0	.1	1.5	
	0-3	.1	*	.1	*	.1	.1	.2	.2	.0	.5	1.3	
5<10	4-10	.3	.2	.5	.6	.4	.3	1.0	1.0	.0		4.3	
	11-21	.1	.1	.3	.5	.2	.2	.6	.4	.0		2.7	
	22+	.0	*	.3	.3	.1	.1	.2	.1	.0		1.0	
	TOT %	.5	.4	1.4	1.4	.7	.7	2.0	1.7	.0	.5	9.2	
	0-3	1.3	.4	.9	.4	.8	1.1	2.6	2.2	.0	7.3	17.1	
10+	4-10	3.3	2.1	3.5	4.3	3.5	4.5	15.8	12.6	.0		49.6	
	11-21	.5	.4	1.6	2.8	.8	.4	7.1	5.7	.0		19.6	
	22+	*	*	.4	.7	.1	*	.3	.2	.0		1.7	
	TOT %	5.1	2.9	6.3	8.7	5.2	6.4	25.7	20.7	.0	7.3	88.4	
	TOT OBS												8915
	TOT PCT	5.7	3.5	8.2	10.6	6.1	7.2	28.1	22.7	.0	7.9	100.0	

PERIOD: (PRIMARY) 1957-1979
(OVER-ALL) 1871-1979

AREA 0006 MANZANILLO SE
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NM >9/8) AND OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00E03	.5	.6	1.3	5.0	8.2	4.2	1.6	.5	.5	.5	22.9	77.1	1959
06E09	.9	.2	2.0	7.8	11.1	5.0	2.0	.3	.1	.3	29.7	70.3	1724
12E15	1.2	.4	2.7	8.3	11.7	5.9	1.5	.4	.4	.5	33.1	66.9	1786
18E21	.5	.2	1.3	5.4	9.0	5.0	1.7	.8	.2	.2	24.4	75.6	2031
TOT	57	27	133	490	744	377	127	40	25	28	2048	5452	7500
PCT	.8	.4	1.8	6.5	9.9	5.0	1.7	.5	.3	.4	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	.4	.0	.4	.9	6.7	91.6	2287
06E09	.3	.2	.5	1.5	10.4	87.1	2161
12E15	.5	.1	.5	2.3	12.5	84.1	2216
18E21	.5	.2	.4	1.2	7.6	90.1	2490
TOT	38	14	40	133	843	8066	9154
PCT	.4	.2	.4	1.5	9.2	88.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NM >9/8),BY HOUR

HOUR (GMT)	<150 <5000	<600 <1	<1000 <2	1000+ AND5+	NM <5/8 AND 5+	TOTAL OBS
00E03	.5	2.6	7.9	16.2	76.0	1869
06E09	.9	3.3	12.0	19.4	68.6	1638
12E15	1.3	4.5	14.0	20.5	65.6	1720
18E21	.6	2.2	8.1	17.4	74.5	1950
TOT	57	223	742	1312	5123	7177
PCT	.8	3.1	10.3	18.3	71.4	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
95/99	.0	.0	*	*	*	*	.0	*	10	.1
90/94	.0	.0	.0	.1	1.3	.5	.1	.1	155	2.1
85/89	.0	.0	*	.2	4.0	12.0	3.2	.7	1455	20.2
80/84	.0	.0	.0	.1	4.2	25.0	27.8	4.8	4459	61.8
75/79	.0	.0	.0	*	.3	2.9	6.6	5.2	1083	15.0
70/74	.0	.0	.0	.0	.0	*	.2	.4	43	.6
65/69	.0	.0	.0	.0	.0	*	*	.0	5	.1
TOTAL	0	2	4	42	719	2913	2735	801	7210	100.0
PCT	.0	.0	.1	.6	10.0	40.4	37.9	11.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	*	*	*	*	*	*	.0	*
	.1	.1	.1	.2	.1	.2	.7	.4	.0	.2
	1.1	.7	1.2	2.2	1.5	1.9	6.1	3.7	.0	1.6
	3.7	2.1	4.8	6.5	3.4	4.1	17.6	13.9	.0	5.5
	1.0	.6	1.6	1.2	.8	.9	3.5	4.3	.0	1.0
	.1	*	.1	.1	*	*	.1	.1	.0	.0
	.0	.0	*	.0	*	*	*	.0	.0	.0
	6.0	3.5	7.9	10.3	5.9	7.2	28.4	22.4	.0	8.5

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	97	91	88	84	78	75	62	81.4	2329
06E09	90	86	84	82	77	75	63	81.3	219
12E15	93	86	84	81	76	74	66	80.5	22[illegible]
18E21	97	92	90	84	78	75	69	83.4	2[illegible]
TOT	97	91	88	82	77	74	63	82.3	9[illegible]

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.7	14.1	49.6	29.3	6.3	77	1869
06E09	.0	.1	4.2	34.6	47.7	13.4	82	1791
12E15	.0	.2	3.7	27.9	50.1	18.0	83	1768
18E21	.0	1.4	16.6	48.7	25.5	7.7	76	1964
TOT	0	47	733	3007	2795	830	79	7412

JUNE

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1871-1979

AREA 0006 MANZANILLO SE
17.6N 102.9W

TABLE 17

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

AIR-SEA TMP DIF	<61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	# FOG	%C FOG
17/19	.0	.0	.0	.0	.0	*	.0	*	*	4	.0	*
14/16	.0	.0	.0	.0	.0	*	*	*	*	5	.0	.1
11/13	.0	.0	.0	.0	.0	.1	.1	*	*	16	.0	.2
9/10	.0	.0	.0	*	.0	.1	.2	.2	.1	42	.0	.5
7/8	.0	.0	.0	.0	*	.2	.3	.1	.1	73	.0	.9
6	.0	.0	.0	*	.0	.2	.4	.1	.1	94	.0	1.0
5	.0	.0	.0	.0	.1	.7	.9	.4	*	155	.1	1.6
4	.0	.0	.0	.0	.2	.7	1.2	.5	.0	214	.0	2.6
3	.0	.0	.0	.0	.2	.7	1.6	.7	.1	290	.0	3.1
2	.0	.0	.0	*	.3	2.4	3.1	.2	*	464	.0	6.1
1	.0	.0	.0	.1	.5	4.0	2.8	.2	.0	522	.0	6.4
0	.0	.0	.0	.1	1.3	6.1	3.5	.1	*	1079	.0	13.2
-1	.0	.0	.0	.1	1.6	8.2	2.2	*	.0	940	.0	12.1
-2	*	.0	.0	.1	3.0	11.3	1.1	.0	*	1254	.0	15.5
-3	.0	.0	.0	.2	3.1	6.7	.5	.0	.0	853	*	10.5
-4	.0	.0	.0	.1	3.7	5.6	.2	.0	.0	777	.0	9.6
-5	.0	*	.0	.2	3.1	3.0	.1	.0	.0	521	.0	6.4
-6	.0	.0	.0	.4	2.3	1.4	*	.0	.0	344	.0	4.3
-7/-8	.0	.0	.0	.8	2.1	.8	*	.0	.0	247	.0	3.7
-9/-10	.0	.0	*	.5	.6	.2	.0	.0	.0	99	.0	1.2
-11/-13	.0	*	.1	.2	.1	*	.0	.0	.0	36	.0	.5
-14/-16	.0	*	*	*	.0	.0	.0	.0	.0	5	.0	.1
-17/-19	.0	*	*	.0	.0	.0	.0	.0	.0	4	.0	*
TOTAL	1		15		1601		1491		37		1	8093
		6		236		4276		331		8094		
PCT	*	.1	.2	2.9	22.3	52.8	18.4	2.9	.5	100.0	*	100.0

PERIOD: (OVER-ALL) 1963-1979

TABLE 1A

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.0	.1	.0	.0	.0	1.4
1-2	.4	2.0	.1	.0	.0	.0	2.5
3-4	.1	1.0	.5	.0	.0	.0	1.6
5-6	.0	.2	.2	.0	.0	.0	.5
7	.0	.1	.0	*	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	4.3	.6	*	.0	.0	6.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.0	.0	.0	.0	.0	1.2
1-2	*	.9	.2	.0	.0	.0	1.1
3-4	.1	.5	.2	.0	.0	.0	.7
5-6	.0	.0	*	.0	.0	.0	*
7	.0	.0	.0	*	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	*	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.7	1.0	.6	.3	.1	6.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.9	.1	.0	.0	.0	1.3
1-2	.0	2.1	.3	.0	.0	.0	2.4
3-4	*	.5	.8	.1	.0	.0	1.4
5-6	.0	.2	.4	.1	.0	.0	.6
7	.0	.0	.1	.1	.0	.0	.4
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.1	.1	.0	.0	.2
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	*	.0	.0	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.7	1.8	.6	.3	.1	6.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.7	.0	.0	.0	.0	.9
1-2	.1	2.1	.5	.0	.0	.0	2.7
3-4	.1	.9	1.0	.1	.0	.0	2.1
5-6	.0	.3	.4	.2	.0	.0	.9
7	.0	.1	.1	.3	.0	.0	.5
8-9	.0	.0	.3	.1	.0	.0	.5
10-11	.0	.0	.1	.1	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	*	.0	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.7	1.8	.6	.3	.1	6.8

PERIOD (OVER-ALL) 1963-1979 JUNE AREA 0006 MANZANILLO SE
TABLE 1A (CONT) 17.6N 102.9W

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

HGT	1-3	N-10	11-21	22-33	34-47	48+	PCT
<1	.3	.9	.1	.0	.0	.0	1.3
1-2	.9	1.6	.2	.0	.0	.0	2.1
3-4	.1	.4	.1	.0	.0	.0	.5
5-6	.0	.2	.1	.0	.0	.0	.3
7	.0	.0	.0	*	.0	.0	*
8-9	.0	*	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	*	.0	*
13-16	.0	.0	.0	.0	.1	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	3.1	.6	.1	.1	*	4.6

HGT	1-3	N-10	11-21	22-33	34-47	48+	PCT
<1	.4	.9	.0	.0	.0	.0	1.3
1-2	.3	3.4	.2	.0	.0	.0	3.9
3-4	.1	.4	.2	.1	.0	.0	1.3
5-6	.0	.1	.1	*	.0	.0	.2
7	.0	.0	.0	*	.0	.0	*
8-9	.0	.0	.0	.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	.1	.1
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	5.3	.8	.1	.1	.1	7.0

HGT	1-3	N-10	11-21	22-33	34-47	48+	PCT
<1	.7	3.1	*	.0	.0	.0	3.8
1-2	.9	9.6	2.6	.0	.0	.0	13.1
3-4	.1	4.8	4.6	.0	.1	.0	9.6
5-6	.0	1.0	2.0	.2	.0	.0	3.2
7	.0	.2	.5	.0	.0	.0	.7
8-9	.0	.0	.1	*	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	*	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	18.7	9.8	.2	.1	.0	30.6

HGT	1-3	N-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.6	3.0	.2	.0	.0	.0	3.9	
1-2	.4	8.6	2.2	.0	.0	.0	11.3	
3-4	.2	3.9	2.7	.2	.0	.0	7.0	
5-6	.0	.5	1.8	.1	.0	.0	2.4	
7	.0	*	.3	.1	.0	.0	.4	
8-9	.0	.1	.1	*	.0	.0	.3	
10-11	.0	.0	.0	.1	.0	.0	.1	
12	.0	.0	.0	.0	.0	.1	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.3	16.2	7.4	.4	.0	.1	25.4	43.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	N-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	12.7	11.6	.4	.0	.0	.0	24.7	
1-2	2.9	30.1	6.2	.0	.1	.0	39.3	
3-4	.6	12.5	5.6	.4	.1	.0	23.7	
5-6	.0	2.4	4.9	.6	.0	.0	7.9	
7	.0	.3	1.8	.8	.0	.0	2.2	
8-9	.0	.1	.6	.2	.1	.0	.9	
10-11	.0	.0	.1	.3	.3	.0	.7	
12	.0	.0	.0	.0	.2	.0	.2	
13-16	.0	.0	.0	.0	.2	.0	.2	
17-19	.0	.0	.0	.1	.1	.0	.1	
20-22	.0	.0	.0	.0	.1	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	16.5	57.0	23.2	2.9	.7	.2	100.0	1919

PERIOD: (OVER-ALL) 1949-1979 TABLE 1B

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.5	16.2	16.2	5.8	1.7	.4	.3	*	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3005	3
6-7	.1	2.6	7.1	6.6	2.6	1.1	.6	.2	.2	.1	*	.0	*	.0	.0	.0	.0	.0	.0	1373	5
8-9	*	1.1	2.4	3.0	2.1	1.0	.5	.2	.1	*	*	.0	*	.0	.0	.0	.0	.0	.0	707	6
10-11	.0	.6	1.4	1.0	.9	.5	.2	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	321	6
12-13	.0	.0	.7	.5	.5	.2	.2	.1	*	*	*	.0	*	.0	.0	.0	.0	.0	.0	155	7
>13	.0	*	.0	.4	.2	.1	.1	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	59	7
INDET	6.1	1.6	2.4	1.3	.6	.3	.1	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	405	4
TOTAL	774	1434	1940	1211	552	256	135	53	60	23	11	3	3	2	0	0	0	0	0	6483	4
PCT	11.6	22.0	30.2	16.9	8.6	4.0	2.1	.9	.9	.4	.2	.0	*	.0	.0	.0	.0	.0	.0	100.0	

PERIOD (FROM-TO) 1954-1974
(OVER-ALL) 1961-1974

AMER DOMI MANZANILLO MX
17.4N 102.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE: PRCP	RAIN	RAIN SHWR	DRZL	FRZG RAIN	FRZG PCPN	SNOW	OTHER FRZ PCPN	HAIL	FOG, MIST OR FROST	SMOKE OR HAZE	THDR	OTHER WEATHER: BLSN OR DRFTG SNW	FOG OR ICE FOG	MIST	FRZG FOG OR FRZG MIST	SMOKE OR HAZE	BLOWING DUST OR SAND	NO WTHR OBS
N	3.0	3.7	3.8	.0	.0	.0	.0	.0		3.2	5.	.0			.0		.0		84.
NE	4.3	.9	2.6	.0	.0	.0	.0			2.7	6.	.0							8.
E	7.1	3.9	3.0	.0	.0	.0	.1			4.5	6.				.2		.1		7.
SE	6.9	3.9	.0	.0	.0	.0	.0			1.5	2.	.0							7.
S	7.1	3.6	2.7							2.					.0		.0		84.
SW	4.5	1.5	.0	.0	.0	.0	.0			2.2	.1	.0			.0				85.
W	2.1	.9	.9	.0	.0	.0	.0			3.	1.								94.
NW	2.3	.0	.0	.0	.0	.0	.0			1.							.0		97.
VAR	.0	.0	.0	.0	.0	.0													
CALM	.4	.1	1.3																
TOT OBS TOT PCT	40.0 47.7	3.7	3.5	.0	.0	.0	.0			2.					.0		.0		84.

TABLE 2

PERCENT FREQUENCY OF [illegible]

WIND DIR (FROM)	PRECIPITATION TYPE: RAIN	RAIN SHWR	DRZL	FRZG RAIN	SNOW	OTHER FRZN PCPN	HAIL	[illegible]	[illegible]	THDR	OTHER WEATHER PHENOMENA: [illegible]	[illegible]	[illegible]	MIST	[illegible]	[illegible]	NO WTHR OBS
36033	2.0	.0	1.1	.0		.0	.0	3.	2.	.0						.0	92.
36037	4.2	1.0	1.7	.0		.0		1.	3.							.0	92.
32635	9.0	2.7	2.4	.0	.0	.0		2.	1.								90.
35031	7.1	1.7	1.1	.0	.0	.0	.0	5.	2.						.0	.0	91.
TOT PCT TOT OBS	4.1 9999	1.7	1.5		.0	.0		2.	2.						.0		94.

TABLE 3

PERCENT FREQUENCY OF WIND DIRECTION BY SPEED AND [illegible]

WND DIR	CALM	WIND SPEED KNOTS: 4-10	11-21	22-33	34+	MAX	TOTAL	[illegible]	MEAN SPD	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
N	3.8	6.7	.9	.	.0	.0		7.7	9.5	3.3	3.1	5.7	5.	.0	.0	.0	.0	
NE	3.7	6.0	.7	.	.	.		5.1	7.	2.7	2.4	3.	4.	1.5	.1	.0	.0	
E	3.7	6.7	2.3	.4	.	.		12.6	14.	7.7	3.7	2.6	2.	.0	.0	.0	.0	
SE	3.3	7.4	4.9	3.4	.4	.		19.4	23.	11.2	8.3	1.8	1.	.0	.0	.0	.0	
S	7.2	9.5	3.4	.2	.	.		7.4	9.	3.4	2.2	8.4	7.	.0	.0	.0	.0	
SW	3.1	4.2	.6	.	.0	.0		6.	7.	3.4	12.7	8.1	8.	.1	.1	.0	.0	
W	7.4	12.0	1.7	.3	.	.		15.4	19.	9.6	27.4	19.1	21.	.7	.2	.1	.0	
NW	2.5	11.4	3.5	.1	.	.0		17.4	19.	9.6	14.5	19.5	19.	1.2	.3	.1	.0	
VAR	.0	.0	.0	.0	.0	.0		.1	.1									
CALM	9.3							.3	.3									
TOT OBS	2092	5127	1745	24	4	31	9333			1492	15	2.36	31	2.36	.2	.1	.0	
TOT PCT	22.1	54.9	18.1	.3	.0	.1		100.0		100.0	16.							

TABLE 3A

WND DIR	WIND SPEED KNOTS: 0-6	7-16	17-27	28+40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
N	9.9	2.7	.1	.0	.0		7.5	5.6	3.3	5.7	15.1	5.3	
NE	3.7	2.1	.2	.	.		5.0	7.2	2.7	3.5	14.1	7.3	
E	9.5	5.6	1.5	.5	.1		21.6	10.9	6.7	10.5	17.8	15.2	
SE	5.4	6.9	2.5	.8	.1		15.4	11.6	16.2	16.1	12.1	16.9	
S	3.5	3.2	.5	.1	.		7.4	7.4	12.1	7.8	9.4	6.5	
SW	3.2	2.7	.2	.	.1		6.3	7.2	11.1	5.1	7.	4.5	
W	8.0	9.5	.5	.1	.1		18.4	8.2	11.3	7.5	12.8	7.1	
NW	7.9	9.0	.6	.	.0		17.4	7.	14.3	10.4	13.6	17.1	
VAR	.0	.0	.0	.0	.0			.0	.6	.0	.0		
CALM	9.3						9.3	.0	6.5	9.9	15.9	10.9	
TOT OBS	4633	3925	836	247	32	9673		7.0	1392	2,457	2312	2496	
TOT PCT	49.4	41.9	8.9	2.6	.3		100.0		14.4	25.4	23.9	25.8	

JULY

PERIOD: (MM/YYYY) 1954-1979
(OVERALL) 1903-1979

AREA 0006 MANZANILLO SE
19.0N 102.9W

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
0745	9.5	10.0	58.4	22.7	3.3	1.0	.1	6.9	100.0	2382
0957	9.9	11.4	55.2	19.5	3.3	.4	.2	6.2	100.0	2350
1215	10.9	13.7	54.9	17.1	2.6	.7	*	5.6	100.0	2310
1622	13.2	15.7	53.3	17.2	2.9	.6	.1	5.5	100.0	2491
TOT	671	1191	5127	1765	267	66	11	6.0		9533
PCT	9.3	12.6	54.9	19.1	3.1	.7	.1		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 (OVC)	TOTAL OBS	MEAN CLOUD COVER
N	3.1	3.0	2.7	1.3		4.8
NE	3.1	3.0	2.4	1.2		5.0
E	3.8	2.7	3.2	1.4		5.1
SE	3.2	2.0	4.9	4.4		5.9
S	.8	1.1	3.4	1.5		5.6
SW	.9	1.4	2.7	1.9		5.8
W	3.1	4.1	7.6	2.4		4.7
NW	3.6	4.4	4.5	2.6		4.7
VAR	.7	.0	.7	.0		4.0
CALM	1.9	7.9	7.6	1.2		4.5
TOT OBS	1324	1676	2907	1437	7122	5.1
TOT PCT	18.6	24.5	47.4	19.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,HM XX/8) AND OCCURRENCE OF HM XX/8 BY WIND DIRECTION

WND DIR	0-149	150-299	300-499	500-999	1000-1999	2000-3499	3500-4999	5000-6499	6500-7999	8000+	NM XX/8 ANY HGT	TOTAL OBS
N	.0	.0	.1	.4	.7	.6	.2	*	*	.1	5.3	
NE	.1	*	.1	.5	.6	.3	.1	*	*	*	4.3	
E	.2	.1	.3	1.5	2.6	.8	.2	.1	*	.1	7.1	
SE	.3	.1	.5	1.7	2.1	1.0	.5	.1	*	*	9.0	
S	.1	*	.2	.7	1.7	.4	.2	*	*	*	6.4	
SW	*	.0	.2	.4	.4	.2	.2	*	*	*	4.7	
W	.1	*	.3	.8	1.6	.3	.4	.1	.1	.1	8.2	
NW	.1	*	.1	1.0	1.6	.7	.4	.1	*	.1	12.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	*	.1	.4	.6	.2	.1	*	.1	.1	7.6	
TOT OBS	32	30	135	462	764	344	167	38	20	35	4962	7122
TOT PCT	1.0	.4	1.9	6.6	11.2	4.9	2.3	.5	.3	.4	37.1	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) ≥ 0R ≥10	≥ 0R ≥5	≥ 0R ≥2	≥ 0R ≥1	≥ 0R ≥1/2	≥ 0R ≥1/4	≥ 0R ≥5/8YD	≥ 0R ≥0
≥ 0R ≥7500	.7	.8	.8	.8	.9	.8	.9	.9
≥ 0R ≥4000	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3
≥ 0R ≥1500	3.2	3.6	3.6	3.6	3.6	3.6	3.6	3.6
≥ 0R ≥ 600	7.3	8.2	8.4	8.4	8.4	8.4	8.4	8.4
≥ 0R ≥1000	16.3	18.8	19.4	19.5	19.5	19.5	19.5	19.5
≥ 0R ≥ 400	21.3	25.3	26.2	26.3	26.4	26.4	26.5	26.5
≥ 0R ≥ 200	22.3	26.4	27.4	28.2	28.2	28.3	28.3	28.3
≥ 0R ≥ 150	22.5	27.2	28.3	28.6	28.6	28.7	28.7	28.7
≥ 0R ≥ 0	22.9	27.8	29.2	29.5	29.6	29.6	29.7	29.7
TOTAL	1675	2031	2172	2255	2161	2266	2172	2273

TOTAL NUMBER OF OBS: 7221 PCT FREQ WM XX/8: 70.3

TABLE 7A

PERCENTAGE FREQ OF ECA CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
6.0	16.7	18.9	16.4	11.4	7.6	7.0	5.7	8.4	.6	7243

PERIOD: (PRIMARY) 1954-1979
(OVER-ALL) 1901-1979

AREA 0006 MANZANILLO SE
19 0N 104.4W

TABLE A

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	*	.1	.1	*	*	*	*	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	*	*	.0	.0	.0	*	
	TOT %	.0	*	.1	.1	*	*	*	*	.0	.0	.1	
1/2<1	PCP	*	*	*	*	*	.0	*	*	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	
	TOT %	*	*	*	*	*	.0	*	*	.0	.0	.1	
1<2	PCP	*	*	.1	.1	.1	*	*	*		*	.1	
	NO PCP	*	*	*	*	*	*	*	*	.	.0	*	
	TOT %	*	*	.1	.1	.1	*	*	*		*	.1	
2<5	PCP	.1	*	.3	.3	*	.1	.1	.1	*	*	1.1	
	NO PCP	*	*	.2	.2	*	.1	.1	.1	*	*	.9	
	TOT %	.1	.1	.5	.5	.1	.1	.2	.2	.1	.1	1.9	
5<10	PCP	.2	.2	.6	.8	.4	.2	.2	.2	.0	*	2.8	
	NO PCP	.4	.4	1.0	1.4	.5	.2	.9	1.1	.0	.3	6.1	
	TOT %	.6	.5	1.7	2.1	.9	.5	1.1	1.3	.1	.3	9.0	
10+	PCP	.2	.2	.6	.8	.2	.1	.3	.2	.0	.1	2.5	
	NO PCP	6.5	5.1	9.5	11.8	5.2	5.4	16.9	15.1	.0	9.6	85.7	
	TOT %	6.7	5.3	10.1	12.6	5.4	5.6	17.2	16.2	.0	9.7	88.4	
	TOT OBS												4733
	TOT PCT	7.4	5.9	12.5	15.2	7.5	6.2	18.6	17.6	.0	9.1	100.0	

TABLE G

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	*	*	.0	*	*	*	0.0		.1	
	11-21	.0	*	*	*	.0	*	*	*	0.0		.1	
	22+	.0	.0	*	*	*	*	*	*	0.0		.1	
	TOT %	.0	*	.1	.1	*	*	*	*	0.0	.0	.3	
1/2<1	0-3	.0	.0	.0	.0	.0	*	.0	*	0.0	.0	*	
	4-10	*	*	*	.0	*	*	*	*	0.0		.1	
	11-21	*	*	*	.0	*	*	*	*	0.0		.1	
	22+	.0	.0	.0	*	*	.0	.0	*	0.0		*	
	TOT %	*	*	*	*	*	.0	*	*	0.0	.0	.1	
1<2	0-3	.0	*	*	.0	.0	*	*	.0	0.0	*	*	
	4-10	.0	.0	*	*	*	*	*	*	0.0		.1	
	11-21	*	*	.1	.1	*	*	*	*	0.0		.1	
	22+	.0	.0	*	*	.0	*	*	.0	0.0		*	
	TOT %	*	*	.2	.1	.1	*	.1	*	0.0	*	.6	
2<5	0-3	*	*	*	*	.0	*	*	*	0.0	.1	.2	
	4-10	.1	*	*	.2	*	*	.1	.1	0.0		.7	
	11-21	*	*	.2	.2	.1	*	.1	.2	0.0		.6	
	22+	*	*	.2	.2	*	*	*	*	0.0		.6	
	TOT %	.1	.1	.5	.6	.1	.2	.3	.3	0.0	.1	2.9	
5<10	0-3	.1	.1	.1	.1	.1	*	.1	.1	.0	.3	1.0	
	4-10	.4	.3	.6	.6	.4	.3	.7	.4	0.0		4.0	
	11-21	.1	.1	.6	.6	.2	.2	.2	.3	0.0		2.5	
	22+	.0	*	.6	.7	.1	*	*	*	0.0		1.4	
	TOT %	.6	.5	1.7	2.1	.9	.6	1.1	1.1	0.0	.3	9.0	
10+	0-3	1.7	1.1	1.2	1.1	1.1	1.0	2.3	2.4	.0	6.6	20.7	
	4-10	4.3	3.7	6.0	6.5	4.1	3.4	11.2	10.4	0.0		55.1	
	11-21	.6	.5	2.4	3.4	1.1	.6	3.4	3.0	0.0		15.4	
	22+	*	*	.5	.6	.1	*	.2	.1	0.0		1.8	
	TOT %	6.6	5.3	10.1	12.3	6.4	5.0	17.0	15.8	0.0	6.8	87.8	
	TOT OBS												9290
	TOT PCT	7.4	6.0	12.5	15.1	7.4	6.2	18.5	17.5	.0	9.2	100.0	

PERIOD: [illegible] 1956-1974
[illegible] 1961-1974

[illegible] 30

AREA 3006 MANZANILLO SE
[illegible] 102.4W

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,HM [illegible]) AND OCCURRENCE OF HM [illegible] BY HOUR

HOUR (LST)	[illegible]	[illegible]	[illegible]	300	600	1000	2000	3000	5000	6000	8000	TOTAL	NO. OF OBS	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	23	HGT
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

JULY

PERIOD: (PRIMARY) 1954-1979
(OVER-ALL) 1901-1979

AREA 0006 MANZANILLO SE
17.6N 102.9W

TABLE 17

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

AIR-SEA TMP DIF	65 66	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	* FOG	=0 FOG
14/1-	.0	.0	.0	.0	*	.0	*	*	4	.0	*
11/13	.0	.0	.0	.0	*	*	*	.1	16	.0	.2
9/10	.0	.0	.0	*	*	.1	.1	.1	32	.0	.4
7/8	.0	.0	.0	*	.1	.2	.4	.1	78	.0	1.0
6	.0	.0	.0	.0	.1	.2	.5	.0	65	.0	.8
5	.0	.0	.0	*	.2	.6	.9	.1	154	*	1.9
4	.0	.0	*	*	.4	1.5	.6	*	226	.0	2.8
3	.0	.0	.0	.1	.4	1.7	.7	.0	237	.0	2.9
2	.0	.0	*	*	1.4	3.7	.5	.0	459	.0	5.6
1	.0	.0	.0	.1	2.0	3.9	.2	.0	508	.0	6.2
0	.0	.0	*	.3	7.8	5.6	.1	.0	1136	.0	13.9
-1	.0	.0	*	.5	6.3	4.0	.1	.0	1050	.0	12.8
-2	*	*	.1	1.0	11.7	1.8	*	.0	1192	*	14.5
-3	.0	.0	*	1.3	8.7	1.0	*	.0	900	*	11.0
-4	.0	*	.1	2.5	6.7	.3	*	.0	785	*	9.6
-5	.0	*	.1	2.6	3.5	.4	.0	.0	546	.0	6.7
-6	.0	.0	.1	2.4	1.2	*	.0	.0	306	.0	3.7
-7/-8	.0	*	.6	2.3	1.0	*	.0	.0	321	.0	3.9
-9/-10	.0	.0	.4	.6	.1	*	.0	.0	114	.0	1.4
-11/-13	.0	*	.4	.2	*	.0	.0	.0	52	.0	.6
-14/-19	*	*	*	*	.0	.0	.0	.0	7	.0	.1
TOTAL	2	9	176	1141	4294	2076	360	90	8196	7	8189
PCT	*	.1	2.1	13.9	53.6	25.3	4.4	.5	100.0	.1	99.9

PERIOD: (OVER-ALL) 1963-1979

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	.7	1.4	.0	.0	.0	.0	2.1	.9	1.2	.1	.0	.0	.0	2.2
1-2	.3	3.0	.3	.0	.0	.0	3.6	.4	2.0	.2	.0	.0	.0	2.7
3-4	.1	.4	.3	.1	.0	.0	1.1	.1	.5	.4	.0	.0	.0	.9
5-6	.0	.1	.3	.0	.0	.0	.4	.0	.1	.1	.0	.0	.0	.2
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	*	.0	.0	*
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	5.2	1.2	.1	.0	.0	7.5	1.4	3.8	.8	*	.0	.0	6.0

	E							SE						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.6	.0	.0	.0	.0	2.2	.7	1.4	.1	.0	.0	.0	2.1
1-2	.3	2.5	.8	.0	.0	.0	3.6	.4	3.3	.8	.0	.0	.0	4.5
3-4	.1	1.7	.9	.2	.0	.0	2.8	.1	1.1	1.9	.2	.0	.0	3.1
5-6	.0	.4	1.1	.3	.0	.0	1.8	.1	.4	1.4	.3	.0	.0	2.1
7	.0	.1	.5	.4	.0	.0	1.1	.0	.1	.5	.3	.1	.0	.9
8-9	.0	*	.1	.1	.0	.0	.3	.0	*	.3	.2	.1	.0	.6
10-11	.0	.0	.0	.2	*	.0	.2	.0	.0	.1	.1	*	.0	.2
12	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	*	*	*	.1
13-16	.0	.0	.1	.1	.1	.0	.2	.0	.0	.0	.1	.1	.0	.1
17-19	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	*	.0	.0	*
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	6.3	3.5	1.5	.2	.0	12.5	1.2	6.3	4.9	1.2	.2	*	13.8

PERIOD: (OVER-ALL) 1963-1979 JULY AREA CODE MANZANILLO SE

TABLE 18 (CONT) 19.0N 102.9W

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

S %

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.1	.0	.0	.0	.0	1.7	.6	1.3	.0	.0	.0	.0	1.9
1-2	.4	2.4	.4	.0	.0	.0	3.2	.2	3.0	.4	.0	.0	.0	3.6
3-4	.1	1.0	.6	.0	.0	.0	1.7	.0	1.1	.2	.0	.0	.0	1.3
5-6	.0	.3	.2	.0	.0	.0	.5	.0	.1	.2	.0	.0	.0	.4
7	.0	.0	.1	•	.0	.0	.1	.0	.0	.1	.1	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.1	.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	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	4.8	1.3	.2	•	•	7.5	.8	5.6	1.0	.1	.0	.0	7.5

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	TOTAL PCT
<1	1.1	1.6	.1	.0	.0	.0	2.9	1.1	2.3	.1	.0	.0	.0	3.5	
1-2	.6	7.5	1.5	.0	.0	.0	9.6	.6	6.6	1.1	.0	.0	.0	8.7	
3-4	.1	2.2	1.6	.0	.0	.0	3.9	.1	2.4	2.5	.0	.0	.0	4.6	
5-6	•	.5	.4	.0	•	.0	1.5	•	.6	.4	.1	•	.0	1.0	
7	.1	.0	.2	.1	.0	.0	.3	.0	.1	.2	.0	.0	.0	.2	
8-9	.0	.0	.1	.2	.0	.0	.3	.0	.1	.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	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.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	11.8	4.5	.3	•	.0	18.5	2.1	11.7	3.9	.1	•	.0	17.8	92.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

KT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	10.2	11.9	.4	.0	.0	.0	28.4	
1-2	4.1	29.8	5.5	.0	.0	.0	39.4	
3-4	.4	10.3	7.6	.4	.0	.0	18.8	
5-6	.1	2.2	4.7	•	.1	.0	7.7	
7	.0	.2	1.5	1.1	.1	.0	2.9	
8-9	.0	.2	.7	.5	.1	.0	1.3	
10-11	.0	.0	.1	.3	.1	.0	.5	
12	.0	.0	.1	.1	.2	.0	.4	
13-16	.0	.0	.1	.2	.1	.0	.4	
17-19	.0	.0	.0	.1	.1	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.1	.0	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								2000
TOT PCT	21.0	54.7	20.5	3.3	.5	.1	100.0	

PERIOD: (OVER-ALL) 1949-1979 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	6.2	15.9	14.2	5.0	1.9	.7	.3	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	2874	3
6-7	.2	2.9	7.6	6.4	3.1	1.3	.8	.2	.3	.1	•	•	•	.0	.0	.0	.0	.0	.0	1506	5
8-9	•	.9	3.2	3.0	2.1	1.0	.6	.3	.3	.1	•	.0	•	.0	.0	.0	.0	.0	.0	753	6
10-11	.0	.1	1.3	1.1	1.1	.5	.3	.3	.2	.2	•	•	.1	•	.0	.0	.0	.0	.0	386	6
12-13	.0	.0	.4	.5	.4	.2	.1	.1	•	•	•	•	•	•	.0	.0	.0	.0	.0	193	6
>13	.0	.0	•	.4	.3	.1	.2	•	•	•	•	•	.0	•	.0	.0	.0	.0	.0	72	8
INDET	6.4	1.5	1.6	1.2	.5	.1	.1	•	.1	•	.0	•	.0	.0	.0	.0	.0	.0	.0	766	7
TOTAL	828	1612	1860	1165	606	262	152	66	77	33	8	7	2	2	.0	.0	.0	.0	.0	6480	•
PCT	12.8	24.8	28.7	18.0	9.4	4.0	2.3	1.0	1.2	.5	.1	.1	•	•	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1954-1979
(OVER-ALL) 1960-1979

AREA 0006 MANZANILLO SE
17.7N 102.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR STMS	FOG NO PCPN	FOG W PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	% OBS WEA
N	3.3	1.0	.4	.0	.0	.0	.2	5.0	1.4	4.2	.0	.0	.2	.2		94.1
NE	4.8	.8	1.7	.0	.0	.0	.0	7.4	2.0	6.7	.0	.0	.1	.0		94.1
E	7.2	3.0	1.9	.0	.0	.0	.0	12.0	5.3	6.6	.1	.0	.3	.1		75.8
SE	6.3	3.7	1.2	.0	.0	.0	.0	11.1	4.6	4.9	.0	.0	.3	.1		75.5
S	5.1	3.2	2.1	.0	.0	.0	.0	10.2	4.3	4.4	.0	.0	.4	.2		82.6
SW	3.2	2.9	.4	.0	.0	.0	.0	7.0	2.0	6.2	.2	.0	.3	.0		94.6
W	2.6	1.5	.2	.0	.0	.0	.0	4.7	1.2	7.0	*	.0	.3	.1		97.0
NW	2.6	1.1	.3	.0	.0	0	.0	4.0	.8	7.4	.2	.0	.2	.1		97.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	1.6	1.1	.2	.0	.0	.1	.0	2.9	1.5	7.9	.0	.0	.7	.2		97.0
TOT PCT	6.0	2.1	1.0	.0	.0	.0	*	7.0	2.4	6.6	.1	.0	.3	.1		93.6
TOT OBS:	4615															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR STMS	FOG NO PCPN	FOG W PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	% OBS WEA
00E03	1.9	1.2	.5	.0	.0	.0	.0	3.6	1.5	1.2	.1	.0	.3		.2	93.3
06E09	3.6	2.5	1.2	.0	.0	.0	.0	7.1	2.8	14.4	.1	.0	.4		.1	75.6
12E15	6.2	3.2	1.5	.0	.0	.0	*	12.6	5.6	12.4	.0	.0	.3		.1	71.7
18E21	3.0	1.5	.7	.0	.0	.0	.0	5.2	2.5	.5	.1	.0	.2		.1	91.5
TOT PCT	4.1	2.1	1.0	.0	.0	.0	*	7.0	2.6	6.9	.1	.0	.3		.1	83.5
TOT OBS:	8009															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)					
WND DIR	0-3	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	4.4	1.6	*	.0	.0		6.4	6.4	2.3	5.8	5.6	9.1	10.9	5.7	7.3	6.2
NE	1.0	3.5	.7	.1	*	*		5.3	7.1	1.5	2.5	4.0	2.1	9.2	7.5	6.4	7.9
E	1.3	6.9	3.1	.6	.2	*		12.0	10.2	4.2	7.3	9.7	9.2	15.9	17.6	16.2	14.6
SE	1.5	6.2	5.3	1.2	.1	*		14.3	10.9	14.9	15.0	15.9	14.0	12.3	20.5	19.3	22.2
S	1.2	4.4	3.3	.2	*	*		9.2	8.3	10.6	9.5	7.0	10.7	4.6	6.7	5.9	9.1
SW	1.1	4.1	.8	.1	*	.0		6.0	7.1	11.6	8.4	5.1	11.8	2.8	5.6	3.9	5.8
W	2.7	12.4	3.8	.1	*	*		19.1	7.9	29.8	26.1	21.7	25.9	12.4	14.2	12.6	15.7
NW	2.5	10.8	3.8	.1	*	.0		17.2	8.1	24.8	18.6	19.2	19.2	10.8	21.9	15.6	15.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.5							10.5	.0	6.0	4.3	12.5	4.0	13.1	5.4	12.4	2.8
TOT OBS	2132	4979	1764	224	33	3	9134		7.7	2298	190	1986	133	1986	241	2304	276
TOT PCT	23.2	54.4	19.3	2.5	.4	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.1	2.1	.2	*	.0		6.4	6.4	2.5	5.5	10.4	7.3
NE	3.1	1.8	.3	*	*		5.3	7.1	1.5	3.8	9.0	6.5
E	4.3	5.7	1.2	.3	.1		12.0	10.2	4.3	9.6	15.5	16.1
SE	5.4	7.4	2.5	.6	*		16.3	10.9	10.8	15.4	13.7	18.5
S	3.5	3.2	.4	.1	*		7.2	8.3	10.8	7.3	4.6	6.0
SW	3.4	2.4	.1	*	.0		6.0	7.1	11.4	5.5	3.2	4.1
W	8.9	9.5	.6	.1	*		19.1	7.9	29.6	21.6	12.6	13.1
NW	7.8	8.7	.7	*	.0		17.2	8.1	15.1	19.2	19.3	15.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	10.5						10.5	.0	6.0	12.1	12.2	11.4
TOT OBS	4643	3783	544	92	11	9120		7.7	2308	2049	2227	2486
TOT PCT	51.3	41.5	6.0	1.0	.1		100.0		100.0	110.0	100.0	100.0

AUGUST

PERIOD: (PRIMARY) 1954-1979
(OVER-ALL) 1900-1979

AREA CODE MANZANILLO SE
19.3N 102.4W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	6.0	11.8	56.9	22.2	2.7	.2	.2	8.3	100.0	2308
06&09	12.1	11.1	54.7	19.4	2.3	.3	.1	7.7	100.0	2099
12&15	12.2	12.2	54.7	18.1	2.5	.4	*	7.5	100.0	2227
18&21	11.9	15.1	52.3	17.8	2.4	.6	.0	7.3	100.0	2486
TOT	960	1152	4979	1764	224	33	8	7.7		9120
PCT	10.5	12.6	54.6	19.3	2.5	.4	.1		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.6	1.7	2.2	1.0		4.6
NE	1.0	1.1	1.9	1.0		4.9
E	1.6	2.4	4.5	3.5		5.5
SE	1.9	3.0	7.2	4.2		5.6
S	.9	1.6	3.1	1.7		5.4
SW	.6	1.7	2.4	1.1		5.1
W	4.4	5.5	7.3	2.3		4.5
NW	4.3	4.5	5.9	1.9		4.3
VAR	.*	.0	.0	.0		.0
CALM	3.0	2.*	3.6	1.1		4.2
TOT OBS	1355	1724	2685	1275	7039	4.9
TOT PCT	19.2	24.5	38.1	18.1	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	&M <5/8 ANY HGT	TOTAL OBS
N	.1	*	.1	.0	.5	.2	.1	*	*	*	4.4	
NE	*	.0	.1	.3	.5	.3	.1	.0	*	*	3.4	
E	.2	.1	.4	1.*	1.7	.6	.3	.1	*	*	7.2	
SE	.3	.2	.5	1.8	2.1	.8	.4	.1	*	*	10.2	
S	.1	*	.2	.6	.6	.4	.2	.1	*	*	4.8	
SW	.1	*	.1	.5	.8	.2	*	*	*	*	4.2	
W	.1	.1	.2	1.1	1.6	.6	.2	.1	.1	*	5.4	
NW	.1	.1	.2	.7	1.4	.5	.2	.1	*	*	3.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	*	.1	.5	.8	.3	.1	*	*	*	6.5	
TOT OBS	67	41	131	526	723	277	113	39	17	18	5089	7039
TOT PCT	1.0	.6	1.9	7.4	10.3	3.	1.6	.6	.2	.3	72.3	100.0

TABLE 7

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

CEILING (FEET)	VSBY (&M) : GR >10	: GR >5	: GR >2	: GR >1	: GR >1/2	: GR >1/4	: GR >5040	: GR >0
: GR >6500	.5	.5	.6	.6	.6	.6	.6	.6
: GR >5000	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
: GR >3500	2.6	2.7	2.7	2.7	2.7	2.7	2.7	2.7
: GR >2000	5.8	6.5	6.6	6.6	6.6	6.6	6.6	6.6
: GR >1000	16.0	16.4	16.8	16.9	16.9	16.9	16.9	16.9
: GR >600	19.2	23.5	24.1	24.3	24.3	24.3	24.3	24.3
: GR >300	20.3	25.2	25.9	26.1	26.1	26.1	26.2	26.2
: GR >150	20.5	25.6	26.3	26.6	26.6	26.7	26.7	26.7
: GR > _	20.7	26.1	27.1	27.6	27.6	27.5	27.6	27.7
TOTAL	1508	1901	1960	1992	1996	2002	2008	2011

TOTAL NUMBER OF OBS: 7232 PCT FREQ &M <5/8: 72.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	*	TOTAL OBS
6.1	17.1	21.6	16.1	11.1	6.7	6.9	5.3	8.4	.6	7702

AUGUST

PERIOD* (PRIMARY) 1954-1979
(OVER-ALL) 1900-1979

AREA 0006 MANZANILLO SE
17.7N 102.9W

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	*	*	.1	*	.0	*	.0	.0	.0	.2	
	NO PCP	*	*	.0	*	.0	.0	.0	*	.0	.0	.1	
	TOT %	*	*	*	.1	*	.0	*	*	.0	.0	.3	
1/2<1	PCP	.0	*	*	.0	.0	.0	.0	.0	.0	.0	*	
	NO PCP	*	.0	.0	.0	*	.0	*	.0	.0	*	*	
	TOT %	*	*	*	.0	*	.0	*	.0	.0	*	.1	
1<2	PCP	*	*	.1	.1	*	.0	*	*	.0	*	.3	
	NO PCP	.0	.0	.0	*	*	.0	*	*	.0	.0	.1	
	TOT %	*	*	.1	.1	*	.0	*	*	.0	*	.4	
2<5	PCP	*	*	.3	.2	.1	.1	.1	.1	.0	*	.9	
	NO PCP	*	*	.1	.1	*	*	*	.1	.0	*	.5	
	TOT %	*	*	.3	.4	.1	.1	.1	.1	.0	.1	1.3	
5<10	PCP	.1	.2	.6	.9	.3	.2	.4	.3	.0	.1	3.1	
	NO PCP	.3	.2	.9	1.3	.5	.4	.9	.9	.0	.3	5.7	
	TOT %	.4	.4	1.5	2.2	.8	.7	1.3	1.2	.0	.4	8.8	
10+	PCP	.2	.2	.4	.5	.3	.1	.4	.3	.0	.1	2.5	
	NO PCP	5.7	4.5	9.5	13.0	6.0	5.2	17.4	15.6	.0	9.5	86.6	
	TOT %	5.9	4.6	9.9	13.6	6.3	5.4	17.8	15.9	.0	9.7	89.1	
	TOT OBS												8602
	TOT PCT	6.3	5.1	11.9	16.4	7.3	6.1	19.3	17.3	.0	10.2	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	*	*	*	.0	.0	.1	*	.0		.2	
	11-21	.0	.0	*	.1	*	.0	.0	.0	.0		.1	
	22+	.0	*	*	*	*	.0	*	.0	.0		.1	
	TOT %	*	*	*	.1	*	.0	.1	*	.0	.0	.4	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	.0	*	*	.0	.0	.0	*	.0	.0		*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	*	*	*	.0	*	.0	*	.0	.0		.1	
	TOT %	*	*	*	.0	*	.0	*	.0	.0	*	.1	
1<2	0-3	.0	.0	*	*	.0	.0	.0	.0	.0	*	*	
	4-10	.0	.0	*	*	*	*	*	*	.0		.1	
	11-21	.0	*	*	.1	*	.0	*	*	.0		.2	
	22+	*	*	.1	.1	.0	.0	.0	*	.0		.2	
	TOT %	*	*	.1	.2	.1	*	.1	.1	.0	*	.5	
2<5	0-3	*	*	*	*	.0	.0	*	*	.0	.1	.2	
	4-10	.1	*	.1	.1	.1	*	.1	.1	.0		.6	
	11-21	*	*	.1	.2	*	.1	*	*	.0		.5	
	22+	.0	*	.1	.1	*	.0	.0	*	.0		.3	
	TOT %	.1	.1	.4	.4	.1	.1	.1	.1	.0	.1	1.6	
5<10	0-3	*	*	.1	.1	.1	.1	.2	.1	.0	.4	1.0	
	4-10	.2	.2	.5	.7	.4	.3	.7	.6	.0		3.9	
	11-21	.1	.1	.7	.9	.3	.2	.3	.4	.0		3.0	
	22+	*	*	.3	.4	*	*	.1	*	.0		.9	
	TOT %	.4	.4	1.6	2.2	.8	.6	1.3	1.2	.0	.4	8.8	
10+	0-3	1.3	.9	1.2	1.4	1.1	1.0	2.5	2.3	.0	9.8	21.6	
	4-10	4.0	3.1	6.1	7.3	3.9	3.7	11.6	10.2	.0		49.9	
	11-21	.5	.5	2.3	4.1	1.0	.5	3.5	3.4	.0		15.8	
	22+	*	*	.3	.7	.2	*	.1	.1	.0		1.4	
	TOT %	5.9	4.6	9.9	13.5	6.2	5.3	17.7	16.0	.0	9.8	98.7	
	TOT OBS												8572
	TOT PCT	6.4	5.1	12.0	16.4	7.2	6.0	19.2	17.3	.0	10.3	100.0	

AUGUST

PERIOD: (PRIMARY) 1954-1979
(OVER-ALL) 1900-1979

AREA 0006 MANZANILLO SE
17.7N 102.9W

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	MM <5/8 ANY HGT	TOTAL OBS
00E03	.6	.5	.8	5.5	9.2	5.9	1.6	.5	.3	.5	23.0	77.0	1998
06E09	1.1	.5	1.9	6.8	11.2	3.6	1.4	.5	.1	.4	27.3	72.7	1686
12E15	1.2	.7	3.1	11.0	11.2	4.1	1.6	.5	.1	.2	33.8	66.2	1764
18E21	.7	.5	1.6	5.9	8.5	3.6	1.6	.7	.4	.2	23.6	76.4	2118
TOT	67	41	135	543	748	286	116	40	18	22	2016	5550	7566
PCT	.9	.5	1.8	7.2	9.9	3.8	1.5	.5	.2	.3	26.6	73.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.1	.1	.2	.7	5.7	93.2	2291
06E09	.3	.2	.6	1.8	9.4	87.7	2131
12E15	.5	*	1.0	2.4	13.7	82.3	2233
18E21	.5	.1	.4	1.3	6.6	91.2	2514
TOT	33	10	49	141	801	8135	9169
PCT	.4	.1	.5	1.5	8.7	88.7	100.0

TABLE 12

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

HOUR (GMT)	<150 <500YD	<600 <1	<1000 <5	1000+ AND5+	MM <5/8 AND 5+	TOTAL OBS
00E03	.6	1.9	7.9	16.0	76.1	1924
06E09	1.1	3.8	11.8	17.3	71.0	1615
12E15	1.3	5.4	17.7	17.7	64.5	1698
18E21	.7	2.9	9.7	15.0	75.2	2035
TOT	67	249	841	1194	5237	7272
PCT	.9	3.4	11.6	16.4	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
95/99	.0	*	*	.1	.1	.1	.0	.0	19	.3
90/94	.0	.0	*	.3	1.8	1.2	.3	.1	262	3.7
85/89	.0	.0	*	.4	5.8	19.0	6.4	1.1	2317	32.5
80/84	.0	.0	*	.2	2.6	21.7	27.3	4.1	3981	55.8
75/79	.0	.0	.0	.0	*	.6	3.3	3.7	538	7.5
70/74	.0	.0	.0	.0	.0	.0	.1	.2	16	.2
65/69	.0	.0	.0	.0	.0	.0	.0	*	1	*
TOTAL	0	1	5	65	732	3029	2655	647	7134	100.0
PCT	.0	*	.1	.9	10.3	42.5	37.2	9.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	*	*	.1	*	.0	*	.1	.0	.1
.2	.2	.4	.5	.2	.2	.8	.8	.0	.4
1.6	1.0	2.8	4.2	2.1	2.3	8.4	6.6	.0	3.4
4.0	3.3	7.4	9.6	4.1	3.0	9.0	9.1	.0	6.3
.5	.5	1.6	1.9	.9	.4	.8	.6	.0	.3
*	*	*	.1	*	*	*	*	.0	.0
.0	.0	.0	.0	.0	*	.0	.0	.0	.0
6.3	5.0	12.3	16.3	7.2	6.0	19.2	17.2	.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
00E03	99	92	90	85	80	77	68	84.9	2353
06E09	97	88	86	83	78	75	72	82.7	2161
12E15	90	86	85	82	77	75	69	81.6	2294
18E21	99	93	90	85	79	76	68	85.0	2551
TOT	99	92	89	84	78	75	68	83.6	9359

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.9	14.8	51.7	26.9	5.7	77	1873
06E09	.0	.5	3.7	39.4	46.4	10.0	81	1753
12E15	.0	.1	2.9	27.9	53.7	15.4	83	1755
18E21	.0	2.3	17.7	49.5	24.4	6.1	76	2011
TOT	0	72	750	3146	2750	674	79	7392

AUGUST

PERIOD: (PRIMARY) 1954-1979
(OVER-ALL) 1900-1979

AREA 0606 MANZANILLO SE
17.7N 102.9W

TABLE 17

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

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	% FOG	NO FOG
17/19	.0	.0	.0	.0	.0	.0	*	.0	1	.0	*
14/16	.0	.0	.0	.0	.0	*	*	.0	2	.0	*
11/13	.0	.0	.0	.0	.0	*	*	.1	14	.0	.2
9/10	.0	.0	.0	.0	.1	.1	.2	.1	53	.0	.4
7/8	.0	.0	.0	*	.1	.3	.4	.2	72	.0	.9
6	.0	.0	*	.0	*	.2	.5	.1	63	.0	.8
5	.0	.0	.0	.0	.2	.6	.8	.1	128	.0	1.6
4	.0	.0	.0	*	.3	1.0	1.0	*	190	.0	2.4
3	.0	.0	.0	*	.2	1.6	1.1	*	228	.0	2.9
2	.0	.0	*	.1	1.3	3.3	.7	.0	434	*	5.4
1	.0	.0	*	*	2.4	4.6	.4	*	516	.0	6.5
0	.0	.0	*	.2	5.2	7.0	.2	.0	1000	*	12.5
-1	.0	.0	*	.3	6.9	4.9	.2	.0	976	.0	12.3
-2	.0	.0	*	.7	10.3	3.0	.0	.0	1116	.0	14.0
-3	.0	.0	.0	1.1	8.3	1.7	*	.0	889	.0	11.2
-4	.0	.0	*	1.7	8.1	.6	.0	.0	832	*	10.4
-5	.0	.0	.1	2.2	4.7	.3	.0	.0	584	*	7.3
-6	.0	.0	.1	2.1	2.1	.1	.0	.0	348	.0	4.4
-7/-8	.0	.0	.4	2.7	1.4	.1	.0	.0	364	.0	4.6
-9/-10	.0	*	.4	.8	.2	.0	.0	.0	112	.0	1.4
-11/-13	.0	*	.7	.3	.1	.0	.0	.0	53	.0	.7
-14/-16	.0	*	*	*	.0	.0	.0	.0	9	.0	.1
-17/-19	*	*	.0	.0	.0	.0	.0	.0	2	.0	*
TOTAL	1		112		4056		430			5	7961
		6		980		2328		52	7966		
PCT	*	.1	1.4	12.3	50.9	29.2	5.4	.7	100.0	.1	99.9

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.3	.0	.0	.0	.0	1.8
1-2	.4	2.4	*	.0	.0	.0	2.9
3-4	.0	.6	.2	.0	.0	.0	.8
5-6	.0	.1	.1	.0	.0	.0	.2
7	.0	*	.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	.9	4.6	.3	.1	.0	.0	5.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.9	*	.0	.0	.0	1.5
1-2	.5	3.8	1.1	.0	.0	.0	5.5
3-4	*	1.5	1.7	.0	.0	.0	3.3
5-6	.0	.4	1.4	.1	*	.0	1.9
7	.0	.2	.4	.3	.0	.0	.8
8-9	.0	.0	.1	.2	.0	.0	.3
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	*	*	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	6.9	4.8	.8	*	*	13.7

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.2	.0	.0	.0	.0	1.5
1-2	.2	1.9	.3	.0	.0	.0	2.5
3-4	.0	.5	.4	.0	.0	.0	.9
5-6	.0	*	.1	*	.0	.0	.1
7	.0	*	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	8.1	7.1	1.6	*	.0	18.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.5	*	.0	.0	.0	2.2
1-2	.4	3.7	1.4	.0	.0	.0	5.4
3-4	.2	2.4	2.8	.2	.0	.1	5.5
5-6	*	.4	1.7	.4	.0	.0	2.5
7	.0	.1	.7	.5	.0	.0	1.3
8-9	.0	.1	.2	.2	.0	.0	.5
10-11	.0	.0	.1	.2	.0	.0	.4
12	.0	.0	.0	.1	*	.0	.1
13-16	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	8.1	7.1	1.6	*	.0	18.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.5	*	.0	.0	.0	2.2
1-2	.4	3.7	1.4	.0	.0	.0	5.4
3-4	.2	2.4	2.8	.2	.0	.1	5.5
5-6	*	.4	1.7	.4	.0	.0	2.5
7	.0	.1	.7	.5	.0	.0	1.3
8-9	.0	.1	.2	.2	.0	.0	.5
10-11	.0	.0	.1	.2	.0	.0	.4
12	.0	.0	.0	.1	*	.0	.1
13-16	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	8.1	7.1	1.6	*	.0	18.1

AUGUST

PERIOD: (OVER-ALL) 1963-1979 AREA 0006 MANZANILLO SE

TABLE 18 (CONT) 17.7N 102.9W

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.6	.0	.0	.0	.0	1.0
1-2	.3	2.6	.2	.0	.0	.0	3.2
3-4	*	1.3	.7	.0	.0	.0	2.0
5-6	*	.5	.4	.1	.0	.0	1.0
7	.0	.1	.4	.1	.0	.0	.6
8-9	.0	*	*	.1	.0	.0	.1
10-11	.0	.0	*	*	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	*	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	5.2	1.8	.3	.0	.0	8.0

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.6	*	.0	.0	.0	.8
1-2	.2	2.2	.2	.0	.0	.0	2.7
3-4	*	.7	.4	.0	.0	.0	1.1
5-6	*	.2	.1	.0	.0	.0	.4
7	.0	.0	.1	*	.0	.0	.1
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	*	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.8	1.0	.1	.0	.0	5.2

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	2.2	*	.0	.0	.0	3.4
1-2	.9	4.9	1.4	.0	.0	.0	7.1
3-4	.2	3.2	1.8	*	.0	.0	5.3
5-6	.0	.4	.7	.1	.0	.0	1.1
7	.0	.1	.4	.2	*	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	10.8	4.3	.3	*	.0	17.7

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.0	2.0	*	.0	.0	.0	3.1	
1-2	.8	5.5	1.5	.1	.0	.0	7.8	
3-4	.1	2.2	1.8	*	.0	.0	4.2	
5-6	.0	.2	.9	.1	.0	.0	1.2	
7	.0	.0	.2	*	*	.0	.3	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.9	10.0	4.4	.2	*	.0	16.6	90.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	15.2	10.3	.2	.0	.0	.0	25.7	
1-2	4.6	26.9	6.0	.0	.0	.0	37.5	
3-4	.6	12.1	9.5	.3	.0	.0	22.4	
5-6	.1	2.2	5.1	.8	*	.0	8.3	
7	.0	.6	2.2	1.1	.1	.0	4.0	
8-9	.0	.1	.4	.5	.0	.0	1.0	
10-11	.0	.0	.2	.3	.0	.0	.6	
12	.0	.0	.0	.1	*	.0	.2	
13-16	.0	.0	.1	*	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	*	*	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	20.5	52.2	23.7	3.3	.2	*	100.0	2119

PERIOD: (OVER-ALL) 1949-1979 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	6.1	15.8	12.9	5.0	1.9	.7	.5	.1	.2	*	*	.0	.0	.0	.0	.0	.0	.0	.0	2762	3
6-7	.2	2.8	7.6	7.0	2.9	1.2	.9	.5	.3	*	*	.0	*	.0	.0	.0	.0	.0	.0	1501	5
8-9	*	1.1	3.4	3.4	2.6	1.2	.8	.3	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	836	6
10-11	.0	.5	1.3	1.1	.6	.6	.3	.1	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	302	6
12-13	.0	.0	.7	.4	.4	.2	.1	*	*	.0	*	.0	.0	.0	*	.0	.0	.0	.0	118	6
>13	.0	*	.0	.5	.2	.1	.1	*	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	58	7
INDET	7.2	1.5	1.7	1.3	.6	.3	.1	*	*	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	823	2
TOTAL	871	1391	1774	1196	590	269	183	66	55	16	8	0	1	1	1	0	0	0	0	6422	*
PCT	13.6	21.7	27.6	18.6	9.2	4.2	2.8	1.0	.9	.2	.1	.0	*	*	*	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1554-1979
(OVER-ALL) 1885-1979

AREA 0006 MANZANILLO SE
17.6N 102.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	6.1	2.8	.9	.0	.0	.0	.0	9.4	3.2	4.7	.0	.0	.4	.0	.0	82.5
NE	8.0	3.8	2.9	.0	.0	.0	.0	14.4	5.3	4.9	.0	.0	.5	.0	.1	75.0
E	10.1	4.7	1.7	.0	.0	.0	.0	16.3	7.3	3.7	.0	.0	.1	.1	.1	72.6
SE	9.2	4.6	2.4	.0	.0	.0	.0	15.9	6.5	3.3	.1	.1	.1	*	*	74.2
S	7.1	4.3	2.0	.0	.0	.0	.0	13.0	3.5	2.4	.0	.0	.0	.1	.1	81.4
SW	7.1	3.5	2.9	.0	.0	.0	.0	13.2	5.7	3.2	.0	.0	.3	.0	.0	77.8
W	4.4	2.0	1.1	.0	.0	.0	.0	7.4	4.4	5.1	*	.0	.2	.0	.0	83.5
NW	3.9	1.8	.6	.0	.0	.0	.0	6.3	2.9	5.7	.1	.0	.1	.1	.1	84.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.2	1.2	1.0	.0	.0	.0	.0	3.2	1.7	6.8	.1	.0	.4	.0	.0	87.9
TOT PCT	6.2	3.1	1.6	.0	.0	.0	.0	10.7	4.6	4.5	*	*	.2	*	*	80.2
TOT OBS:	8467															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00E03	4.4	2.2	1.4	.0	.0	.0	.0	8.0	3.0	1.1	.0	.0	.2	.0	.0	87.9
06E09	6.5	3.5	1.5	.0	.0	.0	.0	11.3	5.5	10.5	*	.0	.2	.1	.1	72.8
12E15	9.3	4.3	1.9	.0	.0	.	.0	15.2	6.7	7.9	.1	*	.2	.0	.0	70.7
18E21	4.8	2.4	1.5	.0	.0	.	.0	8.5	3.5	.4	.1	.0	.3	*	*	87.1
TOT PCT	6.2	3.1	1.6	.0	.0	.0	.0	10.6	4.6	4.8	.1	*	.2	*	*	80.0
TOT OBS:	8711															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	3.3	.5	*	.0	.0		5.2	6.4	2.0	4.3	4.6	2.6	8.1	7.0	6.2	4.8
NE	1.0	3.0	.6	.1	*	*		4.6	7.3	1.5	4.9	3.7	3.3	7.7	9.1	4.9	10.0
E	1.3	4.0	3.6	1.0	.2	*		12.1	11.2	6.7	11.2	10.2	15.0	15.3	15.4	15.4	15.5
SE	1.2	7.8	5.9	1.8	.2	*		16.8	12.2	18.0	20.7	15.3	19.5	13.1	16.0	19.4	22.1
S	1.3	4.8	1.9	.3	*	*		8.3	9.0	13.2	10.6	8.2	6.9	4.6	6.7	7.0	9.2
SW	1.0	4.5	1.5	.2	*	*		7.4	8.8	11.1	8.8	7.3	13.0	5.2	4.8	5.5	7.0
W	2.4	11.8	5.5	.6	*	.0		20.3	9.2	28.0	21.4	21.9	21.7	15.3	17.8	15.9	18.9
NW	1.9	10.0	3.9	.2	*	.0		16.1	8.6	13.1	14.0	18.0	11.6	19.5	17.8	15.2	9.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.2							9.2	.0	6.4	4.2	10.6	6.3	11.1	5.4	10.4	3.6
TOT OBS	1859	4640	2117	383	51	7	9057		8.7	2175	168	1974	127	1932	240	2275	165
TOT PCT	20.5	51.2	23.4	4.2	.6	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.2	1.9	.1	*	.0		5.2	6.4	2.2	4.5	8.0	6.1
NE	2.5	2.0	.2	*	*		4.6	7.3	1.7	3.7	7.9	5.3
E	4.2	5.5	2.0	.4	*		12.1	11.2	7.0	10.5	15.3	15.4
SE	4.7	7.9	3.4	.8	*		16.8	12.2	18.2	15.6	13.4	19.6
S	3.5	3.9	.8	.1	*		8.3	9.0	13.0	8.1	4.9	7.2
SW	3.3	3.4	.5	.1	*		7.4	8.8	10.9	7.7	5.2	5.6
W	8.1	10.3	1.8	.1	.0		20.3	9.2	27.5	21.9	15.6	16.1
NW	7.0	8.0	1.0	.1	.0		16.1	8.6	13.2	17.6	19.3	14.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	9.2						9.2	.0	6.2	10.4	10.5	9.9
TOT OBS	4135	3869	883	159	11	9057		8.7	2343	2101	2173	2440
TOT PCT	45.7	42.7	9.7	1.8	.1		100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1954-1979
(OVER-ALL) 1885-1979

AREA 0006 MANZANILLO SE
17.6N 102.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00E03	6.2	9.2	53.9	25.3	5.0	.8	.1	9.5	100.0	2343
06E09	10.4	11.2	49.7	24.2	4.1	.4	*	8.7	100.0	2101
12E15	10.5	10.7	52.4	22.2	3.9	.3	.1	8.3	100.0	2173
18E21	9.9	14.1	49.5	21.9	3.8	.8	*	8.4	100.0	2440
TOT	834	1025	4640	2117	383	51	7	8.7		9057
PCT	9.2	11.3	51.2	23.4	4.2	.6	.1		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.0	1.4	1.9	1.0		4.8
NE	.7	1.2	1.5	1.1		5.1
E	1.2	2.3	4.5	3.6		5.7
SE	1.3	3.1	7.7	4.7		5.8
S	.9	1.9	3.7	2.2		5.6
SW	1.1	1.4	2.7	2.1		5.5
W	3.1	5.0	9.5	4.2		5.1
NW	3.2	4.2	5.7	2.6		4.7
VAR	.0	.0	.0	.0		.0
CALM	2.5	2.6	3.5	.9		4.2
TOT OBS	1020	1579	2709	1530	6837	5.2
TOT PCT	14.9	23.1	39.6	22.4	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	*	.1	.1	.5	.5	.2	.2	*	*	.0	3.8	
NE	.1	*	.1	.6	.6	.2	.1	*	*	*	2.9	
E	.2	.2	.5	1.6	1.9	.4	.3	.1	*	*	6.4	
SE	.4	.2	.7	2.1	2.6	.9	.4	.1	*	.0	9.2	
S	.2	*	.2	1.1	1.0	.5	.2	.1	*	.0	5.4	
SW	.2	*	.2	.9	1.1	.4	.2	.1	*	.0	4.1	
W	.3	.1	.4	2.1	2.4	1.1	.3	.2	*	.0	13.9	
NW	.2	.1	.2	1.0	2.0	.7	.2	.1	*	*	11.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	*	.1	.5	.7	.2	.2	*	*	*	7.5	
TOT OBS	105	48	173	716	879	312	136	44	12	5	4407	6837
TOT PCT	1.5	.7	2.5	10.5	12.9	4.6	2.0	.6	.2	.1	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 >SOYD	= OR >0
= OR >6500	.2	.2	.2	.2	.2	.2	.2	.2
= OR >5000	.8	.9	.9	.9	.9	.9	.9	.9
= OR >3500	2.4	2.8	2.9	2.9	2.9	2.9	2.9	2.9
= OR >2000	6.2	7.2	7.4	7.4	7.4	7.4	7.4	7.4
= OR >1000	16.2	19.3	19.9	20.1	20.2	20.2	20.2	20.2
= OR >600	23.0	28.9	30.1	30.4	30.5	30.5	30.5	30.6
= OR >300	24.3	30.8	32.4	32.9	33.0	33.1	33.1	33.1
= OR >150	24.6	31.3	33.0	33.6	33.7	33.7	33.8	33.8
= OR > 0	24.9	32.2	34.1	34.9	35.0	35.1	35.2	35.3
TOTAL	1749	2259	2398	2449	2462	2468	2475	2477

TOTAL NUMBER OF OBS: 7026

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
3.3	12.8	18.8	16.7	12.4	8.3	8.8	6.1	11.7	1.0	7486

SEPTEMBER

PERIOD: (PRIMARY) 1954-1979
(OVER-ALL) 1985-1979

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	*	.1	.1	.0	*	.1	*	.0	.0	.2	
	NO PCP	.0	.0	*	*	.0	*	*	.0	.0	*	.1	
	TOT %	.0	*	.1	.1	.0	*	.1	*	.0	*	.3	
1/2<1	PCP	.0	.0	*	*	.0	*	*	*	.0	*	.2	
	NO PCP	.0	*	*	*	.0	.0	.0	*	.0	.0	.1	
	TOT %	.0	*	.1	.1	.0	*	*	*	.0	*	.2	
1<2	PCP	.1	*	.1	.2	.1	.1	.1	*	.0	*	.7	
	NO PCP	*	*	.1	*	*	.0	*	*	.0	.0	.2	
	TOT %	.1	*	.2	.2	.1	.1	.1	.1	.0	*	.9	
2<5	PCP	*	.1	.4	.5	.1	.1	.2	.1	.0	*	1.6	
	NO PCP	.1	.1	.2	.2	.1	*	.1	.1	.0	*	1.0	
	TOT %	.1	.1	.6	.7	.2	.2	.3	.2	.0	*	2.6	
5<10	PCP	.2	.4	.7	.9	.4	.4	.6	.4	.0	.1	4.3	
	NO PCP	.4	.4	1.1	1.5	.7	.6	1.4	.9	.0	.4	7.2	
	TOT %	.5	.8	1.8	2.4	1.1	1.0	2.0	1.3	.0	.5	11.5	
10+	PCP	.2	.2	.6	1.0	.4	.3	.4	.4	.0	.2	3.6	
	NO PCP	4.2	3.5	8.7	12.4	6.5	5.7	17.3	14.1	.0	8.4	80.9	
	TOT %	4.4	3.6	9.4	13.3	6.9	6.0	17.7	14.5	.0	8.6	84.5	
	TOT OBS												8441
	TOT PCT	5.1	4.6	12.0	16.8	8.4	7.3	20.3	16.1	.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	*	*	
	4-10	*	*	*	*	.0	*	.1	*	.0		.2	
	11-21	.0	*	*	*	.0	.0	*	*	.0		.1	
	22+	.0	.0	*	*	.0	*	.0	*	.0		.1	
	TOT %	*	*	.1	.1	.0	*	.1	*	.0	*	.4	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	*	*	.0	*	*	
	4-10	*	*	*	*	.0	.0	*	*	.0		.1	
	11-21	.0	.0	*	*	.0	*	*	*	.0		.1	
	22+	.0	*	*	*	.0	*	*	.0	.0		.1	
	TOT %	*	*	.1	.1	.0	*	.1	*	.0	*	.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	*	*	.0	*	*	
	4-10	*	*	*	.1	*	*	*	.1	.0		.3	
	11-21	*	*	.1	.1	.1	*	.1	*	.0		.4	
	22+	*	.0	.1	.1	.1	*	.0	*	.0		.3	
	TOT %	.1	*	.2	.2	.1	.1	.1	.1	.0	*	1.0	
2<5	0-3	*	*	*	*	*	.0	*	.1			.2	
	4-10	.1	.1	.2	.2	.1	.1	.2	.1			1.0	
	11-21	*	.1	.2	.4	.1	.1	.2	.1	.0		1.2	
	22+	.0	*	.2	.2	*	*	*	*	.0		.5	
	TOT %	.2	.2	.6	.8	.3	.2	.4	.3	.0	.1	3.0	
5<10	0-3	.1	.1	.1	.1	.1	.1	.1	.1	.0	.5	1.1	
	4-10	.3	.5	.6	.9	.5	.4	1.0	.8	.0		5.0	
	11-21	.1	.2	.7	1.1	.4	.4	.7	.4	.0		4.0	
	22+	*	*	.4	.5	.1	.1	.2	*	.0		1.4	
	TOT %	.5	.8	1.8	2.5	1.1	1.0	2.0	1.2	.0	.5	11.5	
10+	0-3	1.2	.9	1.1	1.1	1.1	1.0	2.3	1.8	.0	8.6	19.0	
	4-10	2.8	2.4	5.2	6.7	4.1	3.9	10.4	9.1	.0		44.6	
	11-21	.4	.3	2.5	4.3	1.3	1.0	4.5	3.3	.0		17.7	
	22+	*	*	.5	1.1	.2	.1	.3	.2	.0		2.5	
	TOT %	4.4	3.6	9.4	13.2	6.8	6.0	17.5	14.4	.0	8.6	83.8	
	TOT OBS												8814
	TOT PCT	5.2	4.4	12.2	16.9	8.3	7.3	20.2	16.2	.0	9.1	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1954-1979
(OVER-ALL) 1965-1979

AREA CODE MANZANILLO SE
17.6N 102.9W

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	AM <5/8 ANY HGT	TOTAL OBS
00E03	.9	.8	2.6	8.2	12.7	4.1	1.8	.7	.2	.0	31.8	68.2	1984
06E09	1.4	.6	2.4	11.2	12.9	4.6	2.2	.4	.2	.1	35.9	64.1	1631
12E15	2.5	.7	2.7	13.7	13.9	4.4	2.2	.5	.1	.2	41.0	59.0	1693
18E21	1.2	.7	2.3	8.1	10.1	4.4	1.7	.9	.2	.1	29.4	70.6	1990
TOT	106	49	180	736	896	318	142	45	12	5	2489	4789	7278
PCT	1.5	.7	2.5	10.1	12.3	4.4	2.0	.6	.2	.1	34.2	65.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.1	.3	.9	2.3	8.4	88.0	2325
06E09	.4	.3	.9	3.0	12.3	83.1	2131
12E15	.6	.3	1.2	4.1	16.4	77.4	2179
18E21	.5	.2	1.0	2.7	9.0	86.6	2424
TOT	35	26	90	272	1033	7605	9061
PCT	.4	.3	1.0	3.0	11.4	83.9	100.0

TABLE 12

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

HOUR (GMT)	<150 <5DYD	<600 <1	<1000 <5	1000+ AND5+	AM <5/8 AND 5+	TOTAL OBS
00E03	.9	4.4	13.8	19.3	66.9	1918
06E09	1.5	4.6	17.2	20.6	62.4	1567
12E15	2.6	6.2	21.6	21.1	57.3	1635
18E21	1.1	4.4	13.6	16.9	69.5	1926
TOT	104	342	1165	1356	4525	7026
PCT	1.5	4.9	16.3	19.3	64.4	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
95/99	.0	.0	.0	.1	.1	.0	.0	.0	9	.1
90/94	.0	.0	.0	.2	1.1	.9	.3	.1	182	2.6
85/89	.0	.0	*	.2	4.1	15.0	4.3	.8	1715	24.3
80/84	.0	.0	*	.1	1.9	22.3	30.2	5.5	4235	60.0
75/79	.0	.0	.0	.0	.0	.7	5.0	6.9	868	12.4
70/74	.0	.0	.0	.0	.0	.0	.1	.4	34	.5
TOTAL	0	0	2	33	508	2751	2806	963	7063	100.0
PCT	.0	.0	*	.5	7.2	38.9	39.7	13.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	*	*	*	*	*	*	.0	.0
	.2	.1	.4	.2	.1	.1	.6	.4	.0	.4
	1.0	.8	2.0	3.9	2.0	1.8	6.1	4.3	.0	2.4
	3.2	2.9	7.0	9.6	5.0	4.0	12.0	10.1	.0	6.0
	.6	.9	2.4	2.8	1.2	1.2	1.8	1.0	.0	.6
	*	*	.1	*	.1	.1	.1	.1	.0	*
	5.2	4.7	11.9	16.6	8.5	7.1	20.6	16.1	.0	9.4

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	97	91	88	84	78	76	68	83.8	2395
06E09	92	87	85	82	77	75	72	81.9	2165
12E15	91	86	84	81	76	74	69	81.0	2233
18E21	98	93	90	84	78	75	69	84.3	2469
TOT	98	91	88	83	77	75	68	82.9	9252

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	.4	8.4	46.4	33.4	9.5	79	1900
06E09	.0	.2	3.0	31.8	49.9	15.1	82	1762
12E15	.0	.1	1.9	24.4	52.9	20.7	84	1739
18E21	.0	1.2	14.4	49.6	25.5	9.3	77	1883
TOT	0	35	515	2859	2914	981	80	7284

SEPTEMBER

PERIOD: (PRIMARY) 1954-1979
(OVER-ALL) 1885-1979

AREA 0006 MANZANILLO SE
17.6N 102.9W

TABLE 17

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

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	% FOG	NO FOG
17/19	.0	.0	.0	.0	.0	.0	*	.0	2	.0	*
14/16	.0	.0	.0	.0	.0	*	.0	.0	1	.0	*
11/13	.0	.0	.0	.0	*	*	.1	.1	16	.0	.2
9/10	.0	.0	.0	.0	*	.1	.1	.1	23	.0	.3
7/8	.0	.0	.0	*	*	.1	.3	.1	45	.0	.6
6	.0	.0	.0	.0	.1	.3	.4	.1	65	.0	.8
5	.0	.0	.0	.0	.1	.5	.7	*	102	.0	1.3
4	.0	.0	.0	*	.3	1.2	.8	*	187	.0	2.4
3	.0	.0	.0	.1	.4	1.5	.4	.0	196	.0	2.4
2	.0	.0	.0	.1	1.5	3.5	.5	*	438	.0	5.6
1	.0	.0	*	.1	1.9	3.3	.1	.0	425	.0	5.4
0	.0	.0	*	.4	5.5	4.9	.2	.0	864	*	11.0
-1	.0	.0	.0	.4	7.1	3.1	*	.0	839	*	10.7
-2	.0	.0	*	1.1	11.3	2.0	*	.0	1133	*	14.4
-3	.0	.0	*	1.7	8.5	1.0	*	.0	890	.0	11.3
-4	.0	.0	.1	3.3	6.2	.3	.0	.0	927	*	11.8
-5	.0	.0	.2	3.5	4.5	.2	.0	.0	652	.0	8.3
-6	.0	.0	.3	2.8	2.0	*	.0	.0	403	.0	5.1
-7/-8	.0	.0	.9	3.4	1.3	*	.0	.0	427	.0	5.4
-9/-10	.0	.0	.6	1.2	.2	.0	.0	.0	162	.0	2.1
-11/-13	.0	*	.5	.2	.0	.0	.0	.0	53	.0	.7
-14/-16	*	.1	.1	.0	.0	.0	.0	.0	12	.0	.2
-17/-19	*	*	.0	.0	.0	.0	.0	.0	2	.0	*
TOTAL	2	9	198	1438	4147	1738	287	35	7854	4	7850
PCT	*	.1	2.5	18.3	52.8	22.1	3.7	.4	100.0	.1	99.9

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

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

%

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
	N							NE						
<1	.6	.9	.0	.0	.0	.0	1.6	.4	1.0	*	.0	.0	.0	1.5
1-2	.2	1.5	.1	.0	.0	.0	1.8	.2	1.2	.3	.0	.0	.0	1.8
3-4	.0	.4	.1	.0	.0	.0	.7	.0	.5	.3	.0	.0	.0	.4
5-6	.0	.1	.1	.0	.0	.0	.2	.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	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.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	3.2	.4	.0	.0	.0	4.5	.7	2.7	.7	.0	.0	.0	4.2
	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	.8	1.3	*	.0	.0	.0	2.1	.7	1.5	.0	.0	.0	.0	2.2
1-2	.2	3.2	.3	.0	.0	.0	3.7	.3	4.7	.9	.0	.0	.0	5.9
3-4	.2	.9	1.6	.1	.0	.0	2.7	.1	1.1	2.1	.2	.0	.0	3.5
5-6	.0	.1	.9	.1	.0	.0	1.1	.0	.3	1.8	.2	.0	.0	2.4
7	.0	.0	.3	.3	.0	.0	.6	.0	.2	.7	.4	.0	.0	1.2
8-9	.0	.0	.2	.1	.0	.0	.4	.0	.0	.5	.4	.0	.0	.9
10-11	.0	.0	.1	.1	.0	.0	.2	.0	.0	.1	.3	.1	.0	.4
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	*	.0	.0	*	.0	.0	.0	.3	.1	.0	.4
17-19	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.1
26-32	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.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	5.4	3.4	1.0	*	.1	11.1	1.1	7.9	6.1	2.0	.2	.0	17.3

PERIOD: (OVER-ALL) 1963-1979 SEPTEMBER AREA CODE MANZANILLO SE

TABLE 18 (CONT) 17.6N 102.9W

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.8	.2	.0	.0	.0	1.4
1-2	.4	2.6	.5	.0	.0	.0	3.4
3-4	.1	1.7	.9	.0	.0	.0	2.7
5-6	.0	.1	.5	*	.0	.0	.9
7	.0	.0	.2	.1	.0	.0	.4
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	*	.1	.0	.0	.1
12	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.1	.1	.0	.0	.1
17-19	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	5.4	2.5	.3	.0	.0	9.1

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.2	.0	.0	.0	.0	1.7
1-2	.3	2.8	.3	.0	.0	.0	3.4
3-4	.1	1.3	.6	.1	.0	.0	2.0
5-6	.0	.1	.5	.1	.1	.0	.8
7	.0	.2	.2	.1	.0	.0	.4
8-9	.0	.2	.1	.1	.0	.0	.3
10-11	.0	.0	*	.0	.0	.0	*
12	.0	.0	.0	.0	*	.0	*
13-16	.0	.0	.0	.1	*	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	8.6	4.9	.3	.0	.0	14.9

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	2.0	*	.0	.0	.0	3.3
1-2	.9	6.6	1.2	.1	.0	.0	8.7
3-4	.2	3.1	2.6	.0	.0	.0	6.0
5-6	.0	.6	2.0	.2	.0	.0	2.8
7	.3	.2	.6	.1	.0	.0	1.2
8-9	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.4	12.5	6.4	.8	*	.0	22.2

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.5	1.8	.2	.0	.0	.0	2.5	
1-2	.3	4.3	.9	.0	.0	.0	5.5	
3-4	.1	1.9	2.5	.1	.0	.0	4.5	
5-6	.0	.5	.9	.2	.0	.0	1.7	
7	.0	.1	.4	.1	.0	.0	.6	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.0	8.6	4.9	.3	.0	.0	14.9	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	14.5	10.7	.4	.0	.0	.0	25.6	
1-2	3.6	26.2	4.4	.1	.0	.0	34.2	
3-4	.9	10.7	10.4	.4	.0	.0	22.4	
5-6	.2	2.0	6.6	.8	.1	.0	9.7	
7	.0		2.5	1.3	.0	.0	4.4	
8-9	.0		.8	.8	.0	.0	1.7	
10-11	.0		.2	.5	.1	.0	.7	
12	.0		.1	.2	.1	.0	.4	
13-16	.0	.0	.1	.4	.1	.0	.6	
17-19	.0	.0	.0	.1	.1	.0	.2	
20-22	.0	.0	.0	.1	.0	.0	.1	
23-25	.0	.0	.0	.1	.1	.0	.1	
26-32	.0	.0	.0	.0	.0	.1	.1	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	19.2	50.5	25.4	4.5	.4	.1	100.0	1975

PERIOD: (OVER-ALL) 1969-1979 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.4	13.5	13.5	5.8	1.7	.8	.5	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2576	3
6-7	.1	2.0	6.7	6.1	4.3	1.8	.9	.5	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1563	5
8-9	*	.4	2.9	3.9	2.7	1.5	.9	.5	.5	.2	*	*	*	.0	.0	.0	.0	.0	.0	881	6
10-11	.0	.1	1.0	1.0	1.1	.6	.3	.2	.2	.1	*	*	.0	.0	.0	.0	.0	.0	.0	324	6
12-13	.0	.0	.5	.7	.3	.2	.1	*	.2	*	*	.0	.0	.0	.0	.0	.0	.0	.0	129	6
>13	.0	.0	.0	.3	.1	.1	.2	*	.1	*	*	.0	.1	.0	.0	.0	.0	.0	.0	57	11
INDET	6.3	1.2	1.8	1.4	.5	.2	.1	.1	.2	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	752	7
TOTAL	710	1196	1659	1330	671	324	195	101	97	26	6	6	4	0	0	0	0	0	0	6282	4
PCT	11.3	18.2	26.4	21.2	10.7	5.2	3.1	1.6	1.5	.4	.1	.1	.1	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1954-1979
(OVER-ALL) 1872-1979

AREA 0006 MANZANILLO SE
17.6N 102.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.6	2.1	1.0	.0	.0	.0	.0	5.7	1.5	4.5	.1	.0	.7		.0	87.7
NE	5.0	1.0	1.3	.0	.0	.0	.0	7.4	2.6	6.7	.0	.0	.8		.0	83.0
E	6.5	3.5	1.3	.0	.0	.0	.1	11.3	5.8	4.1	.0	.0	.6		.2	76.1
SE	4.5	2.7	1.1	.0	.0	.0	.0	8.3	6.5	3.9	.0	.0	.8		.0	80.6
S	3.1	1.8	2.0	.0	.0	.0	.0	6.6	4.4	3.6	.0	.0	.6		.0	84.9
SW	2.4	1.7	1.2	.0	.0	.0	.2	5.5	3.4	2.9	.6	.0	.3		.0	87.6
W	1.5	.8	.3	.0	.0	.0	.0	2.5	1.6	4.3	.3	.0	.5		.0	90.9
NW	1.5	.8	.4	.0	.0	.0	.0	2.6	1.5	4.0	.4	.0	.4		.0	91.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.8	.3	.5	.0	.0	.0	.0	1.6	1.0	5.6	.0	.0	1.4		.0	90.5
TOT PCT	2.7	1.4	.8	.0	.0	.0	*	4.8	2.8	4.3	.2	.0	.7		*	87.4
TOT OBS:	8471															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00E03	1.5	1.0	.7	.0	.0	.0	.0	3.2	1.7	1.2	.2	.6	.4		.0	93.4
06E09	3.0	1.3	.9	.0	.0	.0	*	5.3	2.5	8.9	.3	.0	.4		.0	82.9
12E15	4.5	2.5	.8	.0	.0	.0	.0	7.7	4.3	8.4	.3	.0	.9		.1	78.6
18E21	2.1	1.0	.7	.0	.0	.0	*	3.8	2.6	.1	*	.0	.5		.0	92.6
TOT PCT	2.7	1.4	.8	.0	.0	.0	*	4.9	2.7	4.4	.2	.0	.6		*	87.2
TOT OBS:	8767															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.8	4.7	.8	*	.0	*		7.5	6.7	2.9	3.0	7.3	7.5	11.6	8.4	8.6	6.8
NE	1.0	3.7	.4	.1	*	*		5.2	6.9	1.9	5.0	3.1	6.5	9.6	4.7	6.4	4.0
E	1.2	5.3	2.2	.7	.2	*		9.6	10.3	5.5	5.6	7.4	8.2	12.5	13.4	12.7	12.7
SE	1.7	5.9	2.6	.7	.1	*		11.0	9.8	11.1	14.6	9.9	7.2	8.6	10.1	13.8	14.1
S	1.1	4.1	1.0	.2	.0	*		6.3	7.6	9.2	5.3	6.4	4.4	3.7	2.7	6.1	5.2
SW	1.1	4.2	.7	.1	*	*		6.2	7.3	11.1	7.9	5.6	4.1	3.4	5.4	4.4	5.9
W	2.8	14.1	4.7	.3	*	*		22.1	8.4	33.3	26.3	23.9	29.4	15.1	18.2	15.9	18.8
NW	2.7	13.1	4.2	.2	*	*		20.2	8.2	17.4	22.4	22.2	21.0	22.3	24.4	18.7	22.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	11.9							11.9	.0	7.7	9.9	14.2	6.5	14.3	7.8	13.0	5.6
TOT OBS	2296	4983	1505	204	32	16	9036		7.4	2156	151	2259	107	1922	232	2315	144
TOT PCT	25.4	55.1	16.7	2.3	.4	.2		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.5	2.7	.1	*	*		7.5	6.7	2.9	7.3	11.3	8.5
NE	3.2	1.7	.2	*	*		5.2	6.9	2.1	3.2	8.7	6.8
E	4.0	4.0	1.2	.4	.1		9.6	10.3	5.5	7.5	12.6	12.7
SE	4.5	4.8	1.4	.3	*		11.0	9.8	11.3	9.7	8.8	13.8
S	3.4	2.5	.3	*	*		6.3	7.6	9.0	6.3	3.6	6.1
SW	3.6	2.4	.2	.1	*		6.2	7.3	10.9	5.8	3.6	4.5
W	9.6	11.4	1.0	.1	*		22.1	8.4	32.8	24.1	15.4	16.1
NW	8.9	10.2	1.0	.1	*		20.2	8.2	17.7	22.2	22.5	18.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	11.9						11.9	.0	7.8	13.8	13.6	12.6
TOT OBS	4854	3586	481	93	22	9036		7.4	2307	2116	2154	2459
TOT PCT	53.7	39.7	5.3	1.0	.2		100.0		100.0	100.0	100.0	100.0

OCTOBER

PERIOD: (PRIMARY) 1954-1979
(OVER-ALL) 1872-1979

TABLE 4

AREA 0006 MANZANILLO SE
19.0N 104.3W

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
0001-03	7.8	10.8	58.6	19.9	2.3	.4	.1	5.0	100.0	2307
0610-09	13.6	12.1	52.8	18.6	2.3	.2	.3	7.5	100.0	2116
1213-15	13.8	13.4	56.4	13.9	2.2	.4	.2	7.0	100.0	2154
1819-21	12.6	17.5	52.9	14.3	2.2	.4	.1	6.9	100.0	2459
TOT	1074	1222	4983	1505	204	32	16	7.4		9036
PCT	11.9	13.5	55.1	16.7	2.3	.4	.2		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.9	1.9	1.9	.9		3.7
NE	1.7	1.2	1.3	.8		4.1
E	1.8	1.9	3.0	2.4		5.1
SE	1.7	2.5	4.1	2.6		5.2
S	1.3	1.9	2.4	1.1		4.7
SW	1.7	1.4	1.9	1.1		4.4
W	7.5	6.4	5.2	2.0		3.8
NW	8.0	5.9	4.8	1.7		3.5
VAR	.0	.0	.0	.0		.0
CALM	5.1	3.5	2.8	.7		3.3
TOT OBS	2243	1880	2016	638	7077	4.1
TOT PCT	31.7	26.6	28.5	13.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,4M >6/8) AND OCCURRENCE OF 4M <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	4M <5/8 ANY HGT	TOTAL OBS
N	.1	*	*	.3	.6	.2	.1	*	*	.0	6.2	
NE	.1	*	.1	.3	.4	.1	*	*	*	.0	3.9	
E	.1	.1	.3	1.0	1.1	.4	.3	*	*	*	5.7	
SE	.1	.1	.3	1.3	1.2	.6	.2	.1	*	.0	7.0	
S	*	.1	.1	.5	.6	.3	.1	*	*	.0	4.8	
SW	*	*	.1	.3	.5	.2	.2	*	*	*	4.6	
W	.1	.1	.2	1.1	1.7	.5	.3	*	*	*	10.2	
NW	.1	*	.2	.7	1.1	.5	.1	.1	*	.0	17.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	*	.1	.2	.6	.3	.1	*	.0	.0	10.7	
TOT OBS	49	29	106	396	558	232	106	29	11	2	5559	7077
TOT PCT	.7	.4	1.5	5.6	7.9	3.3	1.5	.4	.2	*	78.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (4M >6/8) AND VSBY (MI)

CEILING (FEET)	VSBY (MI) >OR =10	>OR =5	>OR =2	>OR =1	>OR =1/2	>OR =1/4	>OR =0.0	>OR =0
>OR =5500	.2	.2	.2	.2	.2	.2	.2	.2
>OR =5000	.5	.5	.6	.6	.6	.6	.6	.6
>OR =3500	1.7	2.0	2.1	2.1	2.1	2.1	2.1	2.1
>OR =2000	4.3	5.1	5.2	5.2	5.3	5.3	5.3	5.3
>OR =1000	10.6	12.7	13.1	13.1	13.2	13.2	13.2	13.2
>OR =600	14.3	17.7	18.5	18.6	18.6	18.7	18.7	18.7
>OR =300	15.0	18.9	19.8	20.0	20.1	20.1	20.2	20.2
>OR =150	15.2	19.2	20.2	20.4	20.4	20.5	20.6	20.6
>OR = 0	15.4	19.5	20.7	20.9	21.0	21.1	21.2	21.2
TOTAL	1125	1424	1509	1526	1536	1541	1549	1549

TOTAL NUMBER OF OBS: 7297 PCT FREQ 4M <5/8: 78.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
8.2	20.5	22.3	17.2	10.1	5.7	5.3	3.9	6.3	.5	7721

OCTOBER

PERIOD: (PRIMARY) 1954-1979
(OVER-ALL) 1872-1979

AREA 0004 MANZANILLO SE
19.6N 104.9W

TABLE A

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	.0	.1	*	*	.0	*	*	.0	.0	.1	
	NO PCP	.0	*	*	*	.0	.0	.0	.0	.0	.0	*	
	TOT %	*	*	.1	*	*	.0	*	*	.0	.0	.2	
1/2<1	PCP	*	*	*	*	*	*	*	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
	TOT %	*	*	*	*	*	*	*	.0	.0	.0	.1	
1<2	PCP	*	.1	.1	*	*	*	*	*	.0	.0	.3	
	NO PCP	.0	*	*	*	*	*	.0	*	.0	.0	.1	
	TOT %	*	.1	.1	.1	*	*	*	*	.0	.0	.4	
2<5	PCP	.1	.1	.2	.2	*	.1	.1	.1	.0	*	.9	
	NO PCP	.0	*	.2	.2	.1	.1	.1	*	.0	*	.7	
	TOT %	.1	.1	.4	.4	.1	.1	.2	.2	.0	*	1.5	
5<10	PCP	.2	.2	.6	.3	.2	.2	.2	.2	.0	*	1.9	
	NO PCP	.4	.4	1.0	1.1	.5	.5	1.1	1.2	.0	.1	5.6	
	TOT %	.6	.5	1.6	1.4	.7	.6	1.3	1.4	.0	.1	7.4	
10+	PCP	.1	.1	.3	.3	.2	.1	.2	.2	.0	.1	1.6	
	NO PCP	6.7	4.6	7.4	6.7	4.6	5.3	20.5	18.2	.0	11.1	87.7	
	TOT %	6.8	4.5	7.7	6.1	4.6	5.4	20.7	18.4	.0	11.2	89.6	
	TOT OBS												9444
	TOT PCT	7.5	5.2	9.6	11.0	6.4	6.2	22.2	20.2	.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	*	
	4-10	*	*	.0	.0	.0	.0	*	*	.0		.1	
	11-21	.0	.0	*	*	*	.0	*	*	.0		.1	
	22+	.0	.0	.1	*	.0	.0	.0	*	.0		.1	
	TOT %	*	*	.1	*	*	.0	*	*	.0	.0	.2	
1/2<1	0-3	.0	.0	.1	.0	.0	.0	.0	*	.0	.0	*	
	4-10	*	*	.0	*	*	.0	*	*	.0		.1	
	11-21	.0	.0	*	*	*	.0	*	.0	.0		*	
	22+	*	*	.0	*	*	*	*	*	.0		.1	
	TOT %	*	*	*	*	*	*	*	*	.0	.0	.2	
1<2	0-3	.0	.0	.0	.0	.0	*	.0	.0	.0	*	*	
	4-10	*	*	*	*	*	*	*	*	.0		.2	
	11-21	.0	*	*	*	*	*	*	*	.0		.1	
	22+	*	*	.1	*	.0	.0	.0	*	.0		.1	
	TOT %	*	.1	.1	.1	*	*	.1	.1	.0	*	.5	
2<5	0-3	.0	.0	*	*	*	*	*	*	.0	*	.1	
	4-10	*	.1	.1	.2	*	*	.1	.1	.0		.5	
	11-21	.1	*	.1	.2	*	*	.1	*	.0		.6	
	22+	*	*	.2	.1	*	*	*	*	.0		.3	
	TOT %	.1	.1	.4	.5	.1	.1	.2	.2	.0	*	1.7	
5<10	0-3	.1	.1	.1	.1	.1	.1	.2	.2	.0	.5	1.4	
	4-10	.3	.3	.5	.5	.3	.4	.7	.8	.0		3.4	
	11-21	.1	.1	.5	.5	.2	.1	.4	.3	.0		2.1	
	22+	*	*	.3	.2	*	*	.1	*	.0		.7	
	TOT %	.5	.4	1.4	1.4	.7	.6	1.3	1.4	.0	.5	6.3	
10+	0-3	1.8	.9	1.1	1.4	1.0	1.0	2.6	2.5	.0	11.3	23.8	
	4-10	4.4	2.3	4.7	5.1	3.7	3.8	13.3	12.1	.0		50.4	
	11-21	.7	.3	1.5	1.8	.7	.5	4.3	3.7	.0		13.6	
	22+	*	*	.3	.4	.1	.1	.3	.1	.0		1.3	
	TOT %	6.8	4.5	7.6	8.8	5.5	5.4	20.5	19.4	.0	11.3	89.0	
	TOT OBS												9776
	TOT PCT	7.6	5.2	9.6	11.0	6.4	6.2	22.1	20.1	.0	11.4	100.0	

OCTOBER

PERIOD: (PRIMARY) 1954-1979
(OVER-ALL) 1872-1979

TABLE 10

AREA CODE MANZANILLO SE
17.6N 102.4W

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	GH <5/8 ANY HGT	TOTAL OBS
00E03	.9	.2	1.2	4.4	8.2	2.7	1.3	.4	.2	.1	19.0	81.0	1999
06E09	.8	.4	1.5	5.7	7.6	3.4	1.8	.4	.1	.1	21.7	78.3	1760
12E15	.9	.5	1.7	6.2	8.3	3.3	1.2	.3	.2	.0	22.6	77.4	1756
18E21	.5	.4	1.4	5.2	6.6	3.1	1.5	.5	.1	.1	19.2	80.8	2088
TOT	45	29	108	405	579	236	110	30	11	2	1559	6044	7603
PCT	.6	.4	1.4	5.3	7.6	3.1	1.4	.4	.1	*	20.5	79.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.3	.1	.2	1.0	6.4	91.8	2294
06E09	.4	.1	.6	1.9	9.0	88.0	2162
12E15	.1	.3	.6	2.5	11.4	85.1	2161
18E21	.2	.3	.6	1.7	6.3	91.0	2477
TOT	27	20	63	157	747	8246	9256
PCT	.3	.2	.5	1.7	8.2	89.1	100.0

TABLE 12

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

HOUR (GMT)	<150 <500YD	<600 <1	<1000 <5	1000+ AND5+	GH <5/8 AND 5+	TOTAL OBS
00E03	.5	2.1	7.1	12.9	80.1	1934
06E09	.8	2.9	9.7	13.5	76.8	1672
12E15	1.0	3.6	11.1	13.2	75.7	1681
18E21	.5	2.6	8.7	11.4	79.9	2010
TOT	50	202	660	925	5712	7297
PCT	.7	2.8	9.0	12.7	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
95/99	.0	.0	.0	*	.1	*	.0	.0	4	.1
90/94	.0	.0	.0	.2	.2	.7	.3	*	175	2.4
85/89	.0	.0	*	.2	4.0	15.1	6.4	.7	1770	24.5
80/84	.0	.1	.0	.1	2.6	25.3	31.3	5.6	4607	64.4
75/79	.0	.0	.0	.0	.1	.6	3.1	3.7	556	7.7
70/74	.0	.0	.0	.0	*	.0	*	.2	25	.3
TOTAL	0	0	1	45	572	3032	2831	741	7219	100.0
PCT	.0	.0	*	.6	7.9	42.0	39.2	10.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	*	.0	*	*	.0	.0	*	.1	.0	*
	.2	.1	.2	.3	.1	.1	.6	.5	.0	.3
	1.6	1.1	1.4	2.4	1.5	1.5	6.7	5.3	.0	2.9
	5.2	3.2	6.0	9.6	4.3	3.8	14.0	13.4	.0	9.5
	.5	.6	1.7	1.6	.5	.6	.7	1.1	.0	.5
	*	.1	.1	*	*	*	.0	*	.0	*
	7.6	5.0	9.5	13.9	6.4	6.1	22.0	20.3	.0	13.2

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	90%	50%	10%	MIN	MEAN	TOTAL OBS
00E03	96	90	86	84	76	70	69	83.9	7353
06E09	91	84	85	82	79	76	74	82.2	2160
12E15	95	86	84	82	77	72	72	81.3	7226
18E21	97	93	90	85	76	74	72	84.7	7525
TOT	97	91	88	83	78	73	69	83.1	9264

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.5	9.9	53.2	31.3	6.1	78	1935
06E09	.0	.2	4.2	34.1	50.2	11.5	81	1857
12E15	.0	.1	1.5	28.1	52.7	17.6	83	1751
18E21	.0	1.5	14.1	50.7	25.6	6.1	76	1988
TOT	0	45	592	3144	2965	755	80	7481

OCTOBER

PERIOD: (PRIMARY) 1954-1979
(OVER-ALL) 1872-1979

AREA 0006 MANZANILLO SE
17.6N 102.9W

TABLE 17

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

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	>89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	*	*	4	.0	.1
11/13	.0	.0	.0	*	.1	*	.1	11	.0	.1
9/10	.0	.0	.0	.1	.1	.1	.1	28	.0	.4
7/8	.0	.0	.0	.1	.2	.4	.1	62	.0	.8
6	.0	.0	*	.1	.2	.3	*	52	.0	.7
5	.0	.0	*	.2	.6	.7	*	124	.0	1.6
4	.0	.0	*	.4	1.4	.8	*	206	.0	2.6
3	.0	.0	*	.5	1.7	.5	.0	218	.0	2.7
2	.0	.0	.1	1.5	3.7	.3	.0	441	.1	5.5
1	.0	.0	.1	2.3	3.9	.1	*	510	*	6.4
0	.0	.0	.3	8.1	4.8	.1	.0	1046	.1	.1
-1	.0	*	.3	9.1	3.3	*	.0	1004	*	.6
-2	.0	*	1.0	13.0	1.5	.0	.0	1232	*	15.5
-3	.0	*	1.5	8.9	.9	.0	.0	900	*	11.3
-4	.0	*	2.5	7.4	.4	.0	.0	622	*	10.4
-5	.0	.1	2.2	4.2	.1	.0	.0	519	.0	6.5
-6	.0	.1	2.0	1.4	.1	.0	.0	290	.0	3.7
-7/-8	.0	.5	2.4	.9	*	.0	.0	331	.0	3.9
-9/-10	*	.5	.7	.2	.0	.0	.0	110	.0	1.4
-11/-13	*	.3	.1	*	.0	.0	.0	36	.0	.5
-14/-16	.0	*	*	*	.0	.0	.0	6	.0	.1
TOTAL	4	127	1044	4647	1815	260	35	7932	17	7915
PCT	.1	1.6	13.2	58.6	22.9	3.3	.4	100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	1.5	.1	.0	.0	.0	2.7
1-2	.4	3.0	.2	.0	.0	.0	3.6
3-4	*	.9	.4	.1	.0	.0	1.4
5-6	.0	.2	.2	.0	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	5.7	.9	.1	.0	.0	8.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1		.2	.7	*	.0	.0	.0	.9
1-2		.1	1.8	.2	.0	.0	.0	2.1
3-4		.0	.5	.2	.0	.0	.0	.7
5-6		.0	.1	.2	.1	.0	.0	.3
7		.0	.0	.1	.1	.0	.0	.1
8-9		.0	.1	.0	.0	.0	.0	.1
10-11		.0	.0	.0	.0	.0	.0	.0
12		.0	.0	.0	.0	.0	.0	.0
13-16		.0	.0	.0	.0	.0	.1	.1
17-19		.0	.0	.0	.0	.0	.0	.0
20-22		.0	.0	.0	.0	.0	.0	.0
23-25		.0	.0	.0	.0	.0	.0	.0
26-32		.0	.0	.0	.0	.0	.0	.0
33-40		.0	.0	.0	.0	.0	.0	.0
41-48		.0	.0	.0	.0	.0	.0	.0
49-60		.0	.0	.0	.0	.0	.0	.0
61-70		.0	.0	.0	.0	.0	.0	.0
71-86		.0	.0	.0	.0	.0	.0	.0
87+		.0	.0	.0	.0	.0	.0	.0
TOT PCT		.3	3.1	.6	.1	.0	.1	4.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.1	.0	.0	.0	.0	1.8
1-2	.3	2.8	.2	.0	.0	.0	3.3
3-4	.0	1.0	1.0	.1	.0	.0	2.2
5-6	.0	.2	.3	.2	.0	.0	.7
7	.0	.1	.4	.1	.0		.5
8-9	.0	.0	.1	.1	.0		.2
10-11	.0	.0	.0	.1	.0		.1
12	.0	.0	.0	.1	.0		.1
13-16	.0	.0	.0	.1	.0		.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	5.2	2.0	.7	.0	.1	9.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.9	*	.0	.0	.0	1.6
1-2	.5	3.0	.2	.0	.0	.0	3.7
3-4	.1	.6	1.1	.1	.0	.0	1.8
5-6	.0	.1	.9	.2	.1	.0	1.3
7	.0	.2	.3	.1	.0	.0	.6
8-9	.0	.0	.1	.2	.0	.0	.3
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.1	.0	.1
13-16	.0	.0	.0	.2	.1	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	4.9	2.7	.4	.2	.0	9.6

PERIOD: (OVER-ALL) 1963-1979 OCTOBER

AREA 0006 MANZANILLO SE
17.6N 102.9W

TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.1	*	.0	.0	.0	1.7
1-2	.3	1.7	.3	.0	.0	.0	2.3
3-4	.1	.8	.2	.0	.0	.0	1.1
5-6	.0	.1	.1	.0	.0	.0	.1
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.1	.0	.1	.0	.0	.1
10-11	.0	.0	*	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	3.8	.9	.2	.0	.0	5.7

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.3	*	.0	.0	.0	1.6
1-2	.2	1.7	.2	.0	.0	.0	2.1
3-4	.1	.6	.1	.0	.0	.0	.8
5-6	.0	.2	.1	.0	.0	.0	.3
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.1	*	.0	.0	.1
10-11	.0	.0	*	.1	.0	.0	.1
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.8	.6	.1	.0	.0	5.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.4	3.1	.1	.0	.0	.0	4.5
1-2	.9	8.8	1.7	.0	.0	.0	11.4
3-4	.1	3.9	2.2	.0	.0	.0	6.1
5-6	.0	.6	1.2	.2	.0	.0	1.9
7	.0	.1	.3	.1	.0	.0	.5
8-9	.0	.0	*	.0	.1	.0	.1
10-11	.0	.0	.0	*	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.4	16.4	5.5	.3	.1	.0	24.6

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.5	2.5	*	.0	.0	.0	4.0	
1-2	1.1	8.3	1.8	.0	.0	.0	11.2	
3-4	.1	2.9	2.0	.0	.0	.0	4.9	
5-6	.0	.7	1.2	.1	.0	.0	2.0	
7	.0	.0	.1	.1	.0	.0	.2	
8-9	.0	.0	*	.0	.0	.0	*	
10-11	.0	.0	.0	.0	*	.0	*	
12	.0	.0	.0	.0	.1	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.7	14.5	5.0	.2	.1	.0	22.4	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	18.0	12.1	.2	.0	.0	.0	30.3	
1-2	5.3	30.4	4.5	.0	.0	.0	40.2	
3-4	.6	10.8	6.9	.2	.0	.0	18.6	
5-6	.0	2.2	3.9	.7	*	.0	6.9	
7	.0	.3	1.3	.3	.0	.0	2.0	
8-9	.0	.1	.2	.4	*	*	.9	
10-11	.0	.0	*	.3	*	.0	.4	
12	.0	.0	.0	.1	.1	.0	.2	
13-16	.0	.0	.0	.2	*	*	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								2032
TOT PCT	23.9	56.0	17.4	2.4	.3	.1	100.0	

PERIOD: (OVER-ALL) 1949-1979

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5	7	8-9	10-11	12	13-16	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	17.9	14.1	5.2	1.8	.4	.3	.1	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	2946	3
6-7	.1	2.8	8.3	5.9	2.8	1.1	.7	.2	.2	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	1934	5
8-9	.1	1.4	2.8	3.2	2.2	1.0	.3	.2	.2	*	*	*	.0	.0	.0	.0	.0	.0	.0	733	5
10-11	.0	.7	1.0	1.0	.4	.4	.3	*	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	254	5
12-13	.0	.0	.7	.3	.2	.2	.1	*	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	107	6
>13	.0	.0	*	.4	.2	.1	*	.0	*	.0	*	.0	*	.0	.0	.0	.0	.0	.0	53	7
INDET	8.2	1.8	2.1	1.1	.5	.1	*	.0	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	893	2
TOTAL	923	1573	1861	1102	509	217	115	32	49	17	15	5	2	0	0	0	0	0	0	6420	3
PCT	14.4	24.5	29.0	17.2	7.9	3.4	1.8	.5	.8	.3	.2	.1	*	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD. (PRIMARY) 1953-1979
(OVER-ALL) 1872-1979

AREA 0006 MANZANILLO SE
17.6N 102.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
N	.9	.3	.2	.0	.0	.0	.0	1.4	1.0	1.6	.5	.0	1.0	.0		94.6
NE	1.9	.6	.2	.0	.0	.0	.0	2.7	1.3	2.3	1.4	.0	1.1	.0		90.9
E	1.8	1.2	.7	.0	.0	.0	.0	3.6	1.9	2.8	.0	.0	1.4	.0		90.6
SE	1.6	1.5	.8	.0	.0	.0	.0	3.9	2.1	2.0	.0	.2	.9	.0		90.9
S	2.1	.4	.3	.0	.0	.0	.0	2.8	3.2	5.9	.8	.0	.7	.0		87.3
SW	1.2	.1	.3	.0	.0	.0	.0	1.5	.4	2.3	1.0	.0	1.1	.0		94.0
W	.3	.3	.0	.0	.0	.0	.0	.6	.4	1.0	.2	.0	.4	.0		97.1
NW	.2	.2	.1	.0	.0	.0	.0	.6	.5	1.0	.2	.0	.5	.0		97.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.3	.1	.0	.0	.0	.0	.0	.4	.2	1.5	.1	.0	1.7	.0		96.2
TOT PCT	.7	.4	.2	.0	.0	.0	.0	1.3	.8	1.6	.3	*	1.0	.0		95.1
TOT OBS:	7756															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
00E03	.6	.3	.2	.0	.0	.0	.0	1.0	.4	.5	.6	.0	1.0	.0		96.7
06E09	.5	.2	.2	.0	.0	.0	.0	.1	.8	2.8	.5	.0	.6	.0		94.5
12E15	1.4	.8	.2	.0	.0	.0	.0	2.4	1.2	3.2	.6	.1	1.1	.0		91.5
18E21	.4	.3	.2	.0	.0	.0	.0	.9	.8	.3	.2	.0	1.1	.0		96.6
TOT PCT	.7	.4	.2	.0	.0	.0	.0	1.3	.8	1.7	.5	*	1.0	.0		95.0
TOT OBS:	8050															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	3.3	7.3	.7	*	.0	.0		11.3	5.8	5.3	6.4	10.2	5.4	17.1	13.5	13.3	13.6
NE	1.7	4.4	.3	*	*	.0		6.4	5.6	2.2	2.1	4.5	2.9	9.5	12.6	8.8	13.1
E	1.4	4.6	.9	.1	*	.0		7.0	7.1	3.4	4.8	4.3	2.0	8.7	10.0	11.6	4.6
SE	1.2	3.3	.7	*	*	.0		5.3	6.7	5.3	6.0	4.3	2.5	4.9	3.7	6.8	3.4
S	.9	2.1	.2	.0	.0	.0		3.2	5.7	4.3	3.2	2.4	3.4	1.8	1.3	3.2	3.4
SW	1.0	3.1	.2	*	*	.0		4.4	5.7	9.2	2.5	4.1	6.4	1.8	1.3	2.7	5.8
W	3.8	15.1	2.9	.1	*	.0		22.1	7.1	36.5	33.1	24.9	38.0	12.4	14.7	13.8	17.7
NW	3.6	17.5	4.0	.1	*	*		25.2	7.5	23.1	27.1	29.2	27.7	24.9	28.3	23.0	31.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	15.2							15.2	.0	9.8	14.7	16.2	11.8	18.8	14.5	16.8	6.8
TOT OBS	2676	4807	828	35	7	1	8354		5.7	1960	163	1875	102	1805	235	2111	103
TOT PCT	32.0	57.5	9.9	.4	.1	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)				
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21	
N	7.6	3.6	.1	*	.0		11.3	5.8	5.4	9.9	16.7	13.3	
NE	4.4	1.9	.1	*	.0		6.4	5.6	2.2	4.5	9.9	9.0	
E	4.1	2.6	.2	.1	.0		7.0	7.1	3.5	4.1	8.8	11.3	
SE	3.3	1.8	.1	*	.0		5.3	6.7	5.3	4.2	4.8	6.6	
S	2.2	1.0	*	.0	.0		3.2	5.7	5.1	2.4	1.8	3.2	
SW	3.3	1.1	*	*	.0		4.4	5.7	8.7	4.2	1.8	2.9	
W	12.0	9.5	.4	.1	*		22.1	7.1	36.2	25.5	12.7	13.9	
NW	12.6	11.8	.7	.1	*		25.2	7.5	23.4	29.1	25.3	23.4	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	15.2						15.2	.0	10.2	16.0	18.3	14.3	
TOT OBS	5403	2783	146	20	2	8354		5.7	2123	1977	2040	2214	
TOT PCT	64.7	33.3	1.7	.2	*		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1872-1979

AREA 0006 MANZANILLO SE
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	10.2	15.0	60.3	14.0	.4	.0	*	6.6	100.0	2123
06&09	16.0	14.6	57.4	11.5	.5	.1	.0	6.0	100.0	1977
12&15	18.3	16.7	57.0	7.6	.4	*	.0	5.3	100.0	2040
18&21	14.3	20.9	55.6	6.6	.4	.2	.0	5.2	100.0	2214
TOT	1266	1410	4807	828	35	7	1	5.7		8354
PCT	15.2	16.9	57.5	9.9	.4	.1	*		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	6.3	2.5	2.0	.4		2.6
NE	3.2	1.3	1.2	.3		2.9
E	2.8	1.6	1.5	.2		3.6
SE	1.8	1.5	1.4	.6		3.9
S	1.1	.8	.8	.3		3.8
SW	1.8	1.5	1.1	.2		3.3
W	11.3	6.6	3.4	.9		2.8
NW	13.4	6.2	4.7	1.0		2.8
VAR	.0	.0	.0	.0		.0
CALM	8.6	3.7	2.3	.4		2.5
TOT OBS	3217	1648	1203	315	6383	2.9
TOT PCT	50.4	25.8	18.8	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 7499	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	*	*	*	.2	.4	.2	.1	*	*	*	10.3	
NE	*	*	*	.1	.3	.2	*	*	.0	*	5.3	
E	*	*	.1	.4	.5	.1	.1	.1	*	.0	5.4	
SE	*	*	*	.2	.5	.2	*	.1	.0	.0	4.2	
S	*	.0	*	.1	.3	.1	*	*	.0	.0	2.4	
SW	*	.0	.1	*	.1	*	*	*	.0	.0	4.2	
W	*	*	.1	.4	.8	.5	.1	*	*	*	20.6	
NW	.1	*	.1	.4	.8	.5	.2	.1	.1	.1	22.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	.0	*	.2	.4	.3	.2	*	*	*	13.9	
TOT OBS	16	12	29	140	259	135	48	26	12	12	5694	6383
TOT PCT	.3	.2	.5	2.2	4.1	2.1	.8	.4	.2	.2	89.2	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 >0YD	= OR >0
= OR >6500	.4	.4	.4	.4	.4	.4	.4	.4
= OR >5000	.8	.8	.8	.8	.8	.8	.8	.8
= OR >3500	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6
= OR >2000	3.3	3.6	3.6	3.6	3.6	3.6	3.6	3.6
= OR >1000	6.9	7.5	7.6	7.6	7.6	7.6	7.6	7.6
= OR >600	8.8	9.6	9.8	9.8	9.8	9.8	9.8	9.8
= OR >300	9.2	10.1	10.3	10.3	10.3	10.3	10.3	10.3
= OR >150	9.3	10.3	10.5	10.5	10.5	10.5	10.5	10.5
= OR > 0	9.5	10.5	10.7	10.7	10.7	10.7	10.7	10.7
TOTAL	622	690	703	704	705	705	705	705

TOTAL NUMBER OF OBS: 6571

PCT FREQ NH <5/8: 89.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
19.1	26.3	22.3	13.7	7.8	3.7	3.2	1.9	1.9	.2	6931

NOVEMBER

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1872-1979

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
1<2	PCP	*	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
2<5	PCP	.0	*	*	*	.0	*	*	.0	.0	.0	.1	
	NO PCP	*	*	*	.0	*	*	*	.1	.0	*	.2	
	TOT %	*	*	*	*	*	*	.1	.1	.0	*	.3	
5<10	PCP	.1	*	.1	.1	*	*	*	*	.0	*	.4	
	NO PCP	.5	.4	.6	.4	.2	.2	.7	1.1	.0	.5	4.5	
	TOT %	.5	.4	.7	.4	.3	.2	.8	1.1	.0	.5	4.9	
10+	PCP	.1	.1	.1	.1	*	*	.1	.1	.0	*	.6	
	NO PCP	10.7	5.8	6.1	4.7	3.0	4.2	21.3	24.2	.0	14.0	94.0	
	TOT %	10.8	6.0	6.2	4.9	3.0	4.2	21.3	24.3	.0	14.0	94.7	
	TOT OBS												7731
	TOT PCT	11.4	6.4	7.0	5.3	3.3	4.5	22.2	25.5	.0	14.5	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	*	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	*	.0	.0		*	
	TOT %	.0	.0	.0	.0	.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		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	*	.0	.0	.0	.0	.0	*	.0	.0		*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	*	.0	.0	.0	.0	.0	.0	.0	.0		*	
	TOT %	*	.0	.0	.0	.0	.0	*	.0	.0	*	.1	
2<5	0-3	*	*	*	.0	.0	*	.0	*	.0	*	.1	
	4-10	*	*	*	*	.0	*	*	*	.0		.2	
	11-21	*	.0	*	.0	*	.0	*	*	.0		.1	
	22+	.0	.0	*	*	.0	*	*	*	.0		*	
	TOT %	.1	*	.1	*	*	*	.1	.1	.0	*	.5	
5<10	0-3	.2	.2	.1	.1	.1	.1	.2	.2	.0	.5	1.6	
	4-10	.3	.1	.3	.3	.2	.1	.4	.6	.0		2.3	
	11-21	*	.1	.1	.1	*	*	.1	.2	.0		.6	
	22+	*	*	.1	*	.0	*	*	*	.0		.2	
	TOT %	.5	.4	.7	.4	.2	.2	.7	1.0	.0	.5	4.7	
10+	0-3	3.0	1.5	1.2	1.1	.8	1.0	3.6	3.3	.0	14.5	30.1	
	4-10	7.0	4.2	4.3	3.0	1.9	3.0	14.7	17.0	.0		55.1	
	11-21	.7	.2	.7	.6	.2	.2	2.8	3.8	.0		9.3	
	22+	.0	.0	*	*	.0	*	.1	.1	.0		.2	
	TOT %	10.7	5.9	6.3	4.8	2.9	4.2	21.2	24.2	.0	14.5	94.7	
	TOT OBS												8079
	TOT PCT	11.3	6.3	7.0	5.3	3.2	4.4	22.1	25.4	.0	15.0	100.0	

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1872-1979

AREA 0006 MANZANILLO SE
17.6N 102.9W

TABLE 1C

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH 24/61) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	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	.1	.4	1.6	4.3	2.1	.5	.8	.1	.4	10.4	89.6	1777
06E09	.3	.1	.2	2.1	3.8	1.6	.9	.1	.2	.2	9.6	90.4	1641
12E15	.6	.3	.7	2.4	3.8	2.1	.4	.4	.1	.2	10.9	89.1	1600
18E21	.1	.2	.5	2.3	3.5	2.1	1.2	.4	.2	.1	10.5	89.5	1874
TOT	16	13	32	146	265	137	51	28	12	14	714	6178	6892
PCT	.2	.2	.5	2.1	3.8	2.0	.7	.4	.2	.2	10.4	89.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	*	*	*	.3	4.8	94.8	2098
06E09	.1	.0	.0	.6	5.2	94.2	1999
12E15	.0	.0	.1	.5	6.5	92.9	2034
18E21	.0	.0	.1	.4	3.7	96.3	2243
TOT	2	1	6	37	406	7922	8374
PCT	*	*	.1	.4	4.8	94.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH 24/61),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.1	.6	2.4	6.5	89.1	1711
06E09	.4	.8	3.4	6.8	89.9	1567
12E15	.6	1.7	4.4	7.1	88.5	1514
18E21	.1	.6	3.6	7.5	88.9	1779
TOT	17	62	225	492	5854	6571
PCT	.3	.9	3.4	7.5	89.1	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	*	.0	.0	2	*
90/94	.0	.0	*	.2	.5	.4	.1	.1	77	1.2
85/89	.0	.0	.1	.4	3.9	8.2	2.2	.4	987	15.3
80/84	.0	.0	.0	.5	7.0	33.0	25.5	4.4	4554	70.5
75/79	.0	.0	.0	*	.4	4.1	6.0	2.2	820	12.7
70/74	.0	.0	.0	.0	*	*	.1	.1	17	.3
TOTAL	0	0	6	74	761	2956	2198	462	6457	100.0
PCT	.0	.0	.1	1.1	11.8	45.8	34.0	7.2		

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
.1	.1	.1	.1	.1	*	.2	.4	.0	.2
1.3	.8	1.1	.9	.7	.9	3.8	3.7	.0	2.1
7.8	4.2	4.6	3.6	2.0	3.3	16.8	17.5	.0	10.7
1.9	1.4	1.0	.6	.2	.3	1.7	3.5	.0	2.1
*	*	*	*	.0	.0	.0	.1	.0	.1
11.3	6.4	6.9	5.3	3.0	4.5	22.5	25.2	.0	15.1

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	95	91	87	83	79	77	70	83.0	7162
06E09	90	86	84	82	78	76	73	81.3	2042
12E15	94	85	84	81	77	75	71	80.5	2106
18E21	95	91	88	84	79	77	74	83.7	2278
TOT	95	90	87	82	78	76	70	82.2	8588

TABLE 16

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	1.4	15.4	51.7	26.1	5.3	75	1697
06E09	.0	.5	5.3	45.6	40.3	8.2	80	1641
12E15	.0	.5	4.0	33.9	49.1	12.5	82	1586
18E21	.0	2.4	20.6	50.8	22.2	3.9	75	1768
TOT	0	83	777	3062	2275	491	78	6688

NOVEMBER

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1872-1979

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TABLE 17

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

AIR-SEA IMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	N FOG	WO FOG
14/16	.0	.0	.0	.0	*	*	.0	2	.0	*
11/13	.0	.0	.0	*	.1	*	*	11	.0	.2
9/10	.0	.0	.0	.1	.1	.1	.1	26	.0	.4
7/8	.0	.0	*	.2	.2	.3	*	59	.0	.8
6	.0	.0	.0	.1	.2	.2	*	42	.0	.6
5	.0	.0	.1	.3	.6	.3	.0	92	.0	1.3
4	.0	*	.1	.7	1.1	.2	.0	158	*	2.2
3	.0	.0	*	.6	1.3	.2	.0	161	*	2.2
2	.0	.0	.3	2.5	2.3	.2	.0	382	*	5.2
1	.0	*	.4	3.0	2.4	.1	.0	436	*	5.9
0	.0	.0	1.0	8.5	2.8	*	.0	897	.1	12.1
-1	.0	*	1.4	10.0	1.7	*	.0	957	.1	13.0
-2	.0	.1	2.5	13.3	.6	.0	.0	1200	.1	16.3
-3	.0	.1	3.5	8.7	.4	.0	.0	925	.0	12.7
-4	.0	.2	4.8	6.5	.1	.0	.0	842	*	11.5
-5	.0	.2	3.4	3.4	.2	.0	.0	520	.0	7.1
-6	.0	.1	2.9	.9	*	.0	.0	293	.0	4.0
-7/-8	.0	.2	2.2	.7	.0	.0	.0	227	.0	3.1
-9/-10	.0	.3	.4	.1	.0	.0	.0	57	.0	.8
-11/-13	.1	*	.1	*	.0	.0	.0	14	.0	.2
-14/-16	.0	.0	.0	*	.0	.0	.0	2	.0	*
TOTAL	*	92	1662	4358	1026	128	11	7301	36	7265
PCT	.1	1.3	23.0	59.7	14.1	1.8	.2	100.0	.5	99.5

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

PCT FREQ OF 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	2.3	.1	.0	.0	.0	4.2
1-2	.8	3.8	.3	.0	.0	.0	4.9
3-4	.3	1.4	.1	.0	.0	.0	1.8
5-6	.0	.1	.1	.0	.0	.0	.2
7	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.9	7.6	.7	.0	.0	.0	11.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.5	.0	.0	.0	.0	2.1
1-2	.5	2.3	.1	.0	.0	.0	2.9
3-4	.1	.4	.2	.0	.0	.0	.7
5-6	.0	.1	*	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.7	.3	.0	.0	.0	5.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.5	*	.0	.0	.0	2.0
1-2	.5	2.5	.3	.0	.0	.0	3.3
3-4	.1	.6	.1	.0	.0	.0	.8
5-6	.0	.2	.1	.0	.0	.0	.3
7	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	4.8	.4	.0	.0	.0	6.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.9	*	.0	.0	.0	1.4
1-2	.2	2.0	.2	.0	.0	.0	2.4
3-4	.1	.6	.2	.0	.0	.0	1.0
5-6	.1	.1	*	.0	.0	.0	.2
7	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	3.7	.4	.0	.0	.0	5.1

PERIOD: (OVER-ALL) 1963-1979 AREA CODE MANZANILLO SE
TABLE 18 (CONT) 17.6N 102.9W

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

S

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

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.5	.0	.0	.0	.0	2.2
1-2	.3	2.0	.2	.0	.0	.0	2.5
3-4	.1	.4	.1	.0	.0	.0	.6
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	4.0	.3	.0	.0	.0	5.3

B

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.9	3.8	.1	.0	.0	.0	5.8
1-2	1.6	9.5	1.4	.0	.0	.0	12.6
3-4	.2	2.0	1.0	.0	.0	.0	3.2
5-6	.0	.4	.5	.0	.0	.0	.9
7	.0	.1	.0	.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	3.7	15.9	3.1	.0	.0	.0	22.6

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.9	4.3	*	.0	.0	.0	6.2
1-2	1.2	10.3	1.1	.0	.0	.0	12.6
3-4	.2	2.6	1.4	.0	.0	.0	4.1
5-6	.0	.9	.5	.1	.0	.0	1.4
7	.0	.1	.3	.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	.1
13-16	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.3	18.2	3.4	.1	.0	.0	25.1

TOTAL PCT
6.2
12.6
4.1
1.4
.4
.1
.0
.1
.1
.0
.0
.0
.0
.0
.0
.0
.0
.0
84.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	24.1	16.5	.3	.0	.0	.0	40.9	
1-2	5.4	32.8	3.4	.0	.0	.0	42.2	
3-4	1.2	9.3	3.2	.0	.0	.0	12.6	
5-6	.1	1.9	1.3	.1	.0	.0	3.3	
7	.0	.2	.5	.0	.0	.0	.6	
8-9	.0	.0	.1	.0	.0	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.1	.0	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	31.4	59.7	8.8	.1	.0	.0	100.0	1766

PERIOD: (OVER-ALL) 1949-1979 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	9.9	23.8	14.1	3.7	.	.9	.1	.0	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	2962	2
6-7	.3	3.6	6.9	3.8	1.2	.5	.2	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	902	4
8-9	.1	1.1	2.2	1.3	.8	.3	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	327	4
10-11	.0	.9	1.3	.8	.3	.1	.1	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	193	4
12-13	.0	.0	.6	.4	.2	.1	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	77	5
>13	.0	.0	*	.4	.1	.1	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	40	6
INDET	13.6	2.1	2.3	.6	.1	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1082	1
TOTAL	1339	1760	1503	616	226	88	25	6	14	4	0	0	0	0	0	0	0	0	0	5583	3
PCT	24.0	31.5	26.9	11.0	4.1	1.6	.4	.1	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1661-1979

AREA CODE MANZANILLO SE
17.6N 102.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLNG	DUST BLNG SNOW	NO SIG WEA
N	1.0	.1	.2	.0	.0	.0	.0	1.2	.6	.5	.0	.0	.5		.0	97.2
NE	1.0	.4	.2	.0	.0	.0	.0	1.5	.2	1.0	.0	.0	1.0		.0	95.6
E	1.4	.5	.4	.0	.0	.0	.0	2.3	.5	.9	.3	.0	.4		.2	95.6
SE	.5	.7	.1	.0	.0	.0	.0	1.2	1.4	.7	.6	.0	1.4		.0	94.7
S	1.2	1.7	.5	.0	.0	.0	.0	3.4	1.1	.5	.0	.0	.6		.0	94.7
SW	.0	.5	.0	.0	.0	.0	.0	.5	.9	.4	.0	.0	.2		.0	98.3
W	.1	.0	.1	.0	.0	.0	.0	.1	.1	.1	.2	.0	.4		.0	99.1
NW	.3	.1	.2	.0	.0	.0	.0	.6	.2	.5	.2	.0	.5		.0	98.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.2	.1	.0	.0	.0	.0	.0	.3	.2	.9	.1	.0	2.0		.1	96.4
TOT PCT	.5	.2	.2	.0	.0	.0	.0	.9	.4	.6	.2	.0	.7		*	97.3
TOT OBS:	7106															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER 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 BLNG	DUST BLNG SNOW	NO SIG WEA
00E03	.6	.3	.1	.0	.0	.0	.0	1.0	.2	.1	.2	.0	.3		.1	98.2
04E09	.6	.2	.2	.0	.0	.0	.0	1.0	.2	1.4	.3	.0	1.0		.0	96.2
12E15	.4	.2	.1	.0	.0	.0	.0	.9	.5	1.3	.1	.0	.7		.1	96.4
18E21	.4	.2	.2	.0	.0	.0	.0	.7	.7	*	*	.0	1.0		.0	97.5
TOT PCT	.5	.2	.1	.0	.0	.0	.0	.9	.4	.7	.2	.0	.7		*	97.2
TOT OBS:	7382															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)				
WND DIR	0-3	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	8.2	1.3	*	.0	.0		12.6	6.2	6.7	5.5	11.8	4.8	17.0	22.1	15.8	14.7
NE	2.1	5.4	.5	.1	.0	.0		8.0	5.8	3.2	.8	5.2	3.1	12.0	13.1	11.4	14.2
E	1.6	5.4	.9	*	.0	.0		7.9	6.5	4.4	3.2	5.7	4.0	4.4	12.1	12.5	9.4
SE	1.3	2.9	.6	*	.0	.0		4.8	6.4	4.9	7.2	3.5	9.4	3.5	5.7	6.2	5.0
S	.9	1.7	.2	.0	.0	.0		2.8	5.5	5.4	3.2	1.9	6.5	1.1	1.5	2.4	3.3
SW	1.0	2.7	.2	.0	.0	.0		3.9	5.5	8.9	4.7	2.5	5.7	1.5	1.8	2.5	4.8
W	3.6	11.3	2.2	*	*	.0		19.0	6.8	33.0	30.5	20.1	34.4	11.0	13.2	11.3	19.2
NW	3.7	17.4	4.9	.1	.0	.0		26.2	7.7	23.7	28.8	32.4	25.9	26.8	27.6	22.3	26.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	14.8							14.8	.0	9.7	14.1	16.9	5.7	18.8	13.1	15.5	6.8
TOT OBS	2464	4359	821	20	1	0	7665		5.7	1826	118	1724	88	1599	199	2005	106
TOT PCT	32.1	56.9	10.7	.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	8.1	4.3	.2	.0	.0		12.6	6.2	6.6	11.5	16.4	15.8
NE	5.8	2.1	.1	.0	.0		8.0	5.8	3.0	5.1	12.1	11.6
E	4.8	3.1	.1	.0	.0		7.9	6.5	4.3	5.6	8.8	12.3
SE	3.0	1.7	.1	.0	.0		4.8	6.4	5.1	3.8	3.7	6.3
S	2.0	.7	*	.0	.0		2.8	5.5	5.3	2.2	1.1	2.5
SW	2.9	1.0	*	.0	.0		3.9	5.5	7.6	2.6	1.5	2.7
W	10.6	8.2	.2	*	.0		19.0	6.8	32.9	20.8	11.3	11.4
NW	12.6	12.7	.9	*	.0		26.2	7.7	24.0	32.1	26.8	22.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	14.8						14.8	.0	10.1	16.4	10.1	15.1
TOT OBS	4967	2577	138	3	0	7665		5.7	1944	1812	1798	2111
TOT PCT	64.5	33.6	1.8	*	.0		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1961-1979

AREA 0006 MANZANILLO SE
19.0N 104.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00103	10.1	15.8	60.7	13.3	.1	.0	.0	6.4	100.0	1944
04109	16.9	15.2	55.2	12.7	.4	.1	.0	6.0	100.0	1912
12115	18.1	14.3	56.2	9.1	.3	.0	.0	5.4	100.0	1798
16121	15.1	21.3	55.4	8.0	.3	.0	.0	5.2	100.0	2111
TOT	1138	1326	4359	871	20	1	0	5.7		7665
PCT	14.8	17.3	56.9	10.7	.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	6.3	2.6	2.7	1.1		3.1
NE	3.8	1.4	1.7	.7		3.2
E	7.8	2.2	2.2	.9		3.0
SE	1.6	1.1	1.1	.7		3.9
S	1.2	.6	.8	.4		3.6
SW	1.9	.8	.8	.2		3.0
W	10.1	4.6	3.7	1.0		2.8
NW	13.3	5.2	4.3	1.9		2.9
VAR	.0	.0	.0	.0		.0
CALM	8.0	3.0	2.9	.9		2.9
TOT OBS	2859	1274	1246	455	5838	3.1
TOT PCT	49.0	21.8	21.3	7.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,HM 24/A) AND OCCURRENCE OF HM <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	HM <5/8 ANY HGT	TOTAL OBS
N	.0	*	*	.5	.7	.5	.1	.1	*	*	10.9	
NE	*	*	.1	.2	.4	.2	.1	*	*	.1	6.8	
E	.1	*	.1	.2	.4	.2	.2	*	*	.1	6.6	
SE	*	.0	*	.1	.3	.2	.1	*	*	.0	*	3.7
S	.0	.0	.0	.1	.1	.1	.1	*	*	.0	2.5	
SW	*	.0	*	.1	.1	.1	.1	.1	.0	*	3.3	
W	*	.0	*	.4	.6	.6	.3	.1	.0	.1	17.4	
NW	.1	*	.1	.6	1.3	.6	.4	.1	.1	.1	22.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.0	.1	.5	.3	.3	.1	*	.1	13.1	
TOT OBS	15	3	22	154	257	152	98	33	18	35	5051	5838
TOT PCT	.3	.1	.4	2.6	4.4	2.6	1.7	.6	.3	.6	86.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (HM 24/A) AND VSBY (HM)

CEILING (FEET)	VSBY (HM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >5040	= OR >0
= OR >6500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
= OR >5000	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6
= OR >3500	3.0	3.3	3.3	3.3	3.3	3.3	3.3	3.3
= OR >1700	5.4	5.8	5.9	5.9	5.9	5.9	5.9	5.9
= OR >1000	9.2	10.1	10.1	10.1	10.1	10.2	10.2	10.2
= OR >600	11.4	12.6	12.7	12.7	12.7	12.8	12.8	12.8
= OR >300	11.7	13.0	13.1	13.1	13.1	13.2	13.2	13.2
= OR >150	11.9	13.0	13.2	13.2	13.2	13.2	13.2	13.2
= OR > 0	12.0	13.2	13.4	13.4	13.4	13.5	13.5	13.5
TOTAL	721	797	807	807	809	812	812	812

TOTAL NUMBER OF OBS: 6029 PCT FREQ HM <5/8: 86.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
25.5	20.4	17.6	11.0	6.8	4.2	3.6	2.7	3.4	.2	6397

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1861-1979

AREA CODE MANZANILLO SE
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	*	.0	.0	*	*	
	TOT %	.0	.0	.0	.0	.0	.0	*	.0	.0	*	*	
1/2<1	PCP	.0	*	*	.0	.0	.0	.0	.0	.0	.0	*	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	*	*	.0	.0	.0	.0	.0	.0	.0	*	
1<2	PCP	.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	*	
2<5	PCP	*	*	*	.0	.0	.0	*	*	.0	.0	.1	
	NO PCP	*	*	*	*	.0	.0	*	*	.0	*	.2	
	TOT %	*	*	*	*	.0	.0	*	*	.0	*	.3	
5<10	PCP	.*	.*	.1	.*	*	*	.*	.1	.0	.*	.3	
	NO PCP	.4	.4	.4	.3	.1	.1	.8	1.2	.0	.4	4.2	
	TOT %	.4	.4	.5	.4	.2	.1	.8	1.2	.0	.4	4.5	
10+	PCP	.1	.1	.1	*	.1	*	.0	.1	.0	*	.4	
	NO PCP	12.1	7.4	7.4	4.3	2.7	3.8	18.3	24.4	.0	13.8	94.7	
	TOT %	12.2	7.5	7.5	4.3	2.7	3.8	18.3	25.0	.0	13.9	95.1	
	TOT OBS												7376
	TOT PCT	12.7	8.0	8.0	4.7	2.9	3.9	19.2	26.3	.0	14.7	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	*	*	
	4-10	*	*	*	.0	.0	.0	*	*	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	*	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	*	.0	.0	.0	*	*	.0	*	.1	
1/2<1	0-3	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	*	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	*	.0	.0	.0	.0	.0	.0	.0	*	
1<2	0-3	*	*	.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	
2<5	0-3	*	.0	*	*	.0	.0	*	*	.0	*	.1	
	4-10	*	*	.0	.1	.0	.0	.0	.0	.0		.2	
	11-21	*	*	.0	*	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.1	*	.1	.0	*	.1	.1	.0	*	.4	
5<10	0-3	.1	.1	.1	.1	.1	*	.2	.2	.0	.*	.4	
	4-10	.2	.2	.3	.2	.1	.1	.5	.7	.0		2.3	
	11-21	.1	.1	.1	*	*	*	.1	.2	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.1	.0		.1	
	TOT %	.4	.4	.5	.3	.2	.1	.8	1.2	.0	.4	4.4	
10+	0-3	2.9	1.8	1.4	1.1	.8	1.0	3.4	3.4	.0	14.2	30.0	
	4-10	8.0	5.1	5.1	2.7	1.7	2.6	12.8	16.8	.0		54.8	
	11-21	1.1	.4	.8	.6	.2	.2	2.0	4.7	.0		9.4	
	22+	*	.1	*	*	.0	.0	*	.1	.0		.2	
	TOT %	12.1	7.4	7.3	4.3	2.7	3.7	18.2	24.9	.0	14.2	94.9	
	TOT OBS												7376
	TOT PCT	12.7	7.9	7.9	4.7	2.8	3.9	19.2	26.3	.0	14.7	100.0	

DECEMBER

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1861-1979

TABLE 10

AREA 0006 MANZANILLO SE
17.6N 102.9W

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	AM <5/8 ANY HGT	TOTAL OBS
0003	.2	.1	.5	2.8	4.6	2.7	2.0	.6	.3	.7	14.9	85.1	1648
0609	.3	.0	.3	2.5	3.7	2.9	1.6	.5	.1	.7	12.6	87.4	1505
1215	.3	.1	.4	2.6	4.5	1.7	1.3	.4	.4	.7	12.4	87.6	1450
1821	.1	.1	.2	2.1	3.7	2.7	1.5	.6	.4	.5	12.1	87.9	1723
TOT	16	3	23	158	264	159	102	37	20	41	823	5503	6326
PCT	.3	*	.4	2.5	4.2	2.5	1.6	.6	.3	.6	13.0	87.0	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
0003	.1	.1	.0	.5	4.6	94.8	1919
0609	.2	.0	.1	.4	4.4	94.3	1846
1215	.2	.1	.1	.3	5.1	94.2	1807
1821	.2	*	*	.5	3.5	95.8	2084
TOT	12	3	5	33	345	7258	7656
PCT	.2	*	.1	.4	4.5	94.8	100.0

TABLE 12

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

HOUR (GMT)	<150 <500YD	<600 <1	<1000 <2	1000+ AND5+	AM <5/8 AND 5+	TOTAL OBS
0003	.3	.9	3.9	11.7	88.4	1568
0609	.3	.7	3.5	9.7	96.8	1439
1215	.5	1.0	3.9	9.5	86.6	1369
1821	.1	.5	3.1	9.2	87.7	1653
TOT	18	46	217	606	5206	6029
PCT	.3	.8	3.6	10.1	86.3	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
95/99	.0	.0	.0	.0	.0	.0	*	.0	2	*
90/94	.0	.0	.0	.2	.2	.1	.1	*	38	.6
85/89	.0	.0	*	.3	2.0	2.7	.8	.2	365	6.1
80/84	.0	.0	*	.8	10.4	29.8	15.6	3.0	3571	59.6
75/79	.0	.0	*	.3	1.8	12.6	13.7	3.1	1888	31.5
70/74	.0	.0	.0	.0	.1	.4	.9	.6	120	2.0
65/69	.0	.0	.0	.0	.0	.0	*	*	4	.1
TOTAL	0	0	5	99	869	2733	1866	416	5988	100.0
PCT	.0	.0	.1	1.7	14.5	45.6	31.2	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	.0	.0	.0
	.1	.1	.1	*	*	.0	.1	.2	.0	*
	.8	.5	.7	.4	.1	.3	1.1	1.2	.0	1.1
	7.0	4.0	4.7	2.7	2.1	2.7	12.8	14.3	.0	9.2
	4.7	2.9	2.5	1.2	.7	.6	5.1	9.3	.0	4.6
	.4	.3	.2	*	*	*	.2	.7	.0	.2
	.1	.0	.0	.0	.0	.0	.0	*	.0	.0
	13.0	7.8	8.1	4.4	2.9	3.8	19.3	25.7	.0	14.9

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0003	96	88	86	81	77	74	70	81.3	1975
0609	96	84	83	80	75	72	67	79.6	1876
1215	95	93	92	76	74	72	68	79.8	1869
1821	96	91	87	82	77	74	68	81.9	2172
TOT	96	88	85	81	76	72	67	80.5	7892

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0003	.0	1.7	17.8	49.7	24.9	5.9	76	1588
0609	.0	.7	7.5	45.2	37.9	8.7	79	1538
1215	.0	.4	6.0	38.6	44.0	11.0	81	1428
1821	.0	3.8	24.4	47.9	20.9	3.1	74	1663
TOT	0	108	489	2832	1953	435	77	6217

DECEMBER

PERIOD: (PRIMARY) 1953-1979 AREA 0006 MANZANILLO SE
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TABLE 17

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

AIR-SEA TMP DIF	65 66	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	% FOG	#O FOG
14/16	.0	.0	.0	.0	•	•	.0	.0	•	.0	.1
11/13	.0	.0	.0	•	.1	•	•	•	15	.0	.2
9/10	.0	.0	.0	•	.1	.1	•	•	36	.0	.2
7/8	.0	.0	.0	•	.3	.3	.3	.0	57	.0	.2
6	.0	.0	.0	.1	.3	.2	.2	.0	50	.0	.2
5	.0	.0	.0	.1	.6	.5	.2	.0	97	.0	1.4
4	.0	.0	.0	.3	.6	.6	.1	.0	126	.0	1.6
3	.0	.0	.1	.6	.9	.7	•	.0	140	.0	2.1
2	.0	.0	•	.6	1.1	1.0	.3	.0	335	.0	4.7
1	.0	.0	.1	1.0	3.2	1.0	.6	.0	353	.0	5.1
0	.0	•	.1	3.1	7.6	.8	•	.0	786	•	11.8
-1	.0	•	.3	5.6	7.1	.6	.0	.0	762	.0	11.4
-2	.0	•	.4	7.2	8.7	.1	.0	.0	1097	.0	16.4
-3	.0	•	.6	7.2	5.8	•	.0	.0	965	.0	12.9
-4	.0	.1	1.2	7.6	3.3	•	.0	.0	816	.0	12.2
-5	•	.1	1.0	5.6	1.8	•	.0	.0	556	.0	8.3
-6	•	.1	.9	2.9	.3	.0	.0	.0	272	.0	4.0
-7/-8	.0	.1	1.2	2.4	.3	.0	.0	.0	264	.0	3.9
-9/-10	.0	.2	.6	.4	•	.0	.0	.0	78	.0	1.2
-11/-13	•	.1	.1	•	.0	.0	.0	.0	18	.0	.3
-14/-16	.0	•	•	.0	.0	.0	.0	.0	2	.0	•
-17/-19	•	•	.0	.0	.0	.0	.0	.0	2	.0	•
TOTAL	7	43	444	2837	2959	390	60	5	6695	•	6689
PCT	.1	.6	6.6	42.4	43.5	5.8	.9	.1	100.0	.1	99.9

PERIOD: (OVER-ALL) 1953-1979

TABLE 18

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

A

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.8	2.4	•	.0	.0	.0	4.3
1-2	.9	6.4	.7	.0	.0	.0	8.0
3-4	.3	1.3	.4	•	.0	.0	2.1
5-6	.0	.3	.2	.0	.0	.0	.5
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.0	8.5	1.5	•	.0	.0	13.0

%E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	1.8	.0	.0	.0	.0	3.0
1-2	.5	4.0	.7	.0	.0	.0	5.2
3-4	.1	1.7	.4	.0	.0	.0	2.0
5-6	.0	.3	.2	.0	.0	.0	.5
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.8	7.8	1.5	•	.0	.0	11.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.6	.0	.0	.0	.0	2.3
1-2	.1	3.3	.6	.0	.0	.0	4.0
3-4	.2	.6	.3	.0	.0	.0	1.1
5-6	.0	.2	.2	.0	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	6.0	1.2	.0	.0	.0	8.2

%E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	2.0	.1	.0	.0	.0	2.8
1-2	.2	2.1	.1	.0	.0	.0	2.4
3-4	.1	.4	.3	.0	.0	.0	.8
5-6	.0	.1	.1	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	2.6	.7	.0	.0	.0	4.2

PERIOD: (DEC-FEB) 1963-1979 DECEMBER AREA CODE MANZANILLO SE
TABLE 18 (CONT) 17.6N 102.9W

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

	S							So							
HGT	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	.7	.1	.0	.0	.0	1.1	.4	.5	.1	.0	.0	.0	1.0	
1-2	.3	1.6	.2	.0	.0	.0	2.1	.6	1.2	.2	.0	.0	.0	2.0	
3-4	.2	.2	.1	.0	.0	.0	.5	.1	.2	.1	.0	.0	.0	.4	
5-6	.0	.1	.0	.0	.0	.0	.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	1.6	2.6	.4	.0	.0	.0	4.7	1.2	1.9	.4	.0	.0	.0	3.6	

															TOTAL
	SW							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	PCT
<1	2.0	3.3	.4	.0	.0	.0	5.7	1.6	3.0	.7	.0	.0	.0	5.4	5.7
1-2	1.9	7.8	.5	.0	.0	.0	10.2	1.6	10.0	1.1	.0	.0	.0	12.7	13.3
3-4	.3	1.8	.6	.0	.0	.0	2.6	.2	2.6	.5	.0	.0	.0	3.3	5.3
5-6	.0	.3	.2	.0	.0	.0	.6	.0	.4	.2	.0	.0	.0	.6	1.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.9	13.4	1.8	.0	.0	.0	19.0	3.2	17.7	5.1	.0	.0	.0	26.1	87.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	22.8	10.9	.7	.0	.0	.0	34.4	
1-2	5.4	33.4	4.8	.0	.0	.0	43.3	
3-4	1.1	8.2	3.5	.0	.0	.0	13.0	
5-6	.0	1.7	1.4	.1	.0	.0	3.2	
7	.0	.2	.2	.1	.0	.0	.6	
8-9	.0	.2	.2	.1	.0	.0	.4	
10-11	.0	.0	.1	.1	.0	.0	.3	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1660
TOT PCT	29.8	54.7	11.2	.4	.0	.0	100.0	

PERIOD: (DEC-FEB) 1949-1979 .PAGE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	PEAK HGT
<5	12.3	25.4	29.7	3.4	.7	.2	.1	•	•	•	.0	.0	.0	.0	.0	.0	.0	.0	.0	2922	2
5-6	.4	2.6	5.6	3.0	.9	.2	•	•	•	.1	•	.0	.0	.0	.0	.0	.0	.0	.0	685	4
8-9	.1	1.1	2.5	1.3	.3	.1	•	•	•	.1	•	.0	.0	.0	.0	.0	.0	.0	.0	287	4
10-11	.0	.3	.5	.5	.2	•	•	•	•	•	•	.0	.0	.0	.0	.0	.0	.0	.0	136	4
12-13	.0	.0	.4	.4	.3	.1	•	•	•	•	•	.0	.0	.0	.0	.0	.0	.0	.0	69	4
>13	.0	.0	.2	.3	.2	.1	•	•	•	•	•	.0	.0	.0	.0	.0	.0	.0	.0	37	7
INDET	15.2	2.7	2.2	.6	.2	•	•	•	•	•	•	•	.0	.0	.0	.0	.0	.0	.0	1045	1
TOTAL	1396	1716	1378	503	179	42	16	9	7	3	1	0	0	0	0	0	0	0	0	5384	2
PCT	26.6	32.6	26.5	9.7	3.6	.8	.3	.2	.1	.1	•	•	.0	.0	.0	.0	.0	.0	.0	100.0	

ANNUAL

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1861-1979

AREA 0006 MANZANILLO SE
17.0N 102.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	1.8	.8	.7	.0	.0	.0	*	3.1	1.2	2.4	.2	*	1.5	*		91.5
NE	3.3	1.0	1.2	.0	.0	.0	.0	5.4	1.8	3.7	.3	.0	2.4	.0		87.0
E	4.0	1.9	1.2	.1	.0	.0	*	6.9	3.2	2.7	.1	.0	2.2	.1		85.1
SE	3.3	1.8	.9	.0	.0	.0	.0	5.5	2.9	2.2	.1	*	1.7	.1		87.1
S	2.8	1.3	.9	.0	.0	.0	.0	4.8	2.4	2.2	.1	.0	1.4	*		86.1
SW	1.9	1.0	.6	.0	.0	.0	*	3.5	1.6	2.0	.4	.0	1.9	.0		90.9
W	1.1	.5	.3	.0	.0	.0	.0	1.9	.9	2.1	.2	.0	1.5	*		93.3
NW	1.1	.5	.3	.0	.0	.0	.0	1.9	.8	2.4	.2	.0	1.2	.1		92.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.5	.3	.3	.0	.0	.0	.0	1.2	.7	3.0	.2	.0	1.6	*		91.4
TOT PCT	1.9	.9	.6	.0	.0	.0	*	3.3	1.5	2.4	.2	*	1.7	*		91.0
TOT OBS:	98566															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER 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[illegible]	1.2	.6	.4	.0	.0	.0	.0	2.2	.9	.5	.1	.0	1.4	*		94.7
0603	1.9	1.0	.6	.0	.0	.0	*	3.4	1.6	5.4	.2	*	1.1	*		88.5
1215	3.2	1.4	.8	.0	.0	.0	*	5.3	2.1	4.2	.3	*	1.8	*		86.7
1821	1.5	.7	.5	.0	.0	.0	*	2.7	1.4	.2	.2	.0	2.3	.1		93.7
TOT PCT	1.9	.9	.6	.0	.0	.0	*	3.3	1.5	2.4	.2	*	1.7	*		90.9
TOT OBS:	101762															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.0	5.5	.9	*	*	*		8.5	6.5	4.2	4.7	7.8	4.9	12.6	10.4	9.9	8.5
NE	1.1	3.2	.4	*	*	*		4.8	6.5	1.9	2.2	3.2	3.1	7.8	7.8	6.2	4.4
E	1.2	4.3	1.6	.4	.1	*		7.5	8.4	3.8	5.2	5.7	5.5	9.7	10.2	10.6	9.8
SE	1.1	4.4	2.1	.5	.1	*		8.2	8.5	8.0	9.0	7.2	8.2	6.5	8.4	10.6	10.4
S	1.0	2.9	.7	.1	*	*		4.6	6.7	7.0	5.1	4.1	5.4	2.6	2.9	4.7	5.2
SW	1.2	3.7	.5	.1	*	*		5.5	6.5	10.3	6.7	4.4	8.5	2.6	3.4	4.5	6.2
W	3.3	16.0	5.2	.2	*	*		24.8	8.1	37.3	31.9	26.7	34.3	16.4	18.7	18.6	22.3
NW	3.0	15.6	5.7	.2	*	*		24.6	8.3	21.2	26.4	28.9	23.5	26.5	20.0	21.8	21.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	11.4							11.4	.0	6.3	8.9	12.1	8.7	15.2	9.1	13.2	5.3
TOT OBS							105317		7.1	24721	1850	23275	1383	22704	2860	26449	1671
TOT PCT	25.2	55.8	17.2	1.5	.2	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	5.2	3.2	.2	*	*		8.5	6.5	4.2	7.7	12.3	9.8
NE	3.1	1.6	.1	*	*		4.8	6.5	1.9	3.2	7.8	6.3
E	3.5	3.1	.7	.2	*		7.5	8.4	3.9	5.7	9.8	10.5
SE	3.4	3.6	1.0	.2	*		8.2	8.5	8.1	7.2	6.7	10.6
S	2.6	1.8	.2	*	*		4.6	6.7	6.9	4.2	2.7	4.7
SW	3.4	2.0	.1	*	*		5.5	6.5	10.0	4.6	2.7	4.6
W	11.0	12.6	1.1	.1	*		24.8	8.1	37.0	27.1	16.8	18.8
NW	10.4	12.8	1.2	.1	*		24.6	8.3	21.6	28.6	26.8	21.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	11.4						11.4	.0	6.5	11.8	14.5	12.7
TOT OBS						105317		7.1	26571	24658	25568	28520
TOT PCT	53.9	40.7	4.7	.6	.1		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1861-1979

AREA 0006 MANZANILLO SE
17.6N 102.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY H .R (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	6.5	11.3	58.1	22.0	1.8	.3	.1	8.1	100.0	26571
06&09	11.8	11.5	55.3	19.5	1.6	.2	.1	7.5	100.0	24658
12&15	14.5	14.2	55.7	14.1	1.3	.2	*	6.5	100.0	25568
18&21	12.7	17.8	54.1	13.6	1.4	.3	*	6.5	100.0	28520
*								7.1		105317
	11.4	12.8	55.8	17.2	1.5	.2	*		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.0	1.9	2.0	.8		3.5
NE	1.8	1.0	1.3	.6		3.9
E	1.9	1.5	2.4	1.6		4.3
SE	1.6	1.7	3.0	1.8		4.3
S	1.2	1.1	1.5	.9		4.0
SW	1.9	1.3	1.6	.7		3.7
W	11.2	6.0	6.0	1.9		3.3
NW	11.5	5.4	5.5	1.9		3.3
VAR	.0	.0	.0	.0		.0
CALM	5.6	2.6	2.5	.7		3.1
TOT OBS					80503	3.5
TOT PCT	40.7	22.6	25.9	10.8	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	*	*	.1	.3	.5	.2	.1	*	*	*	7.3	
NE	*	*	.1	.2	.3	.2	.1	*	*	*	3.7	
E	.1	.1	.2	.6	.8	.3	.2	.1	*	*	5.0	
SE	.1	.1	.2	.7	1.0	.4	.2	.1	*	*	5.4	
S	*	*	.1	.3	.4	.2	.1	*	*	*	3.5	
SW	*	*	.1	.3	.4	.2	.1	*	*	*	4.3	
W	.1	*	.2	.8	1.4	.7	.3	.1	.1	.1	21.4	
NW	.1	*	.1	.7	1.4	.7	.3	.1	.1	.1	20.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	*	.1	.3	.6	.3	.1	*	*	.1	10.0	
TOT PCT	.5	.3	1.0	4.3	6.8	3.1	1.5	.5	.3	.3	81.4	80503
												100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >5OYD	= OR >0
= OR >6500	.6	.6	.6	.6	.6	.6	.6	.6
= OR >5000	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
= OR >3500	2.3	2.5	2.6	2.6	2.6	2.6	2.6	2.6
= OR >2000	5.0	5.6	5.6	5.7	5.7	5.7	5.7	5.7
= OR >1000	10.7	12.1	12.4	12.4	12.4	12.4	12.4	12.4
= OR >600	13.8	16.2	16.6	16.7	16.7	16.7	16.7	16.7
= OR >300	14.4	17.0	17.5	17.6	17.7	17.7	17.7	17.7
= OR >150	14.5	17.2	17.7	7.9	17.9	17.9	18.0	18.0
= OR > 0	14.7	17.5	18.2	18.3	18.4	18.4	18.5	18.5

TOTAL NUMBER OF OBS: 42869 PCT FREQ NH <5/8. 81.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
21.2	19.9	18.0	13.5	8.4	5.1	4.9	3.5	5.0 .4	67610

ANNUAL

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1861-1979

AREA 0006 MANZANILLO SE
17.6N 102.9W

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	*	*	*	*	*	*	*	.0	.0	.1	
	NO PCP	*	*	*	*	.0	*	*	*	.0	*	*	
	TOT %	*	*	*	*	*	*	*	*	.0	*	.1	
1/2<1	PCP	*	*	*	*	*	*	*	*	.0	*	.1	
	NO PCP	*	*	*	*	*	*	*	*	.0	*	*	
	TOT %	*	*	*	*	*	*	*	*	.0	*	.1	
1<2	PCP	*	*	*	*	*	*	*	*	.0	*	.2	
	NO PCP	*	*	*	*	*	*	*	*	.0	*	.1	
	TOT %	*	*	*	.1	*	*	*	*	.0	*	.2	
2<5	PCP	*	*	.1	.1	*	*	.1	*	.0	*	.5	
	NO PCP	*	*	.1	.1	*	*	.1	.1	.0	*	.4	
	TOT %	.1	.1	.2	.2	.1	.1	.1	.1	.0	*	.9	
5<10	PCP	.1	.1	.3	.3	.1	.1	.2	.1	.0	*	1.3	
	NO PCP	.4	.3	.6	.7	.3	.3	1.3	1.2	.0	.6	5.8	
	TOT %	.5	.4	.9	1.0	.5	.4	1.4	1.4	.0	.6	7.1	
10+	PCP	.1	.1	.2	.3	.1	.1	.2	.2	.0	.1	1.2	
	NO PCP	7.9	4.2	6.2	6.7	4.0	4.9	23.4	22.9	.0	10.3	90.4	
	TOT %	8.0	4.3	6.4	7.0	4.1	5.0	23.3	23.1	.0	10.4	91.6	
	TOT OBS												98309
	TOT PCT	8.6	4.8	7.5	8.2	4.7	5.5	24.9	24.6	.0	11.1	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	.0	.0	*	.0	*	*	*	.0	*	*	
	4-10	*	*	*	*	*	*	*	*	.0		.1	
	11-21	*	*	*	*	*	*	*	*	.0		*	
	22+	*	*	*	*	*	*	*	*	.0		*	
	TOT %	*	*	*	*	*	*	*	*	.0	*	.2	
1/2<1	0-3	.0	*	.0	.0	.0	.0	*	*	.0	*	*	
	4-10	*	*	*	*	*	*	*	*	.0		*	
	11-21	*	*	*	*	*	*	*	*	.0		*	
	22+	*	*	*	*	*	*	*	.0	.0		*	
	TOT %	*	*	*	*	*	*	*	*	.0	*	.1	
1<2	0-3	*	*	*	*	*	*	*	*	.0	*	*	
	4-10	*	*	*	*	*	*	*	*	.0		.1	
	11-21	*	*	*	*	*	*	*	*	.0		.1	
	22+	*	*	*	*	*	*	*	*	.0		.1	
	TOT %	*	*	.1	.1	*	*	*	*	.0	*	.3	
2<5	0-3	*	*	*	*	*	*	*	*	.0	.1	.2	
	4-10	*	*	.1	.1	*	*	.1	.1	.0		.4	
	11-21	*	*	.1	.1	*	*	*	*	.0		.4	
	22+	*	*	.1	.1	*	*	*	*	.0		.2	
	TOT %	.1	.1	.2	.3	.1	.1	.2	.2	.0	.1	1.1	
5<10	0-3	.1	.1	.1	.1	.1	.1	.2	.2	.0	.6	1.4	
	4-10	.3	.2	.3	.4	.2	.2	.8	.8	.0		3.3	
	11-21	.1	.1	.3	.3	.1	.1	.3	.3	.0		1.7	
	22+	*	*	.2	.2	*	*	.1	*	.0		.5	
	TOT %	.5	.4	.9	1.0	.5	.4	1.4	1.4	.0	.6	7.0	
10+	0-3	1.9	1.0	1.1	1.0	.9	1.1	3.0	2.8	.0	10.6	23.3	
	4-10	5.2	3.0	3.9	3.9	2.7	3.4	15.1	14.7	.0		51.9	
	11-21	.8	.3	1.2	1.7	.5	.4	4.9	5.3	.0		15.1	
	22+	*	*	.2	.3	.1	*	.2	.2	.0		.9	
	TOT %	7.9	4.3	6.4	6.9	4.1	5.0	23.2	23.0	.0	10.6	91.3	
	TOT OBS												102330
	TOT PCT	8.5	4.8	7.5	8.2	4.6	5.5	24.9	24.6	.0	11.2	100.0	

PERIOD: (PRI ARY) 1953-1979
(OVER ALL) 1861-1979

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NM >9/8) 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 7499	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00E03	.3	.2	.7	3.4	6.3	2.8	1.4	.5	.3	.4	16.3	83.7	22362
06E09	.6	.2	1.0	4.3	6.6	2.9	1.4	.3	.2	.4	17.9	82.1	20081
12E15	.8	.3	1.4	5.7	7.9	3.3	1.3	.4	.3	.3	21.6	78.4	20358
18E21	.4	.2	.9	3.4	5.5	3.0	1.5	.6	.3	.2	16.0	84.0	23613
TOT													86414
PCT	.5	.2	1.0	4.1	6.5	3.0	1.4	.5	.3	.3	17.8	82.2	100.0

TABLE 11

PERCENT FREQ. NCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.1	.1	.2	.7	5.4	93.5	26227
06E09	.2	.1	.3	1.2	7.3	1.0	24975
12E15	.2	.1	.4	1.7	9.6	87.9	25643
18E21	.2	.1	.3	1.0	6.0	92.4	28723
TOT							105573
PCT	.2	.1	.3	1.1	7.0	91.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NM >9/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NM <5/8 AND 5+	TOTAL OBS
00E03	.3	1.3	5.1	12.0	82.9	21490
06E09	.7	2.0	7.0	12.0	81.0	19215
12E15	.8	2.7	9.2	1?.5	77.2	19514
18E21	.4	1.6	5.6	.1.2	83.2	22650
TOT						82869
PCT	.6	1.9	6.6	12.1	81.2	100.0

TABLE 3

PERCENT FREQUENCY OF RELAT /E HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60 9	70-79	80-89	90-100	TOTAL OBS	PCT FRE
95/99	.0	*	*	*	*	*	*	*		.1
90/94	.0	*	*	.2	.8	.4	.2	*		1.6
85/89	.0	*	*	.3	3.2	8.4	2.4	.5		14.9
80/84	.0	.0	*	.5	6.1	22.9	19.3	3.4		52.2
75/79	.0	.0	*	.2	1.6	10.1	10.5	4.3		26.8
70/74	.0	.0	*	*	.2	.9	1.9	1.1		4.2
65/69	.0	.0	.0	.0	*	*	.1	.1		.2
60/64	.0	.0	.0	*	.0	.0	.0	*		*
TOTAL									62433	100.0
PCT	.0	*	.1	1 3	12.0	42.8	34.3	9.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	*	*	*	*	*	*	*	*	.0	*
	.1	.1	.1	.1	.1	.1	.4	.3	.0	.2
	1.0	.6	1.1	1.5	.9	1.0	4.0	3.1	.0	1.7
	4.3	2.6	4.3	4.7	2.7	3.0	12.8	11.6	.0	6.2
	2.7	1.3	1.8	1.6	.9	1.1	6.6	7.8	.0	3.1
	.5	.2	.2	.1	.1	.1	1.0	1.6	.0	.4
	*	*	*	*	*	*	.1	.1	.0	*
	.0	.0	.0	.0	.0	*	.0	.0	.0	.0
	8.6	4.8	7.6	8.1	4.6	5.4	24.9	24.5	.0	11.5

TABLE 15

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

HOUR (GMT)	MAX	99%	9 %	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	99	90	87	82	77	74	63	82.3	26897
06E09	97	85	84	80	75	73	63	80.1	25332
12E15	95	8?	83	80	75	72	60	79.2	26355
18E21	99	?	88	83	77	74	64	82.7	29254
TOT	99	.0	8(	81	76	73	60	81.1	107838

TABLE 16

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	1.5	15.*	5G.5	26.2	6.0	77	21509
06E09	.C	.6	5.5	3?.8	43.7	11.5	81	20647
12E15	.C	.4	4.2	32.4	47.3	15.6	82	20333
18E21	.0	2.9	20.6	48.5	22.2	5.4	75	22665
TOT	0	1150	9983	36370	27514	6137	79	85154

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PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1861-1979

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TABLE 17

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

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	≤1 84	85 88	89 92	>92	TOT	# FOG	WO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	*	*	.0	4	.0	*
17/19	.0	.0	.0	.0	.0	.0	*	.0	*	*	10	.0	*
14/16	.0	.0	.0	.0	.0	*	*	*	*	*	51	.0	.1
11/13	.0	.0	.0	.0	*	*	.1	.1	*	.1	230	.0	.2
9/10	.0	.0	.0	.0	*	*	.1	.1	.1	.1	431	.0	.5
7/8	.0	.0	.0	.0	*	.1	.2	.3	.1	.1	955	*	1.0
6	.0	.0	.0	*	*	.1	.2	.3	.3	*	841	.0	.9
5	.0	.0	.0	*	.1	.2	.5	.6	.4	*	1469	*	1.8
4	.0	.0	.0	*	.1	.3	.9	1.0	.4	*	2476	*	2.7
3	.0	.0	.0	*	.1	.4	.6	1.1	.3	*	2514	*	2.7
2	.0	.0	*	*	.2	.8	2.3	2.0	.9	*	5150	*	5.5
1	.0	.0	.0	*	.2	1.0	2.6	2.0	.1	*	5642	*	6.1
0	.0	*	*	.1	.6	2.6	6.5	2.7	.1	*	11604	*	12.5
-1	.0	.0	*	.1	.7	2.8	6.3	1.7	*	.0	10698	*	11.6
-2	.0	*	*	.1	1.1	4.7	8.1	.9	*	*	13756	*	14.9
-3	.0	.0	*	.1	1.1	4.2	5.4	.5	*	.0	10431	*	11.3
-4	.0	*	*	.2	1.5	4.6	4.3	.2	*	.0	9902	*	10.8
-5	.0	.0	*	.2	1.2	3.5	2.4	.1	.0	.0	6766	*	7.5
-6	.0	*	*	.1	.9	2.2	.9	*	.0	.0	3815	*	4.1
-7/-8	.0	.0	*	.2	1.1	2.0	.6	*	.0	.0	3726	*	4.0
-9/-10	.0	*	*	.1	.5	.5	.1	*	.0	.0	1146	*	1.2
-11/-13	*	*	*	.1	.2	.1	*	.0	.0	.0	404	.0	.4
-14/-16	.0	*	*	*	*	*	*	.0	.0	.0	65	.0	.1
-17/-19	.0	*	*	*	*	.0	.0	.0	.0	.0	16	.0	*
TOTAL											92329		
PCT	*	*	.1	1.4	9.5	30.2	42.5	13.7	2.2	.3	100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	1.5	*	.0	.0	.0	2.5
1-2	.5	3.2	.3	.0	.0	.0	4.1
3-4	.1	1.0	.3	*	.0	.0	1.6
5-6	*	.2	.2	*	.0	.0	.4
7	.0	*	*	*	.0	.0	.1
8-9	.0	*	*	*	.0	.0	*
10-11	.0	.0	*	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	6.0	1.0	*	.0	.0	8.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.1	*	.0	.0	.0	1.7
1-2	.3	1.8	.2	.0	.0	.0	2.3
3-4	*	.5	.2	*	.0	.0	.7
5-6	.0	.1	.1	*	.0	.0	.2
7	.0	*	*	*	.0	.0	*
8-9	.0	*	*	*	.0	.0	*
10-11	.0	.0	*	*	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	3.5	.6	*	*	*	4.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.1	*	.0	.0	.0	1.6
1-2	.3	2.2	.3	.0	.0	.0	2.9
3-4	.1	.3	.6	*	.0	.0	1.5
5-6	*	.2	.4	.1	*	.0	.7
7	.0	*	.2	.1	.0	.0	.3
8-9	.0	*	.1	.1	.0	*	.1
10-11	.0	.0	*	.1	*	.0	.1
12	.0	.0	.0	*	*	*	*
13-16	.0	.0	*	*	*	.0	*
17-19	.0	.0	.0	*	*	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	*	.0	.0	*
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	4.3	1.6	.4	.1	*	7.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.0	*	.0	.0	.0	1.6
1-2	.3	2.1	.4	.0	.0	.0	2.7
3-4	.1	.3	.9	.1	.0	.0	1.6
5-6	*	.2	.5	*	*	.0	.8
7	.0	.1	.2	.2	*	.0	.4
8-9	.0	*	.1	*	*	.0	.2
10-11	.0	.0	*	*	*	.0	.1
12	.0	.0	*	*	*	*	*
13-16	.0	.0	*	*	*	.0	.1
17-19	.0	.0	.0	*	*	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	*	.0	.0	*
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	4.2	2.2	.6	.1	*	7.9

PERIOD: (OVER-ALL) 1963-1979 ANNUAL AREA 0006 MANZANILLO SE

TABLE 18 (CONT) 17.6N 102.9W

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.7	*	.0	.0	.0	1.1
1-2	.2	1.6	.2	.0	.0	.0	2.0
3-4	*	.6	.2	*	.0	.0	.9
5-6	*	.1	.1	*	.0	.0	.3
7	.0	*	.1	*	.0	.0	.1
8-9	.0	*	*	*	.0	.0	*
10-11	.0	.0	*	*	.0	.0	*
12	.0	.0	*	*	*	*	*
13-16	.0	.0	*	*	.0	.0	*
17-19	.0	.0	.0	*	.0	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	3.0	.7	.1	*	*	4.5

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.0	*	.0	.0	.0	1.5
1-2	.3	2.1	.2	.0	.0	.0	2.6
3-4	*	.6	.2	*	.0	.0	.9
5-6	*	.1	.1	*	*	.0	.2
7	.0	*	*	*	.0	.0	.1
8-9	.0	*	*	*	*	.0	*
10-11	.0	.0	*	*	.0	.0	*
12	.0	.0	*	*	*	*	*
13-16	.0	.0	*	*	*	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	*	*
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	3.8	.6	.1	*	*	5.4

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.4	3.2	.1	.0	.0	.0	4.7
1-2	1.0	9.3	1.8	*	.0	.0	12.1
3-4	.2	3.5	2.3	*	*	.0	6.1
5-6	*	.5	1.1	.1	*	.0	1.7
7	.0	.1	.2	.1	*	.0	.4
8-9	.0	*	*	*	*	.0	.1
10-11	.0	.0	*	*	*	.0	*
12	.0	.0	*	.0	*	.0	*
13-16	.0	.0	*	.0	*	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.6	16.7	5.6	.2	*	.0	25.2

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	3.2	.1	.0	.0	.0	4.6
1-2	1.0	9.4	1.8	.0	.0	.0	12.2
3-4	.2	3.3	2.8	.1	.0	.0	6.3
5-6	*	.6	1.1	.1	*	.0	1.8
7	.0	.1	.3	*	*	.0	.4
8-9	.0	*	.1	*	.0	.0	.1
10-11	.0	.0	*	*	*	.0	*
12	.0	.0	.0	.0	*	*	*
13-16	.0	.0	*	.0	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.5	16.7	6.1	.2	*	*	25.6

TOTAL PCT

HGT	TOTAL PCT
<1	
1-2	
3-4	
5-6	
7	
8-9	
10-11	
12	
13-16	
17-19	
20-22	
23-25	
26-32	
33-40	
41-48	
49-60	
61-70	
71-86	
87+	
TOT PCT	84.4

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	12.7	.3	.0	.0	.0	30.6	
1-2	4.8	31.0	5.1	*	.0	.0	40.9	
3-4	.8	10.8	7.4	.2	*	.0	19.2	
5-6	.1	1.8	3.6	.4	*	.0	6.0	
7	.0	.3	1.0	.4	*	.0	1.8	
8-9	.0	.1	.3	.2	*	*	.7	
10-11	.0	.0	.1	.2	*	.0	.3	
12	.0	.0	*	*	*	*	.1	
13-16	.0	.0	*	.1	*	*	.2	
17-19	.0	.0	.0	*	*	.0	.1	
20-22	.0	.0	.0	*	*	*	*	
23-25	.0	.0	.0	*	*	.0	*	
26-32	.0	.0	.0	.0	.0	*	*	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	23.4	58.9	17.9	1.6	.2	*	100.0	2 839

PERIOD: (OVER-ALL) 1949-1979 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	7.7	20.8	15.4	4.9	1.3	.5	.2	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	36551	3
6-7	.2	2.8	6.8	5.2	2.0	.8	.4	.2	.1	*	*	*	*	.0	.0	.0	.0	.0	.0	13555	4
8-9	.1	1.1	2.7	2.3	1.4	.6	.3	.2	.1	*	*	*	*	*	.0	.0	.0	.0	.0	6479	5
10-11	.0	.9	1.1	.8	.5	.3	.2	.1	.1	*	*	*	.0	*	.0	.0	.0	.0	.0	2884	5
12-13	.0	.0	.8	.5	.3	.1	.1	*	*	*	*	*	*	*	*	.0	.0	.0	.0	1336	5
>13	.0	*	*	.4	.2	.1	.1	*	*	*	*	*	*	*	.0	.0	.0	.0	.0	597	7
INDET	9.8	2.0	2.0	.9	.4	.1	.1	*	*	*	*	*	.0	*	.0	.0	.0	.0	.0	10928	1
TOTAL PCT	17.8	27.5	28.7	15.0	5.9	2.5	1.3	.5	.5	.2	.1	*	*	*	*	.0	.0	.0	.0	72330 100.0	3

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1861-1979

AREA 0006 MANZANILLO SE
17.6N 102 9W

TABLE 20

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

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	*	.0	*	.0	*	.0	.0	7	*
93/94	*	.0	*	*	.0	*	.1	.1	*	.1	.1	.0	40	*
91/92	*	.1	*	.1	.1	.3	.5	.7	.4	.5	.2	*	263	.3
89/90	.2	.1	.1	.2	1.0	1.7	2.6	4.5	3.1	2.4	1.1	.5	1476	1.5
87/88	.8	.6	.7	.9	4.3	6.7	13.1	26.0	15.0	12.0	6.5	2.4	7181	7.3
85/86	6.0	2.9	2.6	4.8	13.9	26.6	37.6	60.2	37.0	37.2	28.0	13.1	20999	21.2
83/84	20.3	13.9	10.0	12.2	22.9	31.9	30.7	23.3	29.2	32.6	36.4	30.5	24271	24.5
81/82	36.7	33.0	25.1	26.5	28.6	21.5	12.0	9.3	12.5	12.5	25.8	32.9	22015	22.3
79/80	20.8	26.2	24.1	23.6	15.4	5.6	2.1	1.1	1.9	1.9	4.7	15.7	11449	11.6
77/78	9.1	13.4	18.0	16.6	7.9	2.2	.7	.4	.5	.5	1.3	4.3	6097	6.2
75/76	3.5	5.8	10.2	9.0	3.4	.9	.3	.2	.2	.3	.6	1.7	2950	3.0
73/74	1.6	2.3	4.9	3.7	1.1	.4	.2	.1	.1	.1	.2	.7	1254	1.3
71/72	.6	.9	2.4	1.7	.5	.1	.1	*	*	*	.1	.2	542	.5
69/70	.2	.5	1.2	.6	.3	*	*	*	*	.0	*	.1	234	.2
67/68	.1	.2	.3	.2	.1	*	*	.0	*	.0	*	*	76	.1
65/66	.0	*	.2	.1	.0	*	.0	.0	.0	.0	.0	*	25	*
63/64	.0	*	.1	*	.0	*	.0	.0	.0	.0	.0	.0	11	*
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	7732	7477	8387	8280	9136	8584	8765	8469	8439	8473	7499	7251	98892	100.0
MEAN	81.0	80.2	79.2	79.8	81.9	83.7	84.6	85.2	84.7	84.6	83.7	82.2	82.5	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1012	1013	1013	1012	1013	1013	1014	1012	1013	7622
FEB	1011	1012	1013	1012	1012	1014	1014	1012	1013	7715
MAR	1011	1012	1013	1011	1012	1012	1014	1012	1012	8657
APR	1010	101.	1012	1011	1012	1012	1013	1011	1012	8553
MAY	1010	101.	1012	1010	1011	1011	1012	1010	1011	9502
JUN	1009	1010	1011	1009	1011	1011	1011	1010	1011	8911
JUL	1010	1011	1012	1010	1011	1012	1012	1010	1012	9044
AUG	1010	1011	1012	1010	1011	1011	1012	1010	1011	8919
SEP	1009	1010	1011	1009	1010	1010	1011	1009	1010	8794
OCT	1010	1010	1012	1009	1011	1011	1012	1010	1011	8786
NOV	1011	1012	1012	1010	1012	1012	1013	1011	1012	8056
DEC	1012	1012	1013	1011	1012	1013	1014	1012	1013	7442
ANN	1010	1011	1012	1010	1012	1012	1013	1011	1012	102201
OBS	24009	1136	22923	1471	22915	2200	24325	1722		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	995	1006	1009	1012	1013	1014	1017	1018	1023
FEB	969	1006	1009	1011	1013	1014	1016	1018	1024
MAR	1000	1006	1008	1011	1012	1014	1016	1017	1024
APR	995	1006	1009	1010	1012	1013	1015	1017	1023
MAY	998	1004	1007	1010	1011	1013	1015	1016	1021
JUN	995	1003	1006	1009	1011	1012	1014	1015	1023
JUL	994	1003	1008	1010	1012	1013	1015	1016	1025
AUG	995	1005	1007	1010	1012	1013	1015	1016	1023
SEP	995	1002	1006	1009	1010	1012	1014	1015	1020
OCT	995	1003	1007	1009	1011	1012	1014	1016	1022
NOV	996	1005	1008	1011	1012	1013	1015	1017	1021
DEC	994	1007	1009	1011	1013	1014	1016	1019	1026

JANUARY

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1861-1979

AREA 0007 ACAPULCO SOUTH
15.7N 99.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.7	.3	.2	.0	.0	.0	.0	1.2	.4	.8	.1	.0	.6	.0	.0	96.9
NE	1.1	.5	.2	.0	.0	.0	.0	1.6	.6	.3	.6	.0	.6	.0	.0	96.3
E	.4	.2	.3	.0	.0	.0	.0	1.0	.5	.2	.1	.0	.9	.0	.0	97.5
SE	1.0	.0	.0	.0	.0	.0	.0	1.0	1.0	.0	.3	.0	1.1	.0	.0	96.7
S	.0	.4	.0	.0	.0	.0	.0	.4	.4	.9	.0	.0	.8	.0	.0	97.5
SW	.0	.0	.0	.0	.0	.0	.0	.0	.5	.2	.0	.3	.2	.0	.0	98.7
W	*	.6	.0	.0	.0	.0	.0	*	.2	.3	.2	*	.3	.0	.0	98.8
NW	.2	.2	.1	.0	.0	.0	.0	.4	.3	.5	.3	.0	.5	.1	.0	97.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.2	.1	.1	.0	.0	.0	.0	.4	.1	.3	.5	.0	1.5	.0	.0	97.3
TOT PCT	.3	.1	.1	.0	.0	.0	.0	.6	.3	.4	.3	*	.7	*	*	97.7
TOT OBS:	6976															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER 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
00E [illegible]	.2	.1	.1	.0	.0	.0	.0	.3	.2	.2	.3	.1	.2	.0	.0	98.7
0609	.5	.2	.2	.0	.0	.0	.0	.8	.5	.8	.2	.0	1.0	.1	.0	96.7
1215	.3	.2	.2	.0	.0	.0	.0	.7	.5	.9	.2	.1	.8	.0	.0	96.8
1821	.3	.1	.0	.0	.0	.0	.0	.4	.2	.0	.3	.0	.7	*	*	98.3
TOT PCT	.3	.1	.1	.0	.0	.0	.0	.5	.4	.4	.3	*	.7	*	*	97.7
TOT OBS:	7263															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)				
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	3.2	7.2	.9	.1	.0	.0		11.5	6.1	5.3	4.7	9.2	3.9	16.3	14.2	15.2	11.7
NE	1.6	5.4	1.0	.2	*	.0		8.3	7.2	4.7	6.0	6.8	7.4	10.0	12.7	11.2	7.0
E	1.6	5.6	1.1	.2	*	.0		8.5	7.4	6.3	5.3	7.4	3.7	9.1	7.3	11.4	3.5
SE	1.7	3.0	.4	*	.0	.0		4.8	6.1	5.5	2.3	4.8	5.4	2.7	4.7	6.1	3.1
S	.7	2.4	.2	.0	.0	.0		3.3	5.8	6.1	1.7	3.4	3.4	1.5	.8	2.7	3.5
SW	1.5	4.1	.4	.0	.0	.0		6.0	5.7	12.8	10.3	5.7	10.6	2.0	3.3	3.4	6.5
W	3.9	15.2	2.7	*	.0	.0		21.7	6.9	37.9	35.2	23.4	36.0	11.5	15.0	13.2	25.2
NW	3.6	13.9	2.1	*	.0	.0		19.7	6.6	13.1	19.5	19.3	19.8	25.0	24.3	20.4	27.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	16.3							16.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	2552	4325	664	45	2	0	7592		5.5	1709	150	1632	116	1623	220	2007	135
TOT PCT	33.6	57.0	8.7	.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	7.8	3.4	.2	*	.0		11.5	6.1	5.3	8.9	16.0	15.0
NE	4.9	2.9	.4	*	*		8.3	7.2	4.8	6.6	10.3	10.9
E	4.7	3.3	.4	.1	.0		8.5	7.4	6.3	7.2	8.9	11.3
SE	3.2	1.4	.1	.0	.0		4.8	6.1	5.3	4.8	2.9	5.9
S	2.2	1.0	*	.0	.0		3.3	5.8	5.7	3.	1.5	2.7
SW	4.1	1.9	*	.0	.0		6.0	5.7	12.6	6.0	2.1	3.6
W	12.1	9.3	.2	.0	.0		21.7	6.9	37.9	24.3	12.	14.0
NW	11.4	8.0	.2	.0	.0		19.7	6.6	13.2	19.3	24.9	21.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	16.3						16.3	.0	9.1	19.5	21.4	15.5
TOT OBS	5073	2381	125	11	1	7592		5.5	1859	1748	1843	2142
TOT PCT	66.8	31.4	1.6	.1	*		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00L03	9.1	14.8	63.6	11.6	.8	.C	.0	6.5	100.0	1859
06L09	19.5	15.5	55.1	9.3	.7	.C	.C	5.5	100.0	1748
12L15	21.4	16.1	54.6	7.3	.5	.1	.C	5.1	100.0	1843
18L21	15.5	22.0	54.8	7.0	.6	*	.C	5.1	100.0	2142
TOT	1237	1315	4325	664	49	2	0	5.5		7592
PCT	16.3	17.3	57.0	8.7	.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	7.8	2.2	1.3	.4		2.1
NE	5.6	1.5	.8	.3		2.0
E	5.3	1.8	1.4	.2		2.4
SE	2.7	1.1	.8	.1		2.5
S	2.2	.8	.3	.1		2.0
SW	3.7	.3	.8	.1		2.1
W	14.8	.1	2.4	.3		1.9
NW	14.0	.6	1.9	.4		1.8
VAR	.0	.'	.C	.0		.0
CALM	11.4	2.7	1.6	.2		1.7
TOT OBS	3850	1104	630	118	5711	2.0
TOT PCT	67.4	19.3	11.2	2.1	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 PCT	TOTAL OBS
N	*	.0	*	.1	.2	.1	.2	*	*	*	11.0	
NE	*	.0	*	.2	.1	.1	*	*	*	*	7.7	
E	.0	.0	.1	.1	.2	.2	.1	*	*	*	7.5	
SE	.0	*	*	.1	.2	.1	*	*	.C	.C	4.2	
S	.0	.0	.0	.1	.1	*	*	.0	.C	.C	3.1	
SW	.0	.C	*	.1	.2	*	.C	*	*	.C	5.6	
W	*	*	*	.1	.3	.2	.1	.0	*	.1	20.6	
NW	.0	.0	*	.2	.2	.2	.1	.1	.1	*	19.0	
VAR	.0	.0	.0	.0	.0	.0	.C	.C	.C	.C	.C	
CALM	*	.0	*	.1	.3	.2	.1	.C	*	*	15.1	
TOT OBS	4	3	13	60	102	71	36	13	10	11	5388	5711
TOT PCT	.1	.1	.2	1.1	1.8	1.2	.6	.2	.2	.2	94.3	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 >SCYD	: OR >C
: OR >65CO	.4	.4	.4	.4	.4	.4	.4	.4
: OR >5COO	.6	.6	.6	.6	.6	.6	.6	.6
: OR >3500	1.1	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	4.0	4.2	4.2	4.2	4.2	4.2	4.2	4.2
: OR >600	5.0	5.2	5.3	5.3	5.3	5.3	5.3	5.3
: OR >300	5.2	5.4	5.5	5.5	5.5	5.5	5.5	5.5
: OR >150	5.2	5.4	5.5	5.5	5.5	5.5	5.5	5.5
: OR > 0	5.3	5.5	5.6	5.6	5.6	5.6	5.6	5.6
TOTAL	314	327	332	333	333	333	334	334

TOTAL NUMBER OF OBS: 5947

PCT FREQ NH <5/8: 94.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
34.6	28.2	16.9	9.8	4.3	2.3	1.7	1.1	1.0 .1	6277

PERIOD: (PRIMARY) 1952-1979
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	*	.0	.0	.0	.0	.0	.0	*	.0	.1	.1	
	TOT %	*	.0	.0	.0	.0	.0	.0	*	.0	.1	.1	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
1<2	PCP	*	*	*	.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	.1	
2<5	PCP	*	*	*	*	.0	.0	.0	*	.0	.0	.1	
	NO PCP	.0	*	*	*	.0	*	*	*	.0	*	.1	
	TOT %	*	*	.1	*	.0	*	*	.1	.0	*	.2	
5<10	PCP	*	.1	*	*	.0	.0	*	*	.0	*	.2	
	NO PCP	.4	.2	.4	.2	.1	.2	.5	.5	.0	.3	3.0	
	TOT %	.4	.4	.4	.2	.1	.2	.5	.5	.0	.3	3.1	
10+	PCP	.1	*	*	*	*	.0	.0	*	.0	*	.2	
	NO PCP	11.0	7.8	8.2	4.5	3.1	5.8	21.2	19.4	.0	15.1	96.3	
	TOT %	11.1	7.9	8.3	4.5	3.2	5.8	21.2	19.4	.0	15.2	96.5	
	TOT OBS												6956
	TOT PCT	11.5	8.2	8.6	4.8	3.3	6.0	21.7	20.0	.0	15.6	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	.1	.1	
	4-10	*	*	*	.0	.0	.0	.0	*	.0		.1	
	11-21	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	*	.0	.0	.0	.0	*	.0	.1	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
1<2	0-3	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	
	4-10	.0	*	.0	*	.0	.0	.0	.0	.0		*	
	11-21	*	*	*	.0	.0	.0	*	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	*	*	.0	.0	*	.0	.0	.0	.1	
2<5	0-3	*	*	*	.0	.0	.0	.0	*	.0	*	.1	
	4-10	*	*	.1	*	.0	*	*	*	.0		.2	
	11-21	.0	.0	*	*	.0	*	*	*	.0		.1	
	22+	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	TOT %	*	*	.1	*	.0	*	*	.1	.0	*	.4	
5<10	0-3	.1	*	.1	.1	*	*	.2	.1	.0	.3	1.0	
	4-10	.2	.3	.2	.1	.1	.1	.3	.4	.0		1.6	
	11-21	.1	*	.1	*	*	*	*	*	.0		.4	
	22+	.0	*	*	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.4	.4	.4	.3	.1	.2	.5	.5	.0	.3	3.1	
10+	0-3	3.0	1.5	1.5	1.2	.7	1.4	3.4	3.5	.0	15.9	22.3	
	4-10	7.0	5.1	5.4	2.9	2.3	4.0	14.8	13.4	.0		55.1	
	11-21	.9	.9	1.0	.4	.2	.3	2.6	2.1	.0		8.3	
	22+	.1	.2	.2	.2	.0	.0	*	*	.0		.6	
	TOT %	11.0	7.7	8.1	4.5	3.2	5.8	21.1	19.0	.0	15.9	96.3	
	TOT OBS												7358
	TOT PCT	11.5	8.2	8.6	4.8	3.3	6.0	21.6	19.6	.0	16.4	100.0	

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PERIOD* (PRIMARY) 1952-1979
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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	.2	1.1	1.7	1.3	.6	.2	.3	.2	5.5	94.5	1557
04E09	.1	.1	.1	.8	1.6	1.5	.3	.1	.1	.2	4.9	95.1	1457
12E15	.1	.0	.1	1.4	2.2	.9	.8	.3	.1	.2	6.1	93.9	1465
18E21	.1	.1	.4	.9	1.4	1.1	.6	.2	.2	.1	5.1	94.9	1751
TOT	5	3	13	64	106	75	36	13	10	11	336	5892	6228
PCT	.1	*	.2	1.0	1.7	1.2	.6	.2	.2	.2	5.4	94.6	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	.2	.0	.1	.3	2.1	97.4	1839
04E09	.2	.0	.1	.4	4.0	95.3	1803
12E15	.1	.1	.2	.4	4.1	95.3	1865
18E21	.2	*	.1	.4	2.9	96.4	2166
TOT	13	2	7	29	249	7373	7673
PCT	.2	*	.1	.4	3.2	96.1	100.0

TABLE 12

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

HOUR (GMT)	<150 <5SYD	<600 <1	<1000 <5	1000+ ANDS+	NM <5/8 ANE 5+	TOTAL OBS
00E03	.1	.3	1.4	4.3	94.3	1479
04E09	.1	.4	1.4	3.9	94.5	1398
12E15	.1	.2	1.8	4.7	93	1402
18E21	.1	.7	1.8	3.8	94	1669
TOT	6	23	96	248	5E	5947
PCT	.1	.4	1.6	4.2	94.2	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	5	.1
90/94	.0	.0	.0	.2	.3	.1	.1	.0	40	.7
85/89	.0	.0	.0	.5	2.8	2.8	.5	.2	396	6.8
80/84	.3	.0	.2	1.0	12.1	33.0	19.8	2.7	3716	63.8
75/79	.0	.0	.1	.3	1.4	11.0	11.2	3.5	1609	27.6
70/74	.0	.0	.0	.0	*	.3	.3	.4	61	1.0
65/69	.0	.0	.0	.0	.0	.0	*	.0	1	*
TOTAL	0	0	14	115	986	2748	1568	395	5826	100.0
PCT	.0	.0	.2	2.0	16.9	47.2	26.9	6.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	.0	.0	*	*	.0	.1
	.1	.1	.1	*	*	*	.1	.1	.0	.1
	.8	.5	.5	.4	.2	.4	1.7	1.4	.0	.8
	6.6	4.9	5.2	3.1	2.5	4.5	15.3	12.4	.2	5.2
	3.7	2.6	2.8	1.1	.6	1.1	4.5	5.6	.0	5.7
	.2	.2	.1	*	.0	*	.1	.2	.0	.2
	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
	11.4	8.3	8.8	4.6	3.3	6.0	21.7	19.7	.2	16.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	94	89	86	82	78	75	68	81.7	1893
04E09	96	84	82	80	77	74	68	79.9	1834
12E15	95	84	82	79	75	73	70	78.9	1912
18E21	95	90	87	82	78	75	70	82.2	2209
TOT	96	88	85	81	77	74	68	80.7	7848

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-85	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	2.4	22.4	50.3	19.8	4.9	75	1459
04E09	.0	1.0	9.3	49.8	32.4	7.6	79	1437
12E15	.0	1.2	7.7	41.2	39.1	10.7	80	1462
18E21	.0	3.9	25.8	47.5	18.4	4.5	74	1681
TOT	0	133	1020	2870	1642	414	77	6079

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1861-1979

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TABLE 17

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

AIR-SEA	65	69	73	77	81	85	89	>92	TOT	N	NO
IPP DIF	68	72	76	80	84	88	92			FOG	FOG
17/15	.0	.0	.0	.0	*	.0	.0	*	2	.0	*
14/16	.0	.0	.0	.0	*	*	*	.0	5	.0	.1
11/13	.0	.0	.0	*	.1	*	.1	.1	21	.0	.3
9/10	.0	.0	.0	.0	.2	*	.1	*	22	.0	.3
7/8	.0	.0	*	.1	.4	.4	.3	*	83	.0	1.3
6	.0	.0	.0	.2	.2	.3	.1	.0	51	.0	.8
5	.0	.0	*	.3	.6	.6	.1	.0	111	.0	1.7
4	.0	.0	*	.3	1.3	1.0	.1	.0	179	.0	2.7
3	.0	.0	*	.3	1.4	1.0	*	.0	182	*	2.7
2	.0	.0	.1	.8	3.8	1.3	*	.0	367	*	6.0
1	.0	.0	.1	.9	4.3	.7	.0	.0	400	.0	6.0
0	.0	*	.2	3.3	9.3	.6	*	.0	893	*	13.4
-1	.0	.0	.1	4.6	8.2	.2	.0	.0	867	*	13.0
-2	.0	*	.3	7.3	8.2	*	.0	.0	1053	*	15.9
-3	.0	*	.3	6.5	4.1	.1	.0	.0	725	*	10.9
-4	.0	*	.5	7.7	2.4	*	.0	.0	721	.1	10.8
-6	.0	*	.5	4.7	1.3	.0	.0	.0	425	.0	6.5
-7	.0	*	.3	2.6	..	*	.0	.0	248	.0	3.7
-8/-9	.0	*	.0	1.7	.2	.0	.0	.0	182	*	2.7
-9/-10	*	*	.1	.3	*	.0	.0	.0	43	.0	.6
-11/-13	*	.1	.1	.1	.0	.0	.0	.0	18	.0	.3
-14/-16	*	*	.0	.0	.0	.0	.0	.0	2	.0	*
TOTAL	3		274		3090		52			17	6617
		22		2769		412		12	6634		
PCT	*	.3	4.1	41.7	46.6	6.2	.8	.2	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
CL	1.3	3.2	.0	.0	.0	.0	4.5
1-2	.7	4.7	.4	.0	.0	.0	5.8
3-4	.0	.9	.4	.0	.0	.0	1.3
5-6	.0	.2	.1	.1	.0	.0	.5
7	.0	.0	.0	.1	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.0	9.0	.9	.2	.0	.0	12.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
CL	1.1	1.5	.0	.0	.0	.0	2.6
1-2	.5	2.9	.2	.0	.0	.0	3.6
3-4	.1	1.6	.4	.0	.0	.0	2.1
5-6	.0	.2	.4	.0	.0	.0	.6
7	.0	.1	.1	.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	1.6	6.2	1.3	.3	.0	.0	9.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
CL	.6	2.2	.0	.0	.0	.0	2.8
1-2	.4	3.3	.1	.0	.0	.0	3.8
3-4	.0	1.3	.4	.1	.0	.0	2.1
5-6	.0	.2	.4	.0	.0	.0	.6
7	.0	.2	.2	.1	.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	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	7.2	1.4	.3	.0	.0	9.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
CL	.5	1.4	.0	.0	.0	.0	2.1
1-2	.4	2.3	.1	.0	.0	.0	3.0
3-4	.2	.5	*	.0	.0	.0	.7
5-6	.1	*	.0	.0	.0	.0	.1
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	4.5	.2	.0	.0	.0	6.3

PERIOD: (OVER-ALL) 1963-1979 JANUARY AREA 0007 ACAPULCO SOUTH 15.7N 99.0W

TABLE 18 (CONT)

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

	S							Sb						
HGT	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	1.2	.0	.0	.0	.0	1.6	.4	1.5	.1	.0	.0	.0	2.0
1-2	.1	.8	.1	.0	.0	.0	1.0	.5	2.6	.3	.0	.0	.0	3.4
3-4	.0	.2	.1	.0	.0	.0	.3	*	.3	.1	.0	.0	.0	.4
5-6	.0	.1	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.1	.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	.5	2.4	.1	.0	.0	.0	3.0	1.0	4.4	.5	.0	.0	.0	5.9

															TOTAL
	b							%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	PCT
<1	2.0	3.7	.0	.0	.0	.0	5.8	1.9	4.2	.2	.0	.0	.0	6.2	
1-2	1.2	7.7	.8	.0	.0	.0	9.7	1.1	8.1	.5	.0	.0	.0	9.6	
3-4	.1	2.5	.7	.0	.0	.0	3.2	.1	2.2	.8	.0	.0	.0	3.1	
5-6	.1	.1	.1	.0	.0	.0	.3	.0	.2	.2	.0	.0	.0	.4	
7	.0	.0	.1	.0	.0	.0	.1	.0	.1	.1	.1	.0	.0	.2	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.3	14.1	1.6	.0	.0	.0	19.1	3.0	14.9	1.7	.1	.0	.0	19.6	85.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	23.4	19.0	.2	.0	.0	.0	42.6	
1-2	6.8	31.4	2.3	.0	.0	.0	40.4	
3-4	.4	9.3	3.0	.1	.0	.0	12.9	
5-6	.2	1.0	1.2	.1	.0	.0	2.4	
7	.1	.2	.4	.4	.0	.0	.9	
8-9	.0	.1	.2	.0	.0	.0	.3	
10-11	.0	.0	.1	.0	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.1	
13-16	.0	.0	.0	.1	.0	.0	.3	
17-19	.0	.0	.0	.1	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	30.8	61.0	7.3	.8	.0	.0	100.0	1741

PERIOD: (OVER-ALL) 1949-1979

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	11.9	25.3	13.5	3.1	.6	.4	.1	*	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2791	2
6-7	.3	2.7	5.6	2.5	1.2	.4	.2	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	665	4
8-9	.1	1.0	2.0	1.0	.7	.5	.1	*	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	282	4
10-11	.0	1.2	.9	.3	.3	.2	*	.0	*	*	.0	.0	*	*	.0	.0	.0	.0	.0	155	4
12-13	.0	.0	.4	.3	.1	.1	*	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	75	5
>13	.0	.0	.0	.2	.1	*	.0	.0	*	.0	.1	*	.0	.0	.0	.0	.0	.0	.0	25	6
*NDET	10.3	2.2	1.8	.5	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	1076	3
TOTAL	1947	1644	1258	464	165	79	26	9	17	8	5	1	2	2	0	0	0	0	0	4067	3
PCT	28.6	32.4	24.8	8.0	3.3	1.6	.5	.2	.3	.2	.1	*	*	*	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1953-1976 — APEX OOCT ACAPULCO (OLTH
(COVER-ALL) 1961-1976 — 15.7N 99.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	SPRAY OLST SNOW	NO SIG WEA
N	.1	.0	.0	.0	.0	.0	.0	.1	.4	.4	.0	.0	.4	.0	.0	98.3
NE	.2	.2	.0	.0	.0	.0	.0	.5	.0	.2	.0	.0	1.3	.0	.0	98.0
E	.0	.5	.2	.0	.0	.0	.0	.7	.0	.5	.2	.0	2.0	.0	.0	96.7
SE	.0	.4	.3	.0	.0	.0	.0	.8	.0	.5	.1	.0	.7	.0	.0	97.6
S	.0	.7	.0	.0	.0	.0	.0	.7	.5	1.4	.0	.0	1.4	.0	.0	95.8
SW	.1	.3	.0	.0	.0	.0	.0	.3	.2	.2	.0	.0	1.3	.0	.0	98.0
W	*	.1	.1	.0	.0	.0	.0	.1	.1	.0	.1	.0	.6	.0	.1	98.9
NW	.1	.3	.1	.0	.0	.0	.0	.4	*	.3	.1	.0	.8	.0	.0	98.3
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	.2	.1	.5	.0	2.1	.1	.0	97.0
TOT PCT	.1	.2	.1	.0	.0	.0	.0	.3	.1	.2	.1	.0	1.1	*	.0	98.0
TOT OBS:	6904															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER 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	SPRAY OLST SNOW	NO SIG WEA
00E03	.0	.1	.1	.0	.0	.0	.0	.2	.0	.1	.0	.0	.7	.1	.1	98.9
04E09	.1	.3	.0	.0	.0	.0	.0	.3	.1	.7	.3	.0	1.1	.1	.1	97.5
12E15	.1	.2	.1	.0	.0	.0	.0	.3	.3	.4	.2	.0	1.4	.0	.0	97.4
16E21	.1	.1	*	.0	.0	.0	.0	.3	*	*	.1	.0	1.4	.0	.0	98.1
TOT PCT	.1	.2	.1	.0	.0	.0	.0	.3	.1	.3	.1	.0	1.2	*	.0	98.0
TOT OBS:	7166															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)				
WND DIR	0-3	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	6.8	.8	*	.0	.0		10.4	6.1	5.1	6.4	8.0	3.8	14.9	15.3	13.7	9.2
NE	1.5	3.6	.7	.1	*	.0		5.9	6.8	3.3	2.5	4.3	3.4	7.8	9.2	8.1	7.1
E	1.4	3.8	1.0	.1	.0	.0		6.3	7.1	4.3	4.2	5.4	4.2	7.4	9.3	8.1	3.3
SE	1.0	2.6	.5	.0	.0	.0		4.1	6.3	4.2	4.2	3.8	4.6	2.6	1.8	4.8	5.8
S	.8	2.2	.2	.0	.0	.0		3.1	5.7	5.8	7.6	3.1	5.9	1.2	2.2	1.9	4.2
SW	1.4	4.8	.6	.0	.0	.0		6.8	6.2	15.1	12.4	5.4	8.9	2.0	3.4	3.5	9.8
W	3.4	16.4	6.4	1.1	.0	.0		27.1	7.5	41.0	34.2	29.5	33.0	17.8	22.5	19.9	25.8
NW	3.6	15.4	3.1	.1	.0	.0		22.1	7.0	35.2	38.7	20.7	24.6	26.7	30.2	24.7	26.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	14.1							14.1	.0	6.0	11.8	18.1	11.8	19.8	10.0	15.1	9.2
TOT OBS	2264	4304	635	25	2	0	7430		5.4	1784	119	1530	119	1524	230	2004	130
TOT PCT	30.5	57.9	11.2	.3	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	6.7	3.5	.2	*	.0		10.4	6.1	5.0	7.7	14.9	13.4
NE	3.6	2.1	.2	*	*		5.9	6.8	3.3	4.3	7.8	8.1
E	3.6	2.4	.3	*	.0		6.3	7.1	4.3	5.5	7.3	7.8
SE	2.3	1.5	.1	.0	.0		4.1	6.3	4.2	4.7	2.5	4.6
S	2.2	1.0	.0	.0	.0		3.1	5.7	5.4	3.3	1.3	3.1
SW	4.3	2.4	.1	.0	.0		6.8	6.2	14.9	6.1	2.2	3.4
W	13.1	13.6	.4	.0	.0		27.1	7.5	40.6	29.7	16.9	22.1
NW	11.6	10.0	.3	*	.0		22.1	7.0	35.4	20.9	27.2	24.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	14.1						14.1	.0	6.0	17.9	10.5	14.8
TOT OBS	4402	2715	105	7	1	7430		5.4	1808	1449	1759	2234
TOT PCT	61.4	36.5	1.4	.1	*		100.0		100.0	100.0	100.0	100.0

FEBRUARY

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1863-1979

AREA 0007 ACAPULCO SOUTH
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00E03	6.4	13.5	64.0	15.7	.5	.0	.0	7.0	100.0	1884
06E09	17.9	14.9	54.8	12.5	.1	.0	.0	5.8	100.0	1695
12E15	18.5	15.6	56.5	9.0	.3	.1	.0	5.4	100.0	1759
18E21	14.8	20.5	56.2	8.1	.4	*	.0	5.4	100.0	2134
TOT	1051	1213	4304	835	25	2	0	5.9		7430
PCT	14.1	16.3	57.9	11.2	.3	*	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	7.7	1.8	1.0	.2		1.7
NE	4.1	1.1	.7	*		1.9
E	4.5	.9	.9	.2		2.0
SE	2.4	.9	.6	.1		2.4
S	2.0	.6	.3	.1		2.0
SW	4.5	1.3	.7	.1		1.9
W	20.2	4.2	2.2	.5		1.6
NW	16.3	3.2	1.8	.3		1.5
VAR	.0	.0	.0	.0		.0
CALM	11.3	1.9	1.3	.1		1.4
TOT OBS	4214	912	545	95	5766	1.7
TOT PCT	73.1	15.8	9.5	1.6	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	.1	.3	.1	.1	*	.0	.0	10.1	
NE	.0	.0	*	.1	.2	.1	*	.0	*	*	5.6	
E	.0	.0	.0	.1	.2	.1	*	.0	.0	*	6.0	
SE	.0	.0	*	.1	.1	*	*	*	*	*	3.7	
S	.0	.0	*	*	*	*	*	*	.0	.0	2.9	
SW	*	.0	*	.1	.1	.1	.0	*	.0	*	6.4	
W	.1	.0	.1	.2	.4	.1	.1	*	*	*	26.0	
NW	*	.0	*	.1	.3	.2	.1	*	*	.1	20.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	.0	.0	.1	.2	.2	*	*	*	*	14.0	
TOT OBS	6	0	9	56	109	57	23	10	4	10	5482	5766
TOT PCT	.1	.0	.2	1.0	1.9	1.0	.4	.2	.1	.2	95.1	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 >SOYD	= OR >0
= OR >6500	.3	.3	.3	.3	.3	.3	.3	.3
= OR >5000	.4	.4	.4	.4	.4	.4	.4	.4
= OR >3500	.7	.8	.8	.8	.8	.8	.8	.8
= OR >2000	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8
= OR >1000	3.4	3.6	3.7	3.7	3.7	3.7	3.7	3.7
= OR >600	4.2	4.6	4.6	4.6	4.6	4.6	4.6	4.6
= OR >300	4.3	4.7	4.8	4.8	4.8	4.8	4.8	4.8
= OR >150	4.3	4.7	4.8	4.8	4.8	4.8	4.8	4.8
= OR > 0	4.4	4.8	4.9	4.9	4.9	4.9	4.9	4.9
TOTAL	262	287	290	291	291	291	291	291

TOTAL NUMBER OF OBS: 5970 PCT FREQ NH <5/8: 95.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
40.9	26.5	14.3	9.1	4.2	1.9	1.4	1.0	.7 .1	6216

PERIOD: (PRIMARY) 1953-1979
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VA	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	.0	.0	
	TOT %	.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	*	
	TOT %	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
2<5	PCP	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	
	NO PCP	*	*	.0	.0	*	*	.1	.1	.0	.1	.3	
	TOT %	*	*	.0	.0	*	*	.1	.1	.0	.1	.3	
5<10	PCP	.0	*	*	*	*	*	*	*	.0	.0	.1	
	NO PCP	.4	.2	.3	.2	.1	.2	.6	.9	.0	.4	3.2	
	TOT %	.4	.2	.3	.2	.1	.2	.6	.9	.0	.4	3.2	
10+	PCP	*	*	*	*	*	*	.0	.1	.0	.0	.2	
	NO PCP	10.1	5.8	6.1	4.0	3.0	6.6	26.2	20.9	.0	13.5	96.2	
	TOT %	10.1	5.8	6.2	4.0	3.0	6.7	26.2	20.9	.0	13.5	96.4	
	TOT OBS												6880
	TOT PCT	10.6	6.0	6.4	4.2	3.1	6.9	26.9	21.9	.0	14.0	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	
	4-10	*	.0	.0	.0	.0	.0	.0	.0	.0		*	
	11-21	.0	*	*	.0	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	*	.0	.0	.0	*	.0	.0	.0	*	
1/2<1	0-3	.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	*	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.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	.1	
2<5	0-3	*	.0	.0	.0	.0	.0	*	.0	.0	.1	.1	
	4-10	*	*	*	.0	*	.0	.1	.1	.0		.3	
	11-21	.0	*	.0	.0	.0	*	*	*	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	*	*	.0	*	*	.1	.1	.0	.1	.4	
5<10	0-3	.1	*	*	*	*	.1	.2	.2	.0	.4	1.0	
	4-10	.3	.1	.1	.1	.1	.1	.5	.6	.0		1.7	
	11-21	*	*	.1	.1	*	*	.1	.1	.0		.4	
	22+	*	*	*	.0	.0	.0	*	.0	.0		.1	
	TOT %	.4	.2	.3	.2	.1	.2	.6	.8	.0	.4	3.1	
10+	0-3	2.7	1.5	1.4	1.0	.7	1.3	3.5	3.4	.0	13.5	29.1	
	4-10	6.6	3.5	3.7	2.5	2.1	4.7	18.4	14.7	.0		56.1	
	11-21	.8	.6	.9	.4	.2	.6	4.3	3.0	.0		10.9	
	22+	*	.1	.1	.0	.0	.0	.1	.1	.0		.3	
	TOT %	10.1	5.7	6.0	3.9	3.0	6.6	26.3	21.2	.0	13.5	96.3	
	TOT OBS												7263
	TOT PCT	10.6	5.9	6.3	4.1	3.1	6.8	27.0	22.2	.0	14.0	100.0	

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1863-1979

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	WW <5/8 ANY HGT	TOTAL OBS
00E03	.1	.0	.1	.7	1.4	1.1	.1	.2	.1	.2	4.0	96.0	1618
06E09	.2	.0	.3	.8	1.5	.9	.6	.1	.3	.0	4.8	95.2	1410
12E15	.1	.0	.1	1.1	2.6	1.4	.1	.1	.0	.3	6.0	94.0	1418
18E21	.0	.0	.1	1.0	1.9	.6	.5	.2	.0	.2	4.4	95.6	1754
TOT	6	0	9	57	114	61	23	10	5	11	246	5904	6200
PCT	.1	.0	.1	.9	1.8	1.0	.4	.2	.1	.2	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	.0	.0	.1	.3	1.9	97.7	1889
06E09	.1	.0	.1	.5	4.2	95.2	1692
12E15	.1	.1	.1	.8	4.5	94.5	1790
18E21	*	.0	.0	.2	2.3	97.4	2157
TOT	3	1	4	34	237	7249	7528
PCT	*	*	.1	.5	3.1	96.3	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	WW <5/8 AND 5+	TOTAL OBS
00E03	.1	.1	1.0	3.1	96.0	1561
06E09	.2	.5	1.8	3.6	94.6	1361
12E15	.2	.4	2.0	4.7	93.3	1365
18E21	.0	.2	1.2	3.3	95.4	1683
TOT	7	17	88	217	5865	5970
PCT	.1	.3	1.5	3.6	94.9	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	*	.0	.0	.0	2	*
90/94	.0	.0	*	.3	.4	.1	*	.0	49	.8
85/89	.0	*	.1	.6	3.7	3.1	.5	.3	478	8.2
80/84	.0	.0	2	1.3	14.2	32.3	11.5	2.2	3584	61.7
75/79	.0	.0	*	.4	2.1	12.7	10.2	3.1	1656	28.5
70/74	.0	.0	.0	.0	*	.1	.4	.2	43	.7
TOTAL	0	2	16	147	1193	2806	1308	340	5812	100.0
PCT	.0	*	.3	2.5	20.5	48.3	22.5	5.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	*	.0	.0	.0	.0	*	*	.0	.0
	.1	.1	*	.1	*	*	.2	.3	.0	.1
	.8	.5	.6	.4	.3	.4	2.4	1.9	.0	.8
	6.0	3.6	3.6	2.6	2.2	5.1	17.5	12.6	.0	8.7
	3.6	2.0	2.1	1.0	.5	1.0	6.7	6.9	.0	4.6
	.1	.1	.1	*	*	*	.1	.2	.0	.1
	10.6	6.3	6.5	4.1	3.0	6.6	26.9	21.8	.0	14.1

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	95	89	86	82	79	77	73	82.1	1919
06E09	91	84	82	80	77	75	68	79.8	1708
12E15	95	88	82	79	75	73	70	78.9	1821
18E21	95	91	88	82	78	76	70	82.5	2190
TOT	95	89	86	81	77	74	68	80.9	7638

TABLE 16

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	3.9	28.0	49.4	15.4	3.4	73	1562
06E09	.0	.5	12.2	52.3	27.9	7.2	78	1368
12E15	.0	1.1	8.0	46.4	34.3	10.2	79	1417
18E21	.0	5.1	30.5	45.7	15.3	3.5	73	1692
TOT	0	170	1232	2915	1365	355	76	6037

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(OVER-ALL) 1963-1979

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TABLE 17

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

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	% FOG	NO FOG
14/16	.0	.0	.0	.0	*	.0	*	*	5	.0	.1
11/13	.0	.0	.0	*	.1	*	*	.1	19	.0	.3
9/10	.0	.0	.0	*	.2	.2	.2	*	37	.0	.6
7/8	.0	.0	.0	.2	.6	.4	.4	*	92	.0	1.4
6	.0	.0	.0	.1	.4	.5	.3	.0	82	.0	1.3
5	.0	.0	*	.2	.7	1.0	.1	*	136	.0	2.1
4	.0	.0	.0	.3	1.1	1.1	.1	.0	170	.0	2.6
3	.0	.0	*	.3	1.5	1.2	*	.0	197	.0	3.0
2	.0	.0	.1	.8	4.2	1.4	*	.0	420	.0	6.4
1	.0	*	*	.9	5.1	.9	.0	.0	460	.0	7.0
0	.0	.0	.1	3.3	10.4	.6	.0	.0	938	*	14.3
-1	.0	.0	.1	4.1	8.3	.3	.0	.0	838	.0	12.8
-2	.0	*	.2	7.6	7.4	.1	.0	.0	1001	*	15.3
-3	.0	.0	.2	7.2	3.3	.1	.0	.0	714	*	10.9
-4	.0	.0	.6	6.4	1.9	*	.0	.0	615	*	9.4
-5	.0	*	.7	4.4	1.0	*	.0	.0	401	.0	6.1
-6	.0	.0	.7	2.2	.3	*	.0	.0	205	*	3.1
-7/-8	.0	*	.4	1.3	.2	.0	.0	.0	152	.0	2.3
-9/-10	.0	.1	.2	.3	*	.0	.0	.0	46	.0	.7
-11/-13	*	*	.1	.1	.0	.0	.0	.0	11	.0	.2
-14/-16	.0	.0	*	*	.0	.0	.0	.0	2	.0	*
TOTAL	1		263		3034		75			10	6533
		13		2641		504		12	6543		
PCT	*	.2	4.0	40.4	46.4	7.7	1.1	.2	100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.3	1.5	.1	.0	.0	.0	3.9
1-2	.7	5.4	.5	.0	.0	.0	6.6
3-4	.2	1.0	.5	.0	.0	.0	1.8
5-6	.0	.2	.2	.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	3.2	8.1	1.3	.0	.0	.0	12.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	.9	.0	.0	.0	.0	2.2
1-2	.3	2.2	.1	.0	.0	.0	2.6
3-4	.1	.4	.1	.0	.0	.0	.9
5-6	.0	*	.2	.0	.0	.0	.2
7	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	*	.0	.0	.0	.1
10-11	.0	.0	*	.0	.0	.0	*
12	.0	.0	*	.0	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.8	3.6	.4	.1	.0	.0	6.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.1	.0	.0	.0	.0	1.5
1-2	.1	1.5	.4	.0	.0	.0	2.0
3-4	.0	.7	.8	.0	.0	.0	1.6
5-6	.0	.2	.1	.0	.0	.0	.3
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	3.5	1.5	.0	.0	.0	5.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.5	.1	.0	.0	.0	1.1
1-2	.1	1.5	.2	.0	.0	.0	1.9
3-4	.1	.4	.4	.0	.0	.0	1.0
5-6	.1	.0	*	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	2.4	.8	.0	.0	.0	4.0

FEBRUARY

PERIOD: (OVER-ALL) 1963-1979 AREA 0007 ACAPULCO SOUTH

TABLE 18 (CONT) 15.7N 99.0W

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.1	.1	.0	.0	.0	1.6
1-2	.0	1.7	.2	.0	.0	.0	1.9
3-4	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.9	.3	.0	.0	.0	3.6

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.1	.1	.0	.0	.0	1.6
1-2	.4	2.6	.2	.0	.0	.0	3.2
3-4	*	.5	.2	.0	.0	.0	.8
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.1	.0	.0	.0	.0	.1
8-9	.0	.1	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	4.4	.5	.0	.0	.0	5.8

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.6	4.0	.2	.0	.0	.0	5.8
1-2	1.0	9.5	1.9	.0	.0	.0	12.5
3-4	.1	3.2	1.3	.0	.0	.0	4.6
5-6	.0	.3	.8	.0	.0	.0	1.1
7	.0	.1	.0	.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	2.7	17.1	4.3	.0	.0	.0	24.2

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.2	4.0	.1	.0	.0	.0	6.3
1-2	.5	9.7	1.7	.0	.0	.0	11.9
3-4	.0	2.2	1.1	.0	.0	.0	3.3
5-6	.0	.2	.5	.0	.0	.0	.8
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.7	16.1	3.5	.0	.0	.0	22.3

HGT	TOTAL PCT
<1	
1-2	
3-4	
5-6	
7	
8-9	
10-11	
12	
13-16	
17-19	
20-22	
23-25	
26-32	
33-40	
41-48	
49-60	
61-70	
71-86	
87+	
TOT PCT	84.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	24.7	14.0	.6	.0	.0	.0	39.3	
1-2	5.7	33.0	5.0	.0	.0	.0	43.6	
3-4	.8	8.2	4.5	.0	.0	.0	13.5	
5-6	.1	.9	1.7	.0	.0	.0	2.7	
7	.0	.1	.2	.0	.0	.0	.4	
8-9	.0	.1	.1	.1	.0	.0	.3	
10-11	.0	.0	.1	.0	.0	.0	.1	
12	.0	.0	.1	.0	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1358
TOT PCT	31.3	56.4	12.3	.1	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1979 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	10.3	23.8	15.3	3.4	.7	.4	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	2667	2
6-7	.4	2.9	6.2	3.0	1.1	.4	.3	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	710	4
8-9	.2	1.4	2.3	1.4	.6	.2	.1	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	308	4
10-11	.0	1.1	.7	.5	.4	.1	.1	*	..	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	143	4
12-13	.0	.0	.7	.2	.2	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	61	5
>13	.0	.0	.0	.3	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	6
INDET	15.2	2.9	2.1	.4	.1	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1020	1
TOTAL	1286	1578	1393	456	157	59	30	10	7	5	0	0	0	0	0	0	0	0	0	4931	2
PCT	26.1	32.0	27.2	9.2	3.2	1.2	.6	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1953-1979 AREA 0007 ACAPULCO SOLIM
(OVER-ALL) 1881-1979 TABLE 1 15.7N 98.0W

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.2	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	1.6		.0	98.1
NE	.0	.0	.0	.0	.0	.0	.0	.0	.6	.1	.2	.0	3.2		.0	96.0
E	.4	.0	.0	.0	.0	.0	.0	.4	.0	.6	.2	.0	2.9		.0	95.9
SE	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.5	.0	2.5		.0	96.9
S	.4	.0	.0	.0	.0	.0	.0	.4	.0	.5	.5	.0	4.0		.0	94.6
SW	.2	.0	.2	.0	.0	.0	.0	.4	.0	.0	.4	.0	2.5		*	96.7
W	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.3	.0	2.0		.1	97.4
NW	.1	.0	.1	.0	.0	.0	.0	.1	.1	.1	.2	.0	1.6		.0	98.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.1	.0	.0	.0	.0	.1	.0	.3	.2	.0	5.1		.0	94.2
TOT PCT	.1	.0	*	.0	.0	.0	.0	.1	.1	.1	.2	.0	2.4		*	97.0
TOT OBS: 7670																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER 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
0[illegible]3	.0	.0	.1	.0	.0	.0	.0	.1	.1	.1	.1	.0	1.7	.1		98.0
0[illegible]9	.1	.0	.1	.0	.0	.0	.0	.2	.1	.4	.3	.0	2.2	.0		97.0
12E15	.2	.0	.1	.0	.0	.0	.0	.2	.2	.1	.4	.0	2.4	.0		96.
18E21	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.2	.0	3.1	*		96.6
TOT PCT	.1	.0	*	.0	.0	.0	.0	.1	.1	.1	.2	.0	2.4	*		97
TOT OBS: 7416																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.0	5.0	.6	*	.0	.0		7.6	6.0	3.3	.8	6.0	6.3	12.0	8.2	9.2	10.1
NE	.9	2.9	.4	.1	*	.0		4.3	6.9	1.9	.8	4.3	4.3	6.5	5.9	4.7	5.1
E	.8	2.2	.5	*	*	.0		3.6	6.8	2.4	1.7	3.6	3.6	4.4	2.7	4.1	2.9
SE	.7	1.7	.1	*	.0	.0		2.5	5.6	2.7	2.7	3.0	.7	1.9	.7	2.9	1.0
S	.6	1.7	*	.0	.0	.0		2.6	5.1	3.7	5.7	2.3	3.2	1.6	.9	2.6	3.7
SW	1.3	4.6	.6	*	.0	.0		6.9	6.5	3.4	9.1	5.0	11.4	2.8	5.8	5.4	5.0
W	4.3	24.6	7.3	.1	.0	.0		36.6	7.9	52.3	50.0	36.7	44.6	24.9	31.1	31.3	34.3
NW	3.7	16.9	3.5	*	.0	.0		24.1	7.2	15.8	19.2	23.8	18.7	30.2	34.0	26.2	29.6
VAR	.1	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	11.8							11.8	.0	4.5	10.7	15.4	7.5	15.7	10.8	13.2	8.3
TOT OBS	2186	4979	1072	22	3	0	8262		6.3	1958	121	1790	134	1776	223	2104	156
TOT PCT	26.5	60.3	13.0	.3	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.9	2.4	*	*	.0		7.6	6.0	3.2	6.1	11.6	9.3
NE	2.7	1.4	.1	.1	*		4.3	6.9	1.8	4.3	6.6	4.7
E	2.1	1.4	.1	*	.0		3.6	6.8	2.4	3.5	4.2	4.0
SE	1.8	.7	*	.0	.0		2.5	5.6	2.7	2.8	1.7	2.7
S	2.0	.6	*	.0	.0		2.6	5.1	3.7	2.3	1.5	2.6
SW	4.1	2.7	.1	.0	.0		6.9	6.5	13.1	5.5	3.1	5.8
W	16.2	19.4	1.0	.0	.0		36.6	7.9	52.2	37.3	25.6	31.5
NW	12.2	11.6	.3	.0	.0		24.1	7.2	16.0	23.4	30.6	26.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	11.8						11.8	.0	4.9	14.8	15.1	12.8
TOT OBS	4780	3326	147	8	1	8262		6.3	2079	1924	1999	2260
TOT PCT	57.9	40.3	1.8	.1	*		100.0		100.0	100.0	100.0	100.0

MARCH

PERIOD: (PRIMARY) 1955-1979
(OVER-ALL) 1881-1979

AREA 0007 ACAPULCO SOUTH
15.7N 98.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000	9.9	11.0	63.2	20.5	.2	.1	.0	7.8	100.0	2279
0609	14.8	12.8	59.0	13.0	.3	.1	.0	6.3	100.0	1924
1215	15.1	16.2	59.4	8.8	.3	.0	.0	5.6	100.0	1999
1821	12.8	18.0	59.2	9.7	.3	.0	.0	5.7	100.0	2260
TOT	979	1207	4979	1072	22	3	0	6.3		8262
PCT	11.8	14.6	60.3	13.0	.3	*	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	5.2	1.6	.9	.2		2.0
NE	3.2	.5	.5	.1		1.8
E	2.4	.7	.5	.1		2.1
SE	1.7	.5	.5	.1		1.9
S	1.7	.4	.2	.1		1.9
SW	4.7	1.0	.8	.1		1.9
W	28.8	6.0	3.5	.6		1.7
NW	16.7	4.2	2.5	.4		1.8
VAR	.0	.0	.0	.0		.0
CALM	8.8	1.8	1.1	.1		1.5
TOT OBS	4481	1051	650	114	6296	1.8
TOT PCT	71.2	16.7	10.3	1.8	100.0	

TABLE 6

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

WND DIR	CCD 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	4M <5/8 ANY HGT	TOTAL OBS
N	.0	.0	*	.1	.2	*	.1	*	*	*	7.4	
NE	*	.0	*	*	.1	.1	*	*	*	*	4.0	
E	.0	.0	.0	.0	.2	*	*	.0	*	.1	3.4	
SE	.0	.0	*	*	*	*	*	*	*	.1	2.1	
S	.0	*	.0	*	*	*	.0	.0	.0	.1	2.4	
SW	.0	*	.0	*	.2	.1	*	.0	*	*	6.2	
W	.0	*	.0	.3	.6	.3	.1	.1	*	.1	35.4	
NW	*	*	.1	.1	.3	.2	.2	.1	.1	.1	22.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	*	.2	.1	*	*	*	*	11.4	
TOT OBS	2	4	8	38	110	57	33	17	14	16	5644	6296
TOT PCT	*	.1	.1	.6	1.7	.9	.5	.3	.2	.3	89.2	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >SOME	= OR >0
= OR >6500	.5	.5	.5	.5	.5	.5	.5	.5
= OR >5000	.7	.8	.8	.8	.8	.8	.8	.8
= OR >3500	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3
= OR >2000	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2
= OR >1000	3.7	3.9	3.9	3.9	3.9	3.9	3.9	3.9
= OR >600	4.2	4.5	4.5	4.5	4.5	4.5	4.5	4.5
= OR >300	4.3	4.6	4.6	4.6	4.6	4.6	4.6	4.6
= OR >150	4.4	4.7	4.7	4.7	4.7	4.7	4.7	4.7
= OR > 0	4.4	4.7	4.7	4.7	4.7	4.7	4.7	4.7
TOTAL	295	304	306	306	306	306	306	306

TOTAL NUMBER OF OBS: 6452

PCT FREQ 4M <5/8: 95.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
44.9	23.8	14.0	8.4	3.9	1.8	1.5	1.[illegible]	.7	*	6754

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1881-1979

AREA 0007 ACAPULCO SOUTH
15.7N 98.9W

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<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	*	
	NO PCP	.0	*	*	*	.0	*	.1	.1	.0	*	.2	
	TOT %	.0	*	*	*	.0	*	.1	.1	.0	*	.2	
5<10	PCP	.0	.0	.0	*	*	.0	.0	*	.0	.0	*	
	NO PCP	.4	.2	.2	.2	.1	.2	1.0	.8	.0	.7	3.8	
	TOT %	.4	.2	.2	.2	.1	.2	1.0	.8	.0	.7	3.8	
10+	PCP	*	.0	*	.0	.0	*	.0	*	.0	*	.1	
	NO PCP	7.4	4.1	3.4	2.3	2.3	6.7	35.3	23.6	.0	10.7	95.9	
	TOT %	7.4	4.1	3.4	2.3	2.3	6.7	35.2	23.7	.0	10.7	95.9	
	TOT OBS												7691
	TOT PCT	7.8	4.3	3.7	2.5	2.5	6.9	36.4	24.5	.0	11.5	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	*	
	4-10	*	.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	.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	.0	.0	
	4-10	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	.0	*	.0	.0	.0	.0	.0	.0	*	
2<5	0-3	.0	.0	*	*	*	.0	*	*	.0	*	.1	
	4-10	*	*	*	*	.0	*	.1	*	.0		.2	
	11-21	.0	.0	.0	.0	.0	*	*	*	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	*	*	*	*	.2	.1	.0	*	.4	
5<10	0-3	.1	.1	*	*	*	*	.1	.1	.0	.7	1.2	
	4-10	.2	.1	.1	.1	.1	.1	.7	.5	.0		2.1	
	11-21	*	*	*	*	.0	*	.1	.1	.0		.4	
	22+	*	*	*	*	.0	.0	.0	.0	.0		*	
	TOT %	.4	.2	.2	.2	.1	.2	1.0	.8	.0	.7	3.7	
10+	0-3	1.9	.8	.8	.6	.8	1.3	4.1	3.6	.0	11.1	25.0	
	4-10	4.8	2.8	2.1	1.6	1.5	4.8	24.1	16.4	.0		58.0	
	11-21	.5	.4	.4	.1	*	.6	7.1	3.3	.0		12.4	
	22+	*	.1	*	*	.0	*	.1	*	.0		.3	
	TOT %	7.3	4.0	3.3	2.3	2.4	6.7	35.4	23.3	.0	11.1	95.8	
	TOT OBS												8084
	TOT PCT	7.6	4.3	3.4	2.5	2.5	6.9	36.6	24.2	.0	11.8	100.0	

MARCH

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1951-1979

AREA CODE ACAPULCO INTL
15.7N 98.9W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,AM 24/81) AND OCCURRENCE OF AM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	AM <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	.1	.5	1.2	1.0	.6	.4	.3	.3	4.4	95.6	1731
06E09	.1	.1	.1	.6	1.7	.9	.4	.2	.2	.3	4.7	95.3	1861
12E15	.0	.1	.3	.9	.6	.9	.6	.2	.1	.2	4.0	94.0	1602
18E21	.0	.1	.0	.2	1.2	.7	.4	.2	.2	.4	3.3	96.7	1830
TOT	2	4	8	31	83	58	33	17	14	22	309	6455	6764
PCT	*	.1	.1	.6	1.7	.9	.5	.3	.2	.3	4.6	95.4	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	*	.2	2.5	97.2	2061
06E09	.1	.0	.0	.4	4.4	95.2	1965
12E15	*	.0	*	.4	5.2	94.2	2030
18E21	.1	.0	.0	.4	3.0	96.5	2288
TOT	5	0	2	21	312	7979	8329
PCT	.1	.0	*	.4	3.7	95.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,AM 24/81),BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <3	1000+ AND5+	AM <5/8 AND 5+	TOTAL OBS
00E03	.1	.1	.8	4.0	95.3	1670
06E09	.1	.3	1.2	3.9	94.6	1505
12E15	.0	.5	1.6	4.8	93.5	1533
18E21	.0	.2	.6	3.1	96.2	1744
TOT	3	17	67	253	6132	6652
PCT	*	.1	1.0	3.6	95.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	*	.0	*	.0	.0	.0	2	*
90/94	.0	.0	.0	.1	.4	.1	*	*	49	.8
85/89	.0	*	*	.2	3.9	9.5	.8	.2	658	10.4
80/84	.0	.0	.1	.2	11.0	32.5	13.9	2.4	3852	60.6
75/79	.0	.0	*	.1	1.4	10.2	11.4	3.8	1717	27.0
70/74	.0	.0	.0	.0	*	.3	.4	.3	72	1.1
65/69	.0	.0	.0	.0	.0	*	.0	*	2	*
TOTAL	0	1	9	116	1067	3027	1704	428	6352	100.0
PCT	.0	*	.1	1.8	16.8	47.7	26.8	6.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	*	.0	.0	.0	.0	*	.0	.0	.0
.1	*	*	.0	*	*	.2	.2	.0	.1
.9	.4	.5	.3	.2	.6	3.8	2.2	.5	1.1
4.4	2.1	1.7	1.5	1.7	4.8	23.6	14.1	.0	6.6
2.6	1.5	1.3	.6	.5	1.1	8.6	7.0	.0	3.9
.1	.1	.1	*	*	*	.3	.3	.0	.2
*	.0	.0	.0	.0	.0	.0	*	.0	.0
8.0	4.2	3.6	2.5	2.5	6.8	36.6	23.9	.0	11.9

TABLE 15

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

HOUR (GMT)	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	94	89	86	82	78	76	64	82.3	2082
06E09	97	84	83	80	77	74	68	80.0	1983
12E15	96	84	82	79	75	73	69	79.0	2055
18E21	95	90	88	82	78	75	64	82.8	2319
TOT	97	89	86	81	76	74	64	81.1	8439

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	1.8	29.1	51.7	16.0	4.4	75	1665
06E09	.0	.7	9.2	47.8	36.4	7.9	79	1562
12E15	.0	.6	6.4	30.3	41.1	12.6	81	1563
18E21	.0	4.7	27.8	51.0	13.6	2.9	73	1748
TOT	0	132	1100	3127	1768	444	77	6576

TABLE 17

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1881-1979

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

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT N	FOG	NC FOG
17/19	.0					.0	.0	.0	.0	2	.0	.1
14/16	.0	.0	.0	.0	.0	.0	.0	.1		8	.0	.3
11/13	.0	.0	.0	.0	.0	.0	.1	.1		20	.0	.5
9/10	.0	.0	.0	.0	.0	.1	.1	.1		39	.0	1.3
7/8	.0	.0	.0	.0	.0	.1	.1	.1		95	.0	1.2
5/6	.0	.0	.0	.0	.0	.1	.1	.1		87	.0	2.2
3/4	.0	.0	.0	.0	.0	.1	.1	.1		157	.0	3.2
1/2	.0	.0	.0	.0	.0	.1	.1	.1		228	.0	3.6
-1/0	.0	.0	.0	.0	.0	.1	.1	.1		260	.0	7.6
-3/-2	.0	.0	.0	.0	.0	.1	.1	.1		534	.0	7.0
-5/-4	.0	.0	.0	.0	.0	.1	.1	.1		508	.0	14.2
-7/-6	.0	.0	.0	.0	.0	.1	.1	.1		1026	.0	12.5
-9/-8	.0	.0	.0	.0	.0	.1	.1	.1		904	.0	15.0
-11/-10	.0	.0	.0	.0	.0	.1	.1	.1		1045	.0	10.5
-13/-12	.0	.0	.0	.0	.0	.1	.1	.1		761	.0	8.9
-15/-14	.0	.0	.0	.0	.0	.1	.1	.1		645	.0	5.7
-17/-16	.0	.0	.0	.0	.0	.1	.1	.1		413	.0	3.0
-19/-18	.0	.0	.0	.0	.0	.1	.1	.1		216	.0	2.6
TOTAL	.0	.0	.0	.0	.0	.1	.1	.1		177	.0	.6
PCT	.0	.1	.2	4.7	37.1	46.6	9.9	1.2	.1	40	.0	.2
										12	.0	.0
										3	.0	.0
										3	.0	.0
										7224	18	7208
										100.0	.2	99.8

TABLE 18

PERIOD: (OVER-ALL) 1963-1979

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	2.7	1.1	.1			2.8
1-2	.7	2.2	.1				3.0
3-4	.1	.1					1.2
5-6							
7							
8-9							
10-11							
12							
13-16							
17-19							
20-22							
23-25							
26-32							
33-40							
41-48							
49-60							
61-70							
71-86							
87+							
TOT PCT	1.9	5.0	1.2	.1			8.1

NE

	1-3	4-10	11-21	22-33	34-47	48+	PCT
	.6	1.0	.3				1.9
	.4	1.0	.3				1.7
	.2	1.0	.3				1.5
	.3	.2	.1				.6
		.1					.1
	1.6	2.3	1.1				5.0

E

	1-3	4-10	11-21	22-33	34-47	48+	PCT
	.2	.1					.3
	.2	.2	.1				.5
	.2	.2	.1				.5
	.2	.2	.1				.5
	.2	.2	.1				.5
	.2	.2	.1				.5
	.2	.2	.1				.5
	.2	.2	.1				.5
	.2	.2	.1				.5
	.2	.2	.1				.5
	.2	.2	.1				.5
	.2	.2	.1				.5
	.2	.2	.1				.5
	.2	.2	.1				.5
	.2	.2	.1				.5
	.2	.2	.1				.5
	.2	.2	.1				.5
	.2	.2	.1				.5
	.2	.2	.1				.5
	3.1	3.3	1.4				7.8

SE

	1-3	4-10	11-21	22-33	34-47	48+	PCT
	.2	.2	.1				.5
	.2	.2	.1				.5
	.2	.2	.1				.5
	.2	.2	.1				.5
	.2	.2	.1				.5
	.2	.2	.1				.5
	.2	.2	.1				.5
	.2	.2	.1				.5
	.2	.2	.1				.5
	.2	.2	.1				.5
	.2	.2	.1				.5
	.2	.2	.1				.5
	.2	.2	.1				.5
	.2	.2	.1				.5
	.2	.2	.1				.5
	.2	.2	.1				.5
	.2	.2	.1				.5
	.2	.2	.1				.5
	.2	.2	.1				.5
	3.1	3.3	1.4				7.8

PERIOD: (OVER-ALL) 1963-1979 AREA CODE ACAPULCO SOUTH 15.7N 98.9W

TABLE 18 (CONT)

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

5

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

5b

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.8	•	.0	.0	.0	1.2
1-2	.5	2.5	.3	.0	.0	.0	3.4
3-4	.1	.7	.3	.0	.0	.0	1.0
5-6	.0	.1	•	.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	1.0	4.1	.6	.0	.0	.0	5.8

6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.8	5.0	.2	.0	.0	.0	7.1
1-2	.9	12.5	2.4	.0	.0	.0	15.7
3-4	.2	4.4	3.5	.0	.0	.0	8.2
5-6	.0	.3	.8	.0	.0	.0	1.1
7	.0	.1	.1	.1	.0	.0	.2
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	2.9	22.3	7.1	.1	.0	.0	32.4

6b

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.9	3.6	.0	.0	.0	.0	5.5	
1-2	1.5	11.4	1.8	.0	.0	.0	14.6	
3-4	.3	2.6	2.1	.0	.0	.0	4.9	
5-6	.1	.4	.9	.0	.0	.0	1.4	
7	.0	.0	•	.0	.0	.0	•	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.7	18.0	4.7	.0	.0	.0	26.3	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	19.0	12.3	.3	.0	.0	.0	32.6	
1-2	5.7	34.1	5.1	.0	.0	.0	44.9	
3-4	.8	10.5	6.6	.0	.0	.0	17.9	
5-6	.1	1.1	2.2	.0	.0	.0	3.4	
7	.0	.3	.3	.1	.0	.0	.8	
8-9	.0	.1	.1	.0	.0	.0	.2	
10-11	.0	.0	.1	.1	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	25.6	59.5	14.7	.2	.1	.0	100.0	1931

PERIOD: (OVER-ALL) 1949-1979

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	PEAK >67
<6	9.9	26.6	16.8	3.7	.9	.3	.1	•	•	•	.0	.0	.0	.0	.0	.0	.0	.0	.0	3196	2
6-7	.2	2.6	6.1	3.2	.7	.5	.1	•	•	•	.0	.0	.0	.0	.0	.0	.0	.0	.0	740	4
8-9	.1	.9	2.9	1.6	.3	.2	.1	.0	.1	•	•	.0	.0	.0	.0	.0	.0	.0	.0	298	4
10-11	.0	.9	1.2	.7	.1	.1	•	.0	•	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	199	4
12-13	.0	.0	1.1	.3	.1	•	•	.0	•	•	•	.0	.0	.0	.0	.0	.0	.0	.0	85	5
>13	.0	.0	.0	.3	.2	.1	.0	.0	.0	•	•	•	.0	.0	.0	.0	.0	.0	.0	35	7
INDET	11.4	2.5	2.4	.7	.3	.1	•	.0	•	•	•	.0	.0	.0	.0	.0	.0	.0	.0	457	1
TOTAL	1167	1836	1637	572	139	65	22	3	10	5	6	0	0	0	0	0	0	0	0	5402	2
PCT	21.7	33.5	29.9	10.4	2.5	1.2	.4	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1862-1979

AREA 0007 ACAPULCO SCLTN
15.7N 98.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
W.C 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 BLNG BLNG	DUST SNOW	NO SIG WEA
N	.2	.0	.0	.0	.0	.0	.0	.2	.1	.2	.1	.0	6.5		.0	93.1
NE	.5	.1	.1	.0	.0	.0	.0	.7	.0	1.2	.0	.0	8.4		.0	89.3
E	.8	.3	.3	.0	.0	.0	.0	1.3	.0	.4	.3	.0	8.7		.0	89.4
SE	.8	1.1	.0	.0	.0	.0	.0	1.4	1.1	2.2	.1	.0	9.4		.0	85.8
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	12.3		.0	86.1
SW	.2	.0	.0	.0	.0	.0	.0	.2	.3	.4	.0	.0	9.3		.0	90.0
W	.0	*	.0	.0	.0	.0	.0	*	.1	.2	.1	.0	7.2		*	92.3
NW	.1	.1	.0	.0	.0	.0	.0	.2	.1	.1	.1	.0	5.3		.0	94.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.6	.0	12.1		.0	97.1
TOT PCT	.1	.1	*	.0	.0	.0	.0	.2	.1	.3	.2	.0	7.7		*	91.5
TOT OBS:	7680															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER 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 BLNG BLNG	DUST SNOW	NO SIG WEA
00003	.1	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.0	8.8		.1	90.6
06009	.2	.1	.1	.0	.0	.0	.0	.3	.1	.8	.2	.0	9.6		.0	89.2
12015	.3	.3	.0	.0	.0	.0	.0	.5	.3	.4	.3	.0	7.3		.0	91.3
18021	*	.0	.0	.0	.0	.0	.0	*	.1	.0	.2	.0	9.5		.0	90.2
TOT PCT	.1	.1	*	.0	.0	.0	.0	.2	.1	.3	.2	.0	7.6		*	91.6
TOT OBS:	7908															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)					
WND DIR	0-3	4-10	11-21	22-32	33-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.1	4.6	.5	*	.0	.0		7.2	5.7	2.6	5.0	5.9	3.4	12.5	9.3	8.0	7.1
NE	.8	2.1	.3	.1	*	.0		3.3	7.0	1.9	1.6	3.3	1.1	4.6	5.6	3.7	5.2
E	1.0	2.0	.5	*	.0	.0		3.6	6.6	1.8	2.2	4.1	2.9	4.2	5.1	3.8	1.1
SE	.7	1.4	.2	*	.0	.0		2.3	6.2	2.3	.0	2.9	.9	1.9	2.5	2.7	1.9
S	.6	1.5	.2	.0	.0	.0		2.3	5.8	3.2	1.2	2.9	2.6	1.1	.7	2.4	1.9
SW	1.8	5.5	.8	*	.0	.0		8.1	6.4	15.6	7.2	7.3	17.3	2.9	4.6	6.3	10.1
W	4.5	26.0	8.0	.1	*	.0		38.5	8.0	54.3	55.2	37.5	44.0	26.8	33.0	36.7	34.6
NW	3.1	10.6	3.5	*	*	.0		22.3	7.4	13.1	18.0	20.1	20.7	32.4	30.1	26.5	29.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	11.3							11.3	.0	5.3	9.4	16.1	7.7	12.8	9.7	12.7	6.7
TOT OBS	2129	4903	1152	35	2	0	9215		6.3	1911	325	1759	117	1801	216	2152	134
TOT PCT	25.9	59.7	14.0	.4	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	5.0	2.1	.1	*	.0		7.2	5.7	2.8	5.8	12.1	7.4
NE	2.0	1.2	.1	.1	.0		3.3	7.0	1.8	3.2	5.0	3.3
E	2.2	1.2	.1	*	.0		3.6	6.6	1.8	4.0	4.8	3.8
SE	1.6	.7	.1	.0	.0		2.3	6.0	2.1	2.7	1.9	2.6
S	1.6	.6	.1	.0	.0		2.3	5.8	3.1	2.7	1.1	2.4
SW	5.0	3.1	.1	.0	.0		8.1	6.4	15.1	8.0	3.1	6.5
W	16.4	21.3	.4	.0	*		38.5	8.0	54.4	37.4	27.5	34.8
NW	11.1	11.7	.4	.0	*		23.3	7.4	13.4	20.1	32.2	26.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	11.3						11.3	.0	5.6	15.6	12.5	12.0
TOT OBS	4617	3444	147	6	1	8215		6.5	2036	1876	2017	2286
TOT PCT	56.2	41.9	1.8	.1	*		100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1862-1979

AREA 0007 ACAPULCO SOUTH
15.7N 98.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00E03	5.6	10.8	60.6	22.4	.6	.0	.0	7.9	100.0	2036
06E09	15.6	12.1	58.2	13.8	.3	.1	.0	6.3	100.0	1876
12E15	12.5	16.2	61.3	9.6	.4	*	.0	6.0	100.0	2017
18E21	12.0	18.5	58.7	10.6	.2	.0	.0	5.8	100.0	2286
TOT	932	1197	4902	1152	30	2	0	6.5		8215
PCT	11.3	14.6	59.7	14.0	.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	4.4	1.4	1.2	.5		2.6
NE	1.8	.7	.5	.7		2.5
E	2.0	.9	.7	.3		2.9
SE	1.2	.5	.4	.1		2.8
S	1.3	.6	.4	.1		2.7
SW	4.7	1.4	1.2	.4		2.3
W	24.4	7.2	5.1	1.4		2.1
NW	14.0	5.0	3.2	1.2		2.4
VAR	.0	.0	.0	.0		.0
CALM	7.5	1.6	1.7	.7		2.2
TOT OBS	3808	1191	899	309	6207	2.3
TOT PCT	61.4	19.2	14.5	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	*	.1	.2	.1	.1	*	*	.1	6.8	
NE	.0	.0	*	*	.1	*	*	*	.0	*	2.9	
E	*	.0	*	.1	.1	.1	.1	*	.0	*	3.4	
SE	.0	.0	.0	.1	.1	.1	*	*	*	*	1.9	
S	*	.0	*	*	.1	.0	*	.0	.0	*	2.2	
SW	*	*	*	.1	.2	.2	*	*	*	*	7.0	
W	*	*	.1	.3	.8	.6	.2	.1	.1	.1	35.7	
NW	*	.0	.1	.2	.8	.2	.1	.1	.1	.1	21.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	.0	*	.2	.3	.1	.1	*	.0	.1	10.7	
TOT OBS	8	3	24	67	170	91	45	19	16	28	5736	6207
TOT PCT	.1	*	.4	1.1	2.7	1.5	.7	.3	.3	.5	92.4	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >5OYD	= OR >0
= OR >6500	.7	.7	.7	.7	.7	.7	.7	.7
= OR >5000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
= OR >3500	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7
= OR >2000	2.9	3.2	3.2	3.2	3.2	3.2	3.2	3.2
= OR >1000	5.2	5.8	5.9	5.9	5.9	5.9	5.9	5.9
= OR >600	6.1	6.9	6.9	6.9	6.9	7.0	7.0	7.0
= OR >300	6.4	7.2	7.3	7.3	7.3	7.3	7.3	7.3
= OR >150	6.4	7.3	7.4	7.4	7.4	7.4	7.4	7.4
= OR > 0	6.5	7.4	7.5	7.5	7.5	7.5	7.5	7.5
TOTAL	415	471	477	478	478	479	479	479

TOTAL NUMBER OF OBS: 6378 PCT FREQ NH <5/8: 92.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
44.1	20.1	14.0	8.5	5.5	2.7	2.1	1.4	1.5	.1	6683

APRIL

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1362-1979

AREA 0007 ACAPULCO SOUTH
15.7N 98.9W

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO 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	*	*	
	TOT %	.0	.0	.0	.0	.0	*	.0	.0	.0	*	*	
2<5	PCP	.0	*	*	*	.0	.0	.0	*	.0	.0	*	
	NO PCP	.1	*	*	.0	*	*	.2	.1	.0	.1	.4	
	TOT %	.1	*	*	*	*	*	.2	.1	.0	.1	.4	
5<10	PCP	*	*	*	*	.0	*	.0	*	.0	.0	.1	
	NO PCP	.6	.2	.4	.3	.2	.8	2.9	1.9	.0	1.3	8.6	
	TOT %	.6	.2	.4	.3	.2	.8	2.9	1.9	.0	1.3	8.6	
10+	PCP	.0	*	*	*	.0	.0	*	*	.0	.0	.1	
	NO PCP	6.6	3.1	3.2	2.0	2.1	7.2	35.5	21.4	.0	9.8	90.8	
	TOT %	6.6	3.1	3.3	2.0	2.1	7.2	35.5	21.4	.0	9.8	90.9	
	TOT OBS												7671
	TOT PCT	7.3	3.3	3.7	2.3	2.3	8.1	38.5	23.3	.0	11.2	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	.1	
	4-10	.0	.0	.0	*	*	*	*	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	*	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	.0	*	*	.1	*	.0	.0	.0	.1	
1/2<1	0-3	.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	*	*	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	*	.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	*	.1	
2<5	0-3	.1	*	*	.0	*	*	*	*	.0	.1	.2	
	4-10	*	*	*	*	*	*	.1	.1	.0		.3	
	11-21	*	.0	.0	.0	*	*	.1	.1	.0		.1	
	22+	.0	*	*	*	.0	.0	*	.0	.0		*	
	TOT %	.1	*	*	*	*	*	.2	.1	.0	.1	.4	
5<10	0-3	.2	.1	.1	.1	.1	.3	.5	.2	.0	1.3	2.8	
	4-10	.4	.1	.2	.2	.1	.4	1.9	1.3	.0		4.5	
	11-21	*	*	.1	*	*	.1	.4	.3	.0		1.0	
	22+	.0	.0	*	*	.0	.0	*	*	.0		*	
	TOT %	.6	.2	.4	.3	.2	.8	2.8	1.8	.0	1.3	8.4	
10+	0-3	1.9	.7	.9	.6	.5	1.5	3.9	2.8	.0	9.8	22.5	
	4-10	4.2	2.0	1.8	1.2	1.3	5.0	24.0	15.3	.0		54.9	
	11-21	.4	.3	.4	.2	.2	.7	7.6	3.2	.0		13.0	
	22+	*	.1	*	*	.0	*	.1	*	.0		.3	
	TOT %	6.6	3.1	3.2	2.0	2.0	7.2	35.6	21.3	.0	9.8	90.8	
	TOT OBS												7984
	TOT PCT	7.2	3.3	3.6	2.3	2.3	8.1	38.6	23.3	.0	11.1	100.0	

APRIL

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1952-1979

APLA 0007 ACAPULCO SOUTH
16.7N 99.9W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NM X4/8) 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 BAY HGT	TOTAL OBS
00E03	.1	.1	.4	.7	2.7	1.3	.4	.5	.2	.4	6.7	93.3	1662
06E09	.1	.0	.1	.5	2.0	1.3	.6	.1	.4	.5	5.7	94.3	1508
12E15	.1	.0	.6	2.0	3.9	1.6	1.0	.1	.1	.4	9.6	4	1633
18E21	.2	.1	.3	.9	2.0	1.4	.8	.4	.3	.5	7.1	92.9	1920
TOT	8	3	24	68	175	94	45	19	17	30	483	616C	6843
PCT	.1	*	.4	1.0	2.6	1.4	.7	.3	.3	.5	7.3	92.7	100.0

TABLE 11

PERCENT FREQUENCY OF VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10	TOTAL OBS
00E03	.1	.1	.0	.5	6.4	92.8	2010
06E09	.1	.0	.1	.6	7.3	91.7	1892
12E15	.1	.0	*	.7	10.9	88.2	2016
18E21	.1	.0	.1	.6	9.1	90.1	2297
TOT	10	2	4	55	697	7447	8215
PCT	.1	*	*	.7	8.5	90.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NM X4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NM <5/8 AND 5+	TOTAL OBS
00E03	.1	.6	1.5	5.7	92.8	1613
06E09	.1	.3	1.6	4.9	93.5	1448
12E15	.1	.8	3.1	7.0	89.9	1562
18E21	.2	.6	1.9	5.7	92.4	1746
TOT	8	37	131	371	5876	6378
PCT	.1	.6	2.1	5.8	92.1	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	.0	5	.1
90/94	.0	.0	*	.3	.8	.4	.1	*	100	1.6
85/89	.0	.0	.1	.5	5.7	5.4	2.1	.4	1153	18.1
80/84	.0	.0	.0	.5	8.2	30.4	20.3	3.7	4010	63.1
75/79	.0	.0	.0	.1	.4	4.8	8.4	2.7	1038	16.3
70/74	.0	.0	.0	.0	*	.1	.3	.3	96	.7
65/69	.0	.0	.0	.0	.0	.0	*	.0	1	*
TOTAL	0	0	8	84	965	2866	1976	454	6353	100.0
PCT	.0	.0	.1	1.3	15.2	45.1	31.1	7.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	*	*	.0	.0	*	*	.0	.0
	.1	*	.1	*	.1	.1	.6	.4	.0	.1
	1.1	.5	.5	.5	.6	1.7	6.9	4.1	.0	2.1
	4.4	1.8	2.4	1.5	1.5	4.6	25.1	14.2	.0	7.3
	1.6	.8	.8	.3	.2	.8	5.4	4.3	.0	2.3
	.1	*	*	*	*	*	.2	.2	.0	.1
	.0	.0	.0	.0	.0	.0	.0	.0	.0	*
	7.4	3.2	3.8	2.4	2.3	7.4	38.2	23.3	.0	12.0

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	96	90	88	83	80	77	70	83.4	2060
06E09	96	86	84	81	77	75	69	81.0	1927
12E15	92	85	84	80	76	73	69	80.0	2065
18E21	97	92	89	84	79	75	68	83.8	2324
TOT	97	90	88	82	77	75	68	82.1	8376

TABLE 16

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	1.5	22.0	51.6	21.4	3.4	75	1623
06E09	.0	.7	7.0	40.7	41.8	9.7	80	1520
12E15	.0	.3	5.1	36.8	45.0	12.8	81	1612
18E21	.0	3.1	24.7	50.8	18.1	3.3	74	1770
TOT	0	96	987	2954	2031	467	77	6535

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1862-1979

AREA C007 ACAPULCO SOUTH
15.7N 98.9W

TABLE 17

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

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	*	*	*	*	8	.0	.1
11/13	.0	.0	.0	*	.1	.1	.1	16	.0	.2
9/10	.0	.0	*	.1	.2	.2	.1	42	.0	.6
7/8	.0	.0		.2	.4	.5	.1	90	.0	1.2
6	.0	.0	*	.3	.7	.3	.0	93	.0	1.3
5	.0	.0	.1	.4	1.2	.5	.0	158	.0	2.2
4	.0	*	.2	1.3	1.5	.4	*	243	.0	3.4
3	.0	*	.3	1.4	2.0	.2	.0	284	.0	3.9
2	.0	.0	.5	3.7	2.9	.1	*	524	*	7.2
1	.0	*	.8	4.3	2.5	*	.0	550	*	7.6
0	.0	.1	1.8	9.9	2.5	.1	.0	1041	*	14.4
-1	.0	.2	2.4	7.8	1.4	*	.0	854	.0	11.9
-2	*	.2	4.9	10.1	.7	*	.0	1144	*	15.8
-3	.0	.3	4.1	5.6	.3	.0	.0	7[illegible]	*	10.3
-4	*	.5	4.0	3.9	.1	.0	.0	617	.0	8.6
-5	*	.3	3.1	2.0	.1	.0	.0	401	*	5.6
-6	.0	.3	1.6	.6	.0	.0	.0	184	.0	2.6
-7/-8	*	.3	1.3	.4	.0	.0	.0	151	*	2.1
-9/-10	*	.2	.3	.1	*	.0	.0	40	.0	.6
-11/-13	*	.1	.1	*	.0	.0	.0	14	.0	.2
-14/-16	*	.0	*	.0	.0	.0	.0	4	.0	.1
-17/-19	*	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	16	191	1837	3762	1200	175	22	7203	13	719C
PCT	.2	2.7	25.5	52.2	16.7	2.4	.3	100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	1.2	.1	.0	.C	.0	2.1
1-2	.6	2.6	.1	.0	.C	.0	3.3
3-4	.3	.7	.2	.0	.C	.0	1.2
5-6	.0	.1	.0	.0	.0	.0	.1
7	.C	.0	.0	.0	.C	.0	.0
8-9	.0	.0	.0	.0	.C	.0	.0
10-11	.0	.0	.0	.0	.C	.0	.0
12	.0	.0	.0	.0	.C	.0	.0
13-16	.0	.0	.0	.0	.C	.0	.0
17-19	.0	.0	.0	.0	.C	.0	.0
20-22	.0	.0	.0	.0	.C	.0	.0
23-25	.C	.0	.0	.0	.C	.0	.0
26-32	.0	.0	.0	.0	.C	.0	.0
33-40	.0	.0	.0	.0	.C	.0	.0
41-48	.0	.0	.0	.0	.C	.0	.0
49-60	.C	.0	.0	.0	.C	.0	.0
61-70	.0	.0	.0	.0	.C	.0	.0
71-86	.0	.0	.0	.0	.C	.0	.0
87+	.C	.0	.0	.0	.C	.0	.0
TOT PCT	1.7	4.6	.3	.0	.C	.0	6.6

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.6	.C	.C	.C	.C	.8
1-2	.2	.9	.3	.0	.0	.0	1.3
3-4	.1	.3	.1	.0	.0	.0	.5
5-6	.0	.1	.0	.1	.C	.C	.1
7	.0	.0	.1	.0	.C	.C	.1
8-9	.0	.0	*	.0	.0	.C	*
10-11	.0	.0	.C	.0	.0	.0	.0
12	.0	.0	.0	.0	.C	.0	.0
13-16	.0	.0	.0	.0	.C	.0	.0
17-19	.0	.0	.0	.0	.C	.0	.0
20-22	.0	.0	.0	.0	.C	.0	.0
23-25	.0	.0	.0	.0	.C	.0	.0
26-32	.0	.0	.0	.0	.C	.0	.0
33-40	.0	.0	.0	.0	.C	.0	.0
41-48	.0	.0	.0	.0	.C	.0	.0
49-60	.0	.0	.0	.0	.C	.0	.0
61-70	.0	.0	.0	.0	.C	.0	.0
71-86	.0	.0	.0	.0	.C	.0	.0
87+	.0	.0	.0	.0	.C	.0	.0
TOT PCT	.5	1.9	.5	.1	.0	.0	2.9

E

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

SE

HGT	1-3	4-10	11-2[illegible]	22-33	34-47	48+	PCT
<1	.3	.3	.0	.0	.0	.0	.6
1-2	.1	.4	.1	.0	.0	.0	.7
3-4	.0	.3	.1	.0	.0	.0	.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	.4	1.0	.3	.0	.0	.0	1.7

PERIOD: (OVER-ALL) 1963-1979 APRIL AREA 0007 ACAPULCO SOUTH

TABLE 18 (CONT) 15.7N 98.9W

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

S

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

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	1.9	.1	.0	.0	.0	2.8
1-2	.3	2.6	.2	.0	.0	.0	3.1
3-4	.1	.5	.5	.0	.0	.0	1.1
5-6	.0	.1	.1	.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	1.3	5.1	.9	.0	.0	.0	7.2

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.0	5.8	.0	.0	.0	.0	7.8
1-2	1.3	16.2	3.7	.0	.0	.0	21.2
3-4	.1	5.2	3.2	.1	.0	.0	8.7
5-6	.0	.6	1.6	.0	.0	.0	2.2
7	.0	.1	.3	.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	3.5	27.8	8.9	.1	.0	.0	40.4

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	4.4	.1	.0	.0	.0	5.7
1-2	1.2	10.2	1.5	.0	.0	.0	12.8
3-4	.1	3.5	.9	.0	.0	.0	4.5
5-6	.0	.5	.7	.0	.0	.0	1.2
7	.0	*	.1	.0	.0	.0	.1
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.4	18.6	3.3	.0	.0	.0	24.4

HGT	TOTAL PCT
<1	
1-2	
3-4	
5-6	
7	
8-9	
10-11	
12	
13-16	
17-19	
20-22	
23-25	
26-32	
33-40	
41-48	
49-60	
61-70	
71-86	
87+	
TOT PCT	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	18.0	15.0	.3	.0	.0	.0	33.3	
1-2	4.6	34.0	6.3	.0	.0	.0	44.9	
3-4	.9	10.7	5.4	.1	.0	.0	17.1	
5-6	.0	1.3	2.5	.1	.0	.0	3.9	
7	.0	.1	.5	.0	.0	.0	.6	
8-9	.0	.0	.1	.0	.0	.0	.1	
10-11	.0	.0	.1	.0	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1488
TOT PCT	23.5	61.2	15.1	.2	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1979 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	PEAK HGT
<6	9.7	25.6	14.7	3.5	.8	.2	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3045	2
6-7	.3	3.0	5.8	3.3	.8	.4	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	768	4
8-9	.1	1.5	2.8	1.6	.6	.4	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	394	4
10-11	.0	1.2	1.4	.9	.2	.1	*	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	218	4
12-13	.0	.0	1.1	.4	.2	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	105	4
>13	.0	.0	.0	.3	.1	*	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	6
INDET	12.7	2.7	2.1	.8	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1028	1
TOTAL	1266	1891	1565	602	155	68	21	10	5	3	0	0	0	0	0	0	0	0	0	5586	2
PCT	22.7	33.9	28.0	10.8	2.8	1.2	.4	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1861-1979

AREA 0007 ACAPULCO SOUTH
15.7N 98.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG W/O PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	NO SIG WEA
N	1.2	.3	.6	.0	.0	.0	.0	1.9	1.3	2.8	.7	.0	8.8	.0	84.6
NE	2.1	.7	.3	.0	.0	.0	.0	3.0	3.0	4.6	2.1	.0	7.6	.0	79.9
E	6.6	1.4	1.5	.0	.0	.0	.0	9.3	3.9	5.3	.2	.0	4.2	.3	77.3
SE	4.2	2.2	1.0	.0	.0	.0	.0	7.4	2.9	6.2	.2	.0	5.5	.4	77.7
S	3.6	.9	.9	.0	.0	.0	.0	5.1	2.1	5.1	.2	.0	3.3	.0	84.6
SW	.7	.3	.1	.0	.0	.0	.0	1.1	.5	3.2	.7	.0	9.2	.1	85.3
W	.2	.2	.1	.0	.0	.0	.0	.5	.2	.9	.5	.0	7.2	.1	90.6
NW	.4	.3	.2	.0	.0	.0	.0	.9	.3	1.7	.3	.0	6.8	.1	89.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.1	.3	.0	.0	.0	.0	.0	.4	.4	2.6	.2	.0	15.6	.1	80.6
TOT PCT	1.0	.4	.3	.0	.0	.0	.0	1.7	.8	2.3	.5	.0	8.0	.1	86.7
TOT OBS:	8679														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG W/O PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	NO SIG WEA
00E03	.4	.2	.2	.0	.0	.0	.0	.8	.3	.4	.4	.0	7.8	*	90.2
06E09	1.1	.6	.2	.0	.0	.0	.0	1.8	.9	6.5	.5	.0	6.1	*	84.5
12E15	1.7	.8	.6	.0	.0	.0	.0	3.0	1.5	2.7	.7	.0	6.9	.2	85.1
18E21	.9	.3	.2	.0	.0	.0	.0	1.4	.6	.1	.6	.0	10.1	.1	87.1
TOT PCT	1.0	.5	.3	.0	.0	.0	.0	1.7	.8	2.3	.5	.0	7.8	.1	86.7
TOT OBS:	8693														

TABLE 3

PERCENTAL F WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	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	4.7	.5	*	.0	*		6.8	6.1	2.5	1.6	5.6	3.7	12.5	7.1	7.4	6.5
NE	.8	2.3	.3	.1	.0	.0		3.5	6.6	1.7	4.4	3.5	5.2	4.9	6.4	3.3	4.1
E	.8	3.0	.9	.2	*	*		5.0	9.0	2.7	3.7	4.6	7.8	6.0	7.5	6.0	8.7
SE	.8	2.4	.8	.1	*	*		4.1	8.4	4.8	4.4	4.4	3.3	2.9	5.0	4.3	5.1
S	.9	2.1	.4	.1	*	*		3.4	6.8	5.3	6.5	4.0	3.9	1.7	2.8	2.5	4.4
SW	1.7	6.0	1.1	*	.0	.0		8.7	6.6	17.4	16.5	7.9	10.0	2.9	4.3	6.5	7.4
W	4.2	24.3	7.2	.1	*	.0		35.7	8.0	48.7	43.5	38.1	37.6	24.5	31.6	31.4	36.6
NW	3.4	15.1	3.6	*	.0	.0		22.1	7.4	11.4	17.3	18.4	18.9	32.7	28.6	25.8	20.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.6							10.6	.0	5.5	2.1	13.6	9.6	11.7	6.7	12.7	7.1
TOT OBS	2277	5502	1369	58	8	6	9220		6.8	2108	142	2017	135	2026	239	2383	170
TOT PCT	24.7	59.7	14.8	.6	.1	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.7	2.0	.1	.0	*		6.8	6.1	2.4	5.4	12.0	7.3
NE	2.1	1.3	.1	*	.0		3.5	6.6	1.9	3.6	5.1	3.4
E	2.4	2.2	.3	.1	.1		5.0	9.0	2.8	4.8	6.2	6.2
SE	2.1	1.6	.3	.1	*		4.1	8.4	4.8	4.3	3.1	4.3
S	2.1	1.2	.1	*	*		3.4	6.8	5.4	4.0	1.8	2.6
SW	5.0	3.6	.1	*	.0		8.7	6.6	17.4	8.0	3.1	6.6
W	15.2	19.5	1.1	*	.0		35.7	8.0	48.4	38.0	25.3	31.9
NW	10.8	11.0	.4	*	.0		22.1	7.4	11.8	18.4	32.3	25.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	10.6						10.6	.0	5.3	13.4	11.2	12.3
TOT OBS	5058	3899	233	22	8	9220		6.8	2250	2152	2265	2553
TOT PCT	54.9	42.3	2.5	.2	.1		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1861-1979

AREA CODE ACAPULCO SOUTH
15.7N 98.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00E03	5.3	11.0	51.9	21.1	.6	.1	.0	7.9	100.0	2250
06E09	13.4	13.4	58.8	13.6	.7	.1	.1	6.5	100.0	2152
12E15	11.2	15.2	60.5	12.6	.4	*	*	6.3	100.0	2265
18E21	12.3	16.6	57.7	12.4	.8	.1	.1	6.3	100.0	2552
TOT	974	1303	5502	1369	58	8	6	6.8		9220
PCT	10.6	14.1	59.7	14.8	.6	.1	.1		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.5	1.4	2.1	1.1		4.0
NE	1.1	.6	.9	.7		4.2
E	1.0	.9	1.8	1.4		5.0
SE	.9	.7	1.5	1.1		5.1
S	1.2	.5	1.0	.6		4.2
SW	3.5	1.9	2.2	.9		3.9
W	16.8	8.1	7.6	3.1		3.1
NW	9.4	5.0	5.4	2.3		3.4
VAR	.0	.0	.0	.0		.0
CALM	5.1	2.0	2.4	1.5		3.3
TOT OBS	2883	1475	1725	872	6955	3.5
TOT PCT	41.5	21.2	24.8	12.5	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	AM <5/8 ANY HGT	TOTAL OBS
N	*	*	.1	.4	.4	.3	.1	.1	*	*	5.8	
NE	*	.0	*	.2	.3	.1	*	*	.0	*	2.6	
E	.1	*	.1	.4	.7	.1	.1	.1	*	*	3.3	
SE	.1	*	.1	.3	.5	.2	.1	*	*	.1	3.0	
S	.1	.0	.1	.1	.3	.1	*	.0	*	*	2.4	
SW	.1	*	*	.2	.4	.1	.1	*	*	*	7.4	
W	.2	*	.1	.6	1.4	.8	.3	.2	.1	.1	31.7	
NW	.1	*	.1	.6	1.0	.5	.4	.1	.2	.2	19.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.1	.3	.5	.2	.1	*	*	.2	9.4	
TOT OBS	42	11	39	210	379	170	85	36	28	64	5888	6955
TOT PCT	.6	.2	.6	3.0	5.4	2.4	1.2	.6	.4	.9	84.7	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >5070	= OR >0
= OR >6500	1.1	1.3	1.4	1.4	1.4	1.4	1.4	1.4
= OR >5000	1.6	1.9	1.9	1.9	1.9	1.9	1.9	1.9
= OR >3500	2.5	3.0	3.1	3.1	3.1	3.1	3.1	3.1
= OR >2000	4.5	5.4	5.5	5.5	5.5	5.5	5.5	5.5
= OR >1000	8.9	10.7	10.9	10.9	10.9	10.9	10.9	10.9
= OR >600	11.2	13.6	13.8	13.8	13.9	13.9	13.9	13.9
= OR >300	11.6	14.1	14.3	14.4	14.4	14.4	14.4	14.4
= OR >150	11.7	14.2	14.5	14.5	14.6	14.6	14.6	14.6
= OR > 0	12.1	14.8	15.1	15.1	15.2	15.2	15.2	15.2
TOTAL	844	1052	1075	1078	1081	1082	1084	1085

TOTAL NUMBER OF OBS: 7131

PCT FREQ AM <5/8: 84.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
29.1	18.0	16.9	12.1	7.7	4.2	3.9	3.1	4.5	.4	7589

PERIOD: (PRIMARY) 1957-1979
(OVER-ALL) 1861-1979

AREA 0007 ACAPULCO SOUTH
15.7N 98.9W

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	NO PCP	.0	.0	*	.0	.0	.0	*	*	.0	.0	*	
	TOT %	.0	.0	*	.0	.0	.0	*	*	.0	.0	.1	
1/2<1	PCP	.0	.0	*	*	.0	.0	.0	.0	.0	.0	*	
	NO PCP	*	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
	TOT %	*	.0	*	*	.0	*	.0	.0	.0	.0	.1	
1<2	PCP	*	*	*	*	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	*	*	.0	.0	.0	*	.0	.0	*	.1	
	TOT %	*	*	.1	*	.0	.0	*	.0	.0	*	.1	
2<5	PCP	*	*	.1	*	.0	*	*	*	.0	*	.2	
	NO PCP	.1	.1	.1	.1	.1	*	.2	.1	.0	*	.7	
	TOT %	.1	.1	.1	.1	.1	*	.2	.1	.0	*	.9	
5<10	PCP	*	.1	.2	.2	.1	*	.1	*	.0	*	.7	
	NO PCP	.8	.5	.6	.6	.3	1.2	3.3	2.0	.0	1.9	11.2	
	TOT %	.9	.6	.8	.7	.4	1.2	3.4	2.1	.0	1.9	11.9	
10+	PCP	.1	*	.1	.1	.1	.1	.1	.1	.0	*	.7	
	NO PCP	5.6	2.8	3.8	3.2	2.8	7.4	32.2	19.6	.0	9.6	86.3	
	TOT %	5.6	2.8	3.9	3.3	2.9	7.5	32.3	19.7	.0	6.6	87.0	
	TOT OBS												8665
	TOT PCT	6.9	3.5	5.0	4.2	3.4	8.7	35.8	21.9	.0	10.6	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	*	
	4-10	.0	.0	.0	.0	.0	.0	*	*	.0		.1	
	11-21	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	22+	.0	.0	*	.0	.0	.0	.0	*	.0		*	
	TOT %	.0	.0	*	.0	.0	.0	.1	*	.0	.0	.1	
1/2<1	0-3	.0	*	*	.0	.0	*	.0	.0	.0	.0	*	
	4-10	*	.0	.0	.0	.0	*	.0	.0	.0		*	
	11-21	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	TOT %	*	*	*	*	.0	*	.0	.0	.0	.0	.1	
1<2	0-3	.0	.0	*	*	.0	.0	*	.0	.0	*	.1	
	4-10	.0	.0	.0	.0	.0	.0	*	.0	.0		*	
	11-21	*	*	*	*	.0	.0	*	*	.0		.1	
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	TOT %	*	*	.1	*	.0	.0	.1	*	.0	*	.2	
2<5	0-3	*		*	*	*	*	*	.1	.0	.1	.3	
	4-10	.1	.	.1	.1	*	*	.1	.1	.0		.5	
	11-21	.0	*	*	*	*	*	*	*	.0		.2	
	22+	.0	.0	*	*	*	.0	.0	.0	.0		.1	
	TOT %	.1	.1	.2	.1	.1	*	.2	.2	.0	.1	1.1	
5<10	0-3	.2	.2	.1	.1	.1	.3	.6	.4	.0	1.9	3.9	
	4-10	.6	.3	.4	.4	.3	.8	2.2	1.3	.0		6.3	
	11-21	.1	.1	.2	.2	*	.1	.6	.2	.0		1.4	
	22+	*	*	.1	.1	*	*	.0	.0	.0		.2	
	TOT %	.9	.6	.8	.7	.4	1.2	3.3	2.0	.0	1.9	11.8	
10+	0-3	1.4	.6	.7	.6	.8	1.3	3.5	2.7	.0	8.6	20.3	
	4-10	4.1	1.9	2.5	2.0	1.8	5.1	23.9	13.6	.0		52.8	
	11-21	.4	.3	.7	.6	.3	1.0	6.6	3.4	.0		13.3	
	22+	*	.1	.1	.1	*	*	.1	*	.0		.3	
	TOT %	5.9	2.8	4.0	3.3	2.9	7.4	32.1	19.7	.0	8.6	86.7	
	TOT OBS												8965
	TOT PCT	6.9	3.5	5.1	4.2	3.4	8.7	35.7	21.9	.0	10.6	100.0	

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1861-1979

AREA 0007 ACAPULCO SOLTH
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TABLE 1C

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	MH <5/8 ANY HGT	TOTAL OBS
00E03	.4	.1	.3	1.6	3.2	1.4	.6	.3	.4	1.0	9.3	90.7	1880
06E09	1.0	.1	.6	3.0	4.9	2.2	.9	.5	.4	.7	14.4	85.6	1744
12E15	.4	.1	.8	4.8	6.7	3.2	1.5	.7	.4	1.0	19.6	80.4	1807
18E21	.5	.3	.4	2.3	5.9	2.5	1.5	.5	.4	.9	15.3	84.7	2028
TOT	44	11	39	216	386	173	85	39	30	67	1090	6269	7459
PCT	.6	.1	.5	2.9	5.2	2.3	1.1	.5	.4	.9	14.6	85.4	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	*	.1	1.3	9.3	89.3	2221
06E09	.2	.1	.2	.7	11.6	87.2	2187
12E15	.2	*	.2	1.5	14.2	83.8	2266
18E21	.1	.2	.3	1.1	12.5	85.8	2556
TOT	12	9	19	105	1101	7984	9230
PCT	.1	.1	.2	1.1	11.9	86.5	100.0

TABLE 12

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

HOUR (GMT)	<150 <5CYD	<600 <1	<1000 <5	1000+ AND5+	MH <5/8 AND 5+	TOTAL OBS
00E03	.4	.8	3.3	7.0	89.7	1789
06E09	1.2	1.8	5.6	10.1	84.3	1650
12E15	.5	1.6	7.4	13.6	79.0	1736
18E21	.6	1.4	4.3	12.0	83.7	1956
TOT	45	99	365	763	6003	7131
PCT	.6	1.4	5.1	10.7	84.2	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	8	.1
90/94	.0	.0	.0	.4	2.0	1.0	.2	.1	263	3.6
85/89	.0	.0	*	.3	6.2	17.4	4.7	.7	2140	29.3
80/84	.0	.0	*	.2	4.3	25.5	25.8	4.2	4388	60.1
75/79	.0	.0	.0	.0	.1	1.5	2.9	2.4	498	6.8
70/74	.0	.0	.0	.0	.0	.0	*	.1	6	.1
TOTAL	0	0	2	68	928	3312	2452	541	7303	100.0
PCT	.0	.0	*	.9	12.7	45.4	33.6	7.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	.0	.0	.1	*	.0	*
	.2	.1	.1	.1	.1	.1	.3	1.3	.9	.0	.5
	1.8	.9	1.4	1.3	1.3	3.1	10.4	5.8	.0	3.3
	4.4	2.2	2.6	2.3	1.9	4.5	21.7	13.6	.0	6.8
	.6	.3	.9	.4	.3	.2	1.8	1.5	.0	.8
	*	*	*	*	.0	.0	*	*	.0	.0
	7.0	3.4	5.0	4.2	3.5	8.2	35.3	21.9	.0	11.5

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	97	91	89	86	80	78	73	84.6	2277
06E09	95	87	85	82	79	77	70	82.4	2230
12E15	92	86	85	82	78	75	71	81.5	2316
18E21	98	93	90	85	80	77	72	85.2	2608
TOT	98	92	89	83	79	76	70	83.5	9431

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	PEAK	TOTAL OBS
00E03	.0	.9	15.5	56.5	22.9	4.2	76	1858
06E09	.0	.4	4.6	40.9	45.7	8.4	80	1815
12E15	.0	.3	4.7	32.9	49.1	13.0	82	1926
18E21	.0	2.1	24.4	49.9	19.2	4.4	74	2032
TOT	0	72	948	3397	2538	556	78	7511

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1861-1979

AREA 0007 ACAPULCO SOUTH
15.7N 98.9W

TABLE 17

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

AIR-SEA	69	73	77	81	85	89	>92	TOT	*	NO
IMP DIF	72	76	80	84	88	92			FOG	FOG
14/16	.0	.0	.0	.0	.1	*	.0	8	.0	.1
11/13	.0	.0	.0	*	.1	.1	.1	23	.0	.2
9/10	.0	.0	.0	*	.2	.3	.1	48	.0	.6
7/8	.0	.0	.0	.1	.3	.6	.1	94	.0	1.2
6	.0	.0	*	.1	.5	.6	.1	125	.0	1.3
5	.0	.0	*	.4	.9	.8	*	177	*	2.1
4	.0	.0	.1	.7	1.6	.9	*	266	.0	3.3
3	.0	.0	.1	.6	2.1	.7	.0	290	*	3.6
2	.0	*	.2	2.3	3.6	.5	*	538	*	6.6
1	.0	.0	.2	3.1	3.8	.1	.0	564	.1	7.2
0	.0	*	.7	8.3	5.3	.2	.0	1185	.1	14.4
-1	.0	*	.8	9.0	3.7	*	.0	1023	.1	12.5
-2	*	*	1.5	11.0	2.5	*	.0	1223	.1	14.9
-3	.0	*	1.8	7.1	1.3	*	.0	825	*	10.3
-4	.0	.1	2.7	6.4	.6	.0	.0	790	*	9.7
-5	.0	.1	1.9	3.3	.3	.0	.0	452	*	5.5
-6	.0	.1	1.2	1.2	.1	.0	.0	208	.0	2.6
-7/-8	.0	.2	1.2	.8	*	.0	.0	197	.0	2.3
-9/-10	.0	.2	.4	.2	.0	.0	.0	61	.0	.8
-11/-13	*	.1	*	*	.0	.0	.0	15	.0	.2
-14/-16	.0	.0	*	.0	.0	.0	.0	2	.0	*
TOTAL	3	6A	1057	4367	2184	404	38	8126	47	8079
PCT	*	.8	13.0	53.7	26.9	5.0	.5	100.0	.6	99.4

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

PCT FREQ OF 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	2.0	.0	.0	.0	.0	2.8
1-2	.4	2.2	.3	.0	.0	.0	2.8
3-4	.1	.6	.2	.0	.0	.0	.9
5-6	.0	.1	.1	.0	.0	.0	.3
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	4.9	.7	.1	.0	.0	7.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.1	.0	.0	.0	.0	1.5
1-2	.1	.6	.2	.0	.0	.0	1.1
3-4	.0	.3	.1	.0	.0	.0	.4
5-6	.0	.1	.1	.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	.6	2.2	1.4	.1	.0	.0	4.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.6	.0	.0	.0	.0	.8
1-2	.3	1.7	.2	.0	.0	.0	2.1
3-4	.1	.6	.2	.0	.0	.0	1.0
5-6	.0	.0	.3	.0	.0	.0	.3
7	.0	*	.2	.0	.0	.0	.2
8-9	.0	.0	.1	*	.0	.0	.1
10-11	.0	.0	.0	*	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	2.7	1.4	.1	.0	.0	4.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.1	.0	.0	.0	.0	1.5
1-2	.1	.6	.2	.0	.0	.0	.9
3-4	.0	.3	.1	.0	.0	.0	.4
5-6	.0	.1	.1	.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	2.9	.7	.2	.1	.0	4.6

PERIOD: (OVER-ALL) 1963-1979 AREA CODE ACAPULCO SOUTH 15.7N 98.5W

TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.5	.0	.0	.0	.0	.7
1-2	.1	1.0	.1	.0	.0	.0	1.2
3-4	*	.5	.1	.0	.0	.0	.6
5-6	.0	.0	*	.0	.0	.0	*
7	.0	*	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.0	.3	.1	.0	.0	2.8

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.7	4.7	.4	.0	.0	.0	6.8
1-2	.5	3.0	.4	.0	.0	.0	3.9
3-4	.2	.8	.5	.0	.0	.0	1.6
5-6	.1	.1	.2	.0	.0	.0	.4
7	.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	2.6	10.9	4.3	*	.0	.0	23.8

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.0	5.3	.1	.0	.0	.0	7.4
1-2	1.1	12.7	2.6	.0	.0	.0	16.4
3-4	.4	5.0	4.0	.1	.0	.0	9.5
5-6	.0	.3	.7	.0	.0	.0	1.1
7	.0	.1	.2	*	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.1	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	23.5	7.7	.1	.0	.0	34.8

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	4.5	.0	.0	.0	.0	5.6
1-2	1.2	9.2	1.6	.0	.0	.0	11.9
3-4	.3	2.8	1.9	*	.0	.0	5.0
5-6	.0	.2	.7	.0	.0	.0	1.0
7	.0	*	*	*	.0	.0	.1
8-9	.0	.1	.1	.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	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.6	16.9	4.3	*	.0	.0	23.8

HGT	TOTAL PCT
<1	5.6
1-2	11.9
3-4	5.0
5-6	1.0
7	.1
8-9	.2
10-11	.0
12	.0
13-16	.1
17-19	.0
20-22	.0
23-25	.0
26-32	.0
33-40	.0
41-48	.0
49-60	.0
61-70	.0
71-86	.0
87+	.0
TOT PCT	89.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	16.9	16.5	.1	.0	.0	.0	33.5	
1-2	4.7	31.3	5.4	.0	.0	.0	41.4	
3-4	1.3	10.8	7.4	.2	.0	.0	19.7	
5-6	.2	.8	2.3	.1	.0	.0	3.5	
7	.0	.4	.6	.1	.0	.0	1.1	
8-9	.0	.1	.2	.2	.0	.0	.5	
10-11	.0	.0	.0	.1	.1	.1	.3	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.1	.0	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	23.1	60.0	16.2	.6	.1	.1	100.0	1013

PERIOD: (OVER-ALL) 1949-1979

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	PEAK HGT
<6	7.7	22.2	16.9	4.1	1.2	.2	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	3235	2
6-7	.2	3.0	6.6	4.7	1.5	.4	.2	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1076	4
8-9	.1	1.6	3.0	2.3	.8	.3	.2	.0	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	543	4
10-11	.0	1.5	1.9	1.1	.4	.2	.1	.0	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	307	4
12-13	.0	.0	1.1	.6	.4	.1	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	151	5
>13	.0	*	.0	.4	.4	.1	*	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	61	7
INDET	9.7	2.9	2.4	.8	.3	.1	.1	*	*	*	.0	*	*	*	.0	.0	.0	.0	.0	1055	1
TOTAL	1163	2010	1899	902	322	92	44	11	16	7	3	3	7	.0	.0	.0	.0	.0	.0	6456	1
PCT	17.7	31.1	29.4	14.0	5.0	1.4	.8	.2	.2	.1	*	*	*	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1883-1979

AREA 0007 ACAPULCO SOUTH
15.7N 98.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	3.5	2.1	1.0	.0	.0	.0	.0	6.6	3.9	6.4	.0	.0	.4	.0	83.5
NE	7.1	3.5	2.6	.0	.0	.0	.1	13.0	4.4	7.3	.2	.0	.4	.0	75.3
E	8.8	3.7	2.0	.0	.0	.0	.1	14.5	6.7	4.7	.0	.0	.5	.1	73.9
SE	8.6	4.4	2.1	.0	.0	.0	.0	14.9	5.9	4.9	.1	.0	.2	.0	74.4
S	6.7	2.6	2.7	.0	.0	.0	.0	11.4	4.8	6.0	.0	.0	.3	.2	78.0
SW	5.0	1.2	1.8	.0	.0	.0	.0	8.1	4.2	5.0	.0	.0	.3	.2	82.2
W	5.0	1.2	1.8	.0	.0	.0	.0	8.1	4.2	5.0	.0	.0	.3	.2	82.2
NW	2.7	2.0	.8	.0	.0	.0	.0	5.4	3.0	3.2	*	.0	.4	.0	87.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4	1.0	.4	.0	.0	.0	.0	2.9	1.3	5.5	.1	.0	2.6	.0	87.6
TOT PCT	4.7	2.4	1.4	.0	.0	.0	*	8.6	3.9	4.7	.1	.0	.6	*	82.3
TOT OBS:	8214														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00E03	2.7	1.1	1.1	.0	.0	.0	.0	4.8	2.7	.8	*	.0	.6	.0	91.0
06E09	5.6	3.0	1.7	.0	.0	.0	.0	10.3	4.8	12.5	.1	.0	.5	.1	72.2
12E15	7.4	3.8	1.9	.0	.0	.0	*	13.1	4.6	6.4	.1	.0	.5	.0	75.8
18E21	3.9	2.0	1.0	.0	.0	.0	.0	6.8	3.2	.6	*	.0	.8	.1	88.5
TOT PCT	4.9	2.4	1.4	.0	.0	.0	*	8.7	3.8	4.8	.1	.0	.6	*	82.2
TOT OBS:	8435														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.1	3.6	.6	*	*	*		5.4	7.2	1.5	1.9	4.4	4.0	4.8	6.6	6.3	4.1
NE	.8	3.8	.8	.1	.1	*		5.7	8.1	2.5	7.2	4.9	4.9	8.6	10.1	6.0	4.6
E	1.2	6.0	3.6	1.0	.2	*		12.1	11.2	8.6	11.7	11.3	11.6	13.0	16.1	14.4	14.4
SE	1.1	6.2	3.9	.6	.2	*		12.1	11.1	13.5	12.4	12.7	15.6	8.8	12.4	12.2	16.8
S	1.3	4.1	1.5	.2	.1	*		7.2	8.6	11.6	12.8	7.4	10.1	3.7	5.4	5.6	7.5
SW	1.2	5.8	1.7	.2	.1	*		9.1	8.6	16.5	17.2	8.9	10.7	4.6	6.9	6.2	10.6
W	2.5	15.4	6.7	.1	*	*		25.1	9.1	32.5	26.4	27.1	21.1	14.8	17.3	22.7	22.4
NW	1.8	9.6	3.2	.2	*	*		14.8	8.3	8.6	6.5	11.4	13.9	23.7	19.2	17.5	13.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.7							8.7	.0	4.6	8.8	11.7	8.1	9.9	6.6	9.3	4.1
TOT OBS	1725	4747	1907	253	58	14	8704		8.5	1972	181	1838	149	1882	257	2231	194
TOT PCT	19.8	54.5	21.9	2.9	.7	.2		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.8	2.4	.1	*	*		5.4	7.2	1.6	4.0	9.5	5.9
NE	3.0	2.4	.2	.1	*		5.7	8.1	2.9	4.9	8.8	6.0
E	3.9	5.8	1.9	.4	.1		12.1	11.2	8.9	11.3	13.4	14.4
SE	3.7	6.3	1.7	.4	.1		12.1	11.1	13.4	12.9	9.3	12.6
S	3.5	3.0	.5	.1	*		7.2	8.6	11.7	7.6	3.9	5.8
SW	4.0	4.4	.5	.1	*		9.1	8.6	16.1	9.0	4.8	6.6
W	9.4	13.7	1.8	.1	*		25.1	9.1	32.0	26.7	19.5	22.7
NW	6.3	7.8	.7	*	*		14.8	8.3	8.4	13.6	21.4	17.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	8.7						8.7	.0	5.0	11.4	9.5	8.5
TOT OBS	3938	3979	647	114	26	8704		8.5	2153	1987	2139	2425
TOT PCT	45.2	45.7	7.4	1.3	.3		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1957-1979
(OVER-ALL) 1953-1979

AREA CODE ACAPULCO SCLTH
15.7% 98.6%

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00-03	5.0	10.4	55.1	25.5	3.2	.7	.2	9.2	100.0	2153
04-09	11.4	10.2	53.1	22.0	2.3	.7	.3	8.2	100.0	1987
12-15	9.5	11.4	57.0	18.8	2.6	.6	.1	8.0	100.0	2129
16-21	8.9	12.5	53.0	21.3	3.4	.7	.1	8.4	100.0	2425
TOT	753	972	4743	1907	253	56	14	8.5		8704
PCT	8.7	11.2	54.5	21.9	2.9	.7	.2		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.9	1.3	2.1	1.4		5.2
NE	.7	1.1	2.0	1.5		5.4
E	.9	1.8	4.7	4.1		6.0
SE	1.2	1.9	4.6	3.9		5.8
S	.9	1.5	2.8	1.9		5.5
SW	1.3	1.9	4.0	2.1		5.3
W	5.0	6.3	9.9	4.3		4.4
NW	3.0	3.9	5.4	2.9		4.6
VAR	.0	.0	.0	.0		.0
CALM	1.8	2.6	3.2	1.2		4.5
TOT OBS	1038	1466	2556	1536	6597	5.2
TOT PCT	15.7	22.2	38.9	23.3	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500+ 7999	WH <5/8 AN> MG*	TOTAL OBS
N	.1	*	.1	.6	.5	.3	.1	*	*	.5	5.0
NE	.1	*	.1	.5	.5	.3	.1	*	*	.5	5.4
E	.1	.1	.4	1.5	1.9	.8	.5	.2	.1	.1	6.2
SE	.2	.2	.4	1.4	2.0	.7	.3	.1	*	*	6.7
S	.1	*	.2	.7	.7	.3	.2	*	*	*	6.7
SW	.1	*	.1	.9	1.0	.4	.2	*	*	*	5.4
W	.3	.1	.3	1.5	2.7	.9	.5	.1	.2	.1	10.5
NW	.1	.1	.2	.9	1.4	.4	.3	.1	.1	.1	11.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	*	.1	.5	.7	.4	.1	.1	*	*	5.4
TOT OBS	65	38	141	555	752	305	139	51	25	21	4505
TOT PCT	1.0	.6	2.1	8.4	11.4	4.6	2.1	.8	.4	.2	68.3

TABLE 7

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

CEILING (FEET)	VSBY (NM) : GE >10	: GE >5	: GE >2	: GE >1	: GE >1/2	: GE >1/4	: GE >5EYE	: GE >0
: OR >6500	.7	.7	.7	.7	.7	.7	.7	.7
: OR >5000	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
: OR >3500	3.2	3.5	3.6	3.6	3.6	3.6	3.6	3.6
: OR >2000	7.0	7.4	8.1	8.1	8.2	8.2	8.2	8.2
: OR >1000	15.9	18.7	19.3	19.4	19.4	19.4	19.4	19.4
: OR >600	21.6	26.4	27.4	27.6	27.7	27.8	27.8	27.8
: OR >300	22.4	28.0	29.2	29.6	29.8	29.8	29.8	29.8
: OR >150	22.7	28.4	29.7	30.1	30.2	30.3	30.4	30.4
: OR > 0	22.9	28.9	30.5	30.9	31.1	31.2	31.3	31.4
TOTAL	1551	1955	2051	2090	2105	2110	2116	2123

TOTAL NUMBER OF OBS: 6762

PCT FREQ WH <5/8: 68.9

TABLE 7A

PERCENTAGE FREQ OF LCA CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
6.4	15.2	20.1	16.4	11.9	6.9	7.9	5.9	10.5	.6	7156

PERIOD: (PRIMARY) 1953-1976 AREA CODE (CAPULCO SOUTH
(OVER-ALL) 1963-1976 15.7N 98.9W

TABLE 8

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

VSBY (KM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	*	*	.1	*	.0	.1	*	.0	.0	.2	
	NO PCP	.0	*	*	*	*	.0	*	.0	.0	.0	.1	
	TOT %	.0	*	*	.1	.1	.0	.1	*	.0	.0	.4	
1/2<1	PCP	.0	*	*	.1	*	.1	*	*	.0	.0	.2	
	NO PCP	.0	*	*	*	.0	*	*	*	.0	.0	.1	
	TOT %	.0	*	.1	.1	*	.1	*	*	.0	.0	.3	
1<2	PCP	*	.1	.1	.1	.1	.1	.1	*	.0	*	.6	
	NO PCP	.0	*	*	*	*	*	*	*	.0	.0	.2	
	TOT %	*	.1	.1	.2	.1	.1	.1	.1	.0	*	.7	
2<5	PCP	*	.1	.3	.2	.1	.1	.1	.1	.0	*	1.2	
	NO PCP	*	*	.1	.1	.1	.1	.1	.1	.0	*	.6	
	TOT %	*	.2	.4	.3	.2	.2	.3	.1	.0	.1	1.8	
5<10	PCP	.2	.2	.6	.7	.4	.3	.5	.4	.0	.1	3.3	
	NO PCP	.3	.4	1.3	1.1	.5	.7	1.5	.8	.0	.5	7.3	
	TOT %	.5	.5	1.9	1.8	.9	.9	1.9	1.2	.0	.6	10.6	
10+	PCP	.1	.2	.6	.6	.1	.2	.6	.3	.0	.1	3.0	
	NO PCP	4.8	4.2	8.6	9.0	5.8	7.6	22.4	13.1	.0	7.6	83.1	
	TOT %	4.9	4.4	9.3	9.6	5.9	7.8	23.0	13.4	.0	7.8	86.2	
	TOT OBS												9200
	TOT PCT	5.5	5.6	11.8	12.1	7.1	9.0	25.4	14.9	.0	8.4	100.0	

TABLE 9

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

VSBY (KM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	*	.0	.0	*	*	.0	.0	.0	*	
	4-10	.0	*	*	*	*	.0	*	.0	.0		.1	
	11-21	.0	.0	.0	*	*	.0	*	*	.0		*	
	22+	.0	*	*	.1	*	.0	*	*	.0		.2	
	TOT %	.0	*	.1	.1	.1	*	.1	*	.0	.0	.4	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	.0	*	*	.0	*	*	*	.0		.1	
	11-21	.0	.0	*	.1	*	*	*	*	.0		.1	
	22+	.0	*	*	*	*	*	.0	.0	.0		.2	
	TOT %	*	*	.1	.1	*	.1	*	*	.0	.0	.4	
1<2	0-3	.0	.0	.0	*	.0	.0	*	*	.0	*	*	
	4-10	*	*	*	*	*	*	.1	.1	.0		.3	
	11-21	*	*	*	.1	*	*	*	*	.0		.2	
	22+	*	*	.1	.1	*	*	*	.0	.0		.3	
	TOT %	*	.1	.1	.2	.1	.1	.1	.1	.0	*	.8	
2<5	0-3	.0	*	*	*	.1	*	*	*	.0	.1	.2	
	4-10	*	.1	.1	.1	.1	.1	.2	.1	.0		.7	
	11-21	*	*	.1	.2	.1	.1	.2	*	.0		.6	
	22+	.0	*	.2	.1	*	*	*	*	.0		.5	
	TOT %	*	.2	.4	.4	.2	.2	.4	.2	.0	.1	2.1	
5<10	0-3	*	.1	.1	.1	.1	*	.1	.1	.0	.6	1.2	
	4-10	.1	.5	.6	.7	.4	.5	1.0	.7	.0		4.8	
	11-21	.1	.2	.9	.7	.3	.3	.6	.3	.0		3.4	
	22+	*	.1	.5	.2	*	.1	.2	*	.0		1.1	
	TOT %	.5	.8	1.9	1.8	.8	.9	1.9	1.2	.0	.6	10.5	
10+	0-3	1.0	.7	1.0	1.0	1.1	1.1	2.3	1.7	.0	7.9	17.9	
	4-10	3.2	3.2	5.2	5.3	3.6	5.2	14.3	8.8	.0		48.8	
	11-21	.6	.5	2.6	2.8	1.1	1.3	5.9	2.8	.0		17.6	
	22+	*	*	.5	.4	.1	.1	.4	.1	.0		1.5	
	TOT %	4.8	4.4	9.2	9.5	6.2	7.7	22.9	13.4	.0	7.9	85.8	
	TOT OBS												8499
	TOT PCT	5.4	5.6	11.9	12.1	7.2	9.1	25.4	14.9	.0	8.4	100.0	

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1883-1979

AREA 0007 ACAPULCO SOLTH
15.7N 98.9W

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00E03	.4	.4	1.8	6.1	9.8	4.1	1.7	.7	.3	.6	26.0	74.0	1809
06E09	1.7	.8	2.1	8.5	11.5	5.4	1.8	.8	.4	.1	33.2	66.8	1537
12E15	1.1	.'	2.6	10.2	13.2	3.7	1.8	.6	.5	.5	34.8	65.2	1748
18E21	.7	.9	1.6	7.4	9.5	4.5	2.6	.8	.3	.3	27.9	72.1	1954
TOT	67	38	143	565	769	310	140	52	25	26	2135	4913	7048
PCT	1.0	.5	2.0	8.0	10.9	4.4	2.0	.7	.4	.4	30.3	69.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.3	.4	.5	1.5	7.7	89.6	2135
06E09	.6	.6	.9	1.8	12.4	83.6	2008
12E1:	.3	.4	1.0	3.1	14.0	81.2	2149
18E21	.5	.2	.7	1.8	8.3	88.6	2433
TOT	39	34	69	179	915	7489	8725
PCT	.4	.4	.8	2.1	10.5	85.8	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NM <5/8 AND 5+	TOTAL OBS
00E03	.5	3.0	9.9	17.4	72.7	1728
06E09	1.7	5.0	14.5	20.0	65.6	1472
12E15	1.2	4.7	16.4	19.9	63.7	1690
18E21	.7	2.5	11.4	17.9	70.7	1872
TOT	67	258	876	1266	4620	6762
PCT	1.0	3.8	13.0	18.7	68.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	*	*	*	.0	.0	.0	5	.1
90/94	.0	.0	.0	.3	1.6	1.0	.2	.1	218	3.2
85/89	.0	.0	.0	.3	4.7	16.4	4.2	.8	1794	26.3
80/84	.0	.0	.0	.1	2.4	23.8	27.7	5.0	4031	59.1
75/79	.0	.0	.0	.0	.1	.7	4.1	6.0	741	10.9
70/74	.0	.0	.0	.0	.0	.0	*	.5	33	.5
TOTAL	0	0	1	50	402	2861	2467	841	6822	100.0
PCT	.0	.0	*	.7	5.8	41.9	36.2	12.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	*	*	.0	.0	.0	.0	*	.0	.0	*
	.3	.2	.2	.2	.2	.3	.9	.6	.0	.3
	1.1	1.1	2.2	2.7	1.7	2.8	7.8	4.2	.0	2.8
	3.4	3.3	7.1	7.0	4.1	4.9	18.8	8.7	.0	5.6
	.6	.9	2.0	1.7	1.0	1.2	1.6	1.3	.0	.5
	*	*	.1	.1	.1	.1	.1	.1	.0	*
	5.5	5.5	11.6	11.7	7.1	9.3	25.3	14.8	.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	95	91	89	84	79	76	70	84.1	2173
06E09	92	87	86	82	78	75	73	82.1	2040
12E15	95	86	85	82	76	74	69	81.2	2182
18E21	97	92	90	85	78	75	72	84.5	2467
TOT	97	91	89	83	78	75	69	83.0	8862

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.7	11.4	50.7	28.7	8.4	76	1757
06E09	.0	.2	3.5	37.2	44.2	14.8	82	1644
12E15	.0	.3	2.4	29.0	49.3	18.9	83	1743
18E21	.0	1.6	16.9	50.8	23.1	7.6	76	1863
TOT	0	52	614	2956	2522	863	79	7007

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1963-1979

AREA 0007 ACAPULCO SOUTH
15.7N 98.9W

TABLE 17

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

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	% FOG	NO FOG
14/16	.0	.0	.0	.0	*	.0	*	5	.0	.1
11/13	.0	.0	.0	*	*	.1	*	12	.0	.2
9/10	.0	.0	.0	.1	.1	.1	.1	24	.0	.3
7/8	.0	.0	*	.2	.2	.4	.1	72	.0	.9
6	.0	.0	*	.1	.2	.5	.1	71	.0	.9
5	.0	.0	*	.2	7	.7	*	125	.0	1.6
4	.0	.0	*	.4	1.3	.9	.1	201	.0	2.6
3	.0	.0	.1	.4	1.8	.7	.0	229	.0	3.0
2	.0	.0	.1	1.6	3.3	.4	.0	416	.0	5.4
1	.0	.0	.2	2.1	3.6	.1	.0	465	.0	6.1
0	.0	*	.4	6.6	5.3	.1	.0	951	.0	12.4
-1	.0	.0	.4	7.1	3.8	.1	.0	868	*	11.3
-2	*	*	1.3	11.4	2.0	.0	.0	1125	*	14.7
-3	.0	.1	1.3	8.1	1.0	.0	.0	807	*	10.5
-4	.0	.1	2.9	7.2	.6	.0	.0	824	.0	10.8
-5	.0	.2	2.7	3.9	.3	.0	.0	535	.0	7.0
-6	.0	.2	2.4	1.7	.1	.0	.0	331	.0	4.3
-7/-8	.0	.7	3.2	1.0	*	.0	.0	369	*	4.8
-9/-10	*	.7	1.2	.2	.0	.0	.0	165	.0	2.2
-11/-13	*	.3	.2	.1	.0	.0	.0	43	.0	.6
-14/-16	*	.1	.0	.0	.0	.0	.0	8	.0	.1
TOTAL	6	185	1234	4009	1869	312	31	7646	6	7640
PCT	.1	2.4	16.1	52.4	24.4	4.1	.4	100.0	.1	99.9

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

PCT FREQ OF 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	.8	.0	.0	.0	.0	1.3
1-2	.3	2.1	.1	.0	.0	.0	2.5
3-4	.0	.6	.2	.0	.0	.0	.8
5-6	.0	.1	.2	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	3.6	.5	.0	.0	.0	4.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.9	.0	.0	.0	.0	1.1
1-2	.2	1.5	*	.0	.0	.0	1.7
3-4	.1	.6	.1	.0	.0	.0	.8
5-6	.0	.0	.3	.1	*	.0	.3
7	.0	.1	*	.1	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	3.0	.5	.1	*	.0	4.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.0	.0	.0	.0	.0	1.2
1-2	.2	2.6	.9	.0	.0	.0	3.8
3-4	.2	.9	1.4	.0	.0	.0	2.6
5-6	.0	.2	.8	.2	*	.0	1.4
7	.0	*	.3	.5	.0	.0	.8
8-9	.0	.0	.1	.2	.0	.0	.3
10 11	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.1	.0	.0	.1
13-.6	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	4.9	3.7	1.1	*	.0	10.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.9	.0	.0	.0	.0	1.3
1-2	.4	2.7	.8	.0	.0	.0	3.9
3-4	.1	1.2	1.6	.1	.0	.0	2.9
5-6	.0	.2	.7	.3	.0	.0	1.2
7	.0	.1	.5	.2	*	.0	.8
8-9	.0	.0	.0	.1	.0	.0	.1
10 11	.0	.0	.1	.1	.0	.0	.2
12	.0	.0	.0	.1	.0	.0	.1
13-.6	.0	.0	.0	.1	.1	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	5.1	3.7	.9	.1	.0	10.6

JUNE

PERIOD: (OVER-ALL) 1963-1979

AREA 0007 ACAPULCO SOUTH 15.7N 98.9W

TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.3	.0	.0	.0	.0	1.9
1-2	.2	1.9	.5	.0	.0	.0	2.7
3-4	.1	.7	.4	.0	.0	.0	1.2
5-6	.0	.2	.2	.0	.0	.0	.3
7	.0	.0	.1	.1	*	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	4.1	1.2	.1	*	.0	6.4

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.0	*	.0	.0	.0	1.4
1-2	.5	3.5	.4	.0	.0	.0	4.4
3-4	.1	1.6	.6	.1	.0	.0	2.4
5-6	.0	.3	.4	.1	.0	.0	.8
7	.0	.1	.3	.0	.0	.0	.4
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	6.6	1.7	.2	.0	.0	9.4

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	3.7	.2	.0	.0	.0	4.9
1-2	.8	9.4	1.5	.0	.0	.0	11.6
3-4	.0	4.2	3.8	.1	.0	.0	8.1
5-6	*	.9	1.3	.2	.0	.0	2.4
7	.0	.2	.8	.0	.0	.0	1.0
8-9	.0	*	.1	.0	.0	.0	.1
10-11	.0	.0	*	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	18.3	7.7	.3	.0	.0	28.2

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.7	1.9	*	.0	.0	.0	2.6	
1-2	.6	6.0	1.7	.0	.0	.0	8.9	
3-4	.1	2.8	1.5	.0	.0	.0	4.4	
5-6	*	.5	.6	.1	.0	.0	1.3	
7	.0	*	*	.0	.0	.0	.1	
8-9	.0	*	*	.1	.0	.0	.1	
10-11	.0	.0	*	.0	.0	.0	*	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.3	11.6	4.0	.2	.0	.0	17.3	91.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	13.4	11.5	.2	.0	.0	.0	25.1	
1-2	3.7	30.0	5.9	.0	.0	.0	39.7	
3-4	.7	12.4	9.4	.3	.0	.0	22.8	
5-6	.1	2.4	4.4	.9	.1	.0	7.8	
7	.0	.5	2.0	.8	.1	.0	3.3	
8-9	.0	.1	.2	.3	.0	.0	.6	
10-11	.0	.0	.1	.3	.0	.0	.4	
12	.0	.0	.0	.2	.0	.0	.2	
13-16	.0	.0	.0	.1	.1	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	17.8	56.8	22.4	2.8	.2	.0	100.0	1682

PERIOD: (OVER-ALL) 1949-1979

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.5	14.8	14.4	6.0	2.2	.8	.4	.1	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	2715	3
6-7	.1	2.4	6.8	7.1	3.2	1.0	.5	.2	.1	*	*	*	*	.0	.0	.0	.0	.0	.0	1322	5
8-9	.0	1.0	2.8	3.5	2.3	1.2	.7	.2	.4	.1	.1	.0	.1	*	.0	.0	.0	.0	.0	755	6
10-11	.0	.6	1.4	1.3	1.1	.5	.4	.1	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	339	6
12-13	.0	.0	.8	.6	.2	.1	.1	*	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	126	5
>13	.0	*	.0	.4	.3	.2	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	72	7
INDET	6.5	2.1	2.0	1.0	.7	.4	.2	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	797	2
TOTAL	743	1281	1731	1224	603	247	141	47	52	13	15	3	5	1	0	0	0	0	0	6126	4
PCT	12.1	20.9	28.3	20.0	9.8	4.4	2.3	.8	.8	.2	.2	*	.1	*	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1954-1979
(OVER-ALL) 1902-1979

AREA 0007 ACAPULCO SOUTH
15.7N 98.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	3.2	1.3	2.3	.0	.0	.0	.0	6.6	2.5	7.6	.1	.0	.3	.0		83.7
NE	5.5	1.9	1.7	.0	.0	.0	.0	9.1	3.2	6.8	*	.0	.0	*		82.1
E	7.3	4.2	1.9	.0	.0	.0	.0	13.2	4.5	7.3	.1	.0	.1	.1		75.5
SE	5.8	3.0	1.4	.0	.0	.0	.0	9.8	5.4	6.4	.0	.0	.5	.0		78.3
S	3.7	2.7	1.2	.0	.0	.0	.1	7.8	3.3	5.8	.1	.0	.1	.0		83.8
SW	3.5	2.5	1.1	.0	.0	.0	*	7.3	2.8	6.1	.3	.0	.6	.0		83.1
W	2.0	.9	.7	.0	.0	.0	.0	3.6	1.5	7.1	.1	.0	.5	.1		87.6
NW	1.8	.7	.5	.0	.0	.0	.0	2.9	1.1	7.4	.1	.0	.3	.2		88.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.7	.7	.1	.0	.0	.0	.0	1.4	1.8	9.4	.0	.0	1.2	.0		86.1
TOT PCT	3.7	1.9	1.1	.0	.0	.0	*	6.7	2.8	7.2	.1	.0	.4	.1		83.3
TOT OBS:	8212															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00E03	1.9	1.6	.9	.0	.0	.0	.0	4.3	1.8	1.8	*	.0	.4	*		91.8
06E09	4.1	2.7	1.4	.0	.0	.0	*	8.0	3.3	19.3	.1	.0	.4	.1		69.8
12E15	6.1	2.3	1.6	.0	.0	.0	.0	10.0	3.7	8.9	.1	.0	.5	*		77.5
18E21	2.8	1.3	.8	.0	.0	.0	.0	4.8	2.4	.7	.1	.0	.2	*		91.8
TOT PCT	3.7	2.0	1.2	.0	.0	.0	*	6.7	2.8	7.5	.1	.0	.4	.1		83.0
TOT OBS:	8456															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.6	5.6	.9	*	.0	.0		8.1	6.7	2.7	5.4	7.1	4.8	13.8	10.5	9.2	6.5
NE	1.2	4.7	1.3	.1	*	*		7.2	7.9	3.5	3.2	6.5	8.0	10.3	14.7	7.6	9.9
E	1.4	7.6	4.7	1.0	.3	*		15.0	11.1	10.1	10.0	16.2	13.4	17.5	17.8	16.2	17.4
SE	1.5	6.6	3.8	.8	.2	*		12.9	10.7	16.1	19.5	13.8	17.5	8.3	10.0	12.5	14.1
S	1.1	3.9	1.4	.2	*	.0		6.6	8.6	10.5	7.9	4.3	12.0	3.4	4.2	5.7	6.7
SW	1.3	4.6	.8	.1	*	.0		6.9	7.4	13.0	8.9	6.1	11.3	3.6	3.2	4.8	6.3
W	2.3	11.8	3.0	.1	*	.0		17.2	7.8	27.5	19.9	17.0	15.2	10.0	11.8	14.9	15.9
NW	2.1	11.6	3.0	.1	*	.0		16.7	7.8	9.8	15.2	14.5	11.0	21.9	22.0	3.2	20.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.4							9.4	.0	6.8	10.1	12.5	6.8	11.0	5.8	8.9	3.3
TOT OBS	1903	4923	1645	204	53	4	8732		7.9	1992	158	1948	146	1873	242	2189	184
TOT PCT	21.8	56.4	18.8	2.3	.6	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.1	3.2	.2	*	.0		8.1	6.7	2.9	7.0	13.5	9.0
NE	3.4	3.4	.3	*	*		7.2	7.9	3.5	6.6	10.8	7.8
E	4.8	7.5	2.1	.5	.1		15.0	11.1	10.1	16.0	17.6	16.3
SE	4.4	6.4	1.7	.4	*		12.9	10.7	16.4	14.0	8.5	12.6
S	3.0	2.9	.5	.1	*		6.6	8.6	10.3	6.7	3.5	5.8
SW	3.6	2.9	.2	.1	.0		6.9	7.4	12.7	6.5	3.6	4.9
W	7.9	8.7	.5	*	.0		17.2	7.8	27.0	16.8	10.2	14.9
NW	7.5	8.7	.5	*	.0		16.7	7.8	10.2	14.2	22.0	20.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	9.4						9.4	.0	7.1	12.5	10.4	8.4
TOT OBS	4264	3824	525	106	13	8732		7.9	2150	2044	2115	2373
TOT PCT	48.8	43.8	6.0	1.2	.1		100.0		100.0	100.0	100.0	100.0

JULY

PERIOD: (PRIMARY) 1954-1979
(OVER-ALL) 1902-1979

AREA 0007 ACAPULCO SOUTH
15.7N 98.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00E03	7.1	11.1	57.0	21.4	2.6	.6	*	8.5	100.0	2150
06E09	12.1	11.2	54.4	18.9	2.4	.7	.1	7.9	100.0	2054
12E15	10.4	13.5	57.0	16.5	2.0	.5	.0	7.3	100.0	2115
18E21	8.4	13.5	56.8	18.3	2.4	.6	*	7.8	100.0	2373
TOT	825	1078	4923	1645	204	53	4	7.9		8732
PCT	9.4	12.3	56.4	18.8	2.3	.6	*		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.9	1.8	2.9	1.6		4.7
NE	1.1	1.4	2.7	1.7		5.3
E	1.3	2.3	6.0	5.0		5.9
SE	1.0	1.9	5.7	3.6		5.9
S	.8	1.2	3.1	1.6		5.6
SW	1.1	1.6	2.7	1.5		5.2
W	4.0	5.1	6.6	2.1		4.4
NW	4.2	4.8	6.2	1.6		4.4
VAR	.0	.0	.0	.0		.0
CALM	2.5	2.4	3.7	1.1		4.3
TOT OBS	1194	1499	2635	1325	6653	5.0
TOT PCT	17.9	22.5	39.6	19.9	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	.1	.1	.1	.4	.8	.4	.3	.1	*	.1	5.9	
NE	.1	*	.2	.6	.7	.3	.2	.1	*	*	4.8	
E	.3	.1	.4	1.6	2.1	.8	.5	*	.1	*	8.7	
SE	.1	.1	.3	1.5	1.9	.5	.3	.1	*	.1	7.4	
S	.1	.1	.1	.4	.9	.3	.1	.1	*	.0	4.4	
SW	.1	*	.2	.3	.6	.4	.2	.1	*	*	5.0	
W	.1	.1	.2	.7	1.1	.7	.3	.1	*	.1	14.4	
NW	.1	*	.1	.7	1.2	.6	.3	.1	*	*	17.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	*	.1	.3	.7	.3	.1	*	*	.1	6.1	
TOT OBS	62	35	110	439	663	291	150	36	13	27	4827	6653
TOT PCT	.9	.5	1.7	6.6	10.0	4.4	2.3	.5	.2	.4	72.6	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 >5OYD	= OR >0
= OR >6500	.6	.7	.7	.7	.7	.7	.7	.7
= OR >5000	1.1	1.2	1.3	1.3	1.3	1.3	1.3	1.3
= OR >3500	3.2	3.5	3.5	3.5	3.5	3.5	3.5	3.5
= OR >2000	6.9	7.8	7.9	7.9	7.9	7.9	7.9	7.9
= OR >1000	15.1	17.2	17.7	17.8	17.8	17.8	17.8	17.8
= OR >600	19.4	23.2	24.1	24.3	24.3	24.3	24.4	24.4
= OR >300	20.2	24.5	25.7	25.8	25.9	26.0	26.0	26.0
= OR >150	20.6	24.8	26.1	26.3	26.4	26.5	26.5	26.5
= OR > 0	20.9	25.5	26.8	27.2	27.3	27.4	27.5	27.5
TOTAL	1434	1747	1838	1859	1867	1877	1880	1881

TOTAL NUMBER OF OBS: 6946

PCT FREQ NM <5/8: 72.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
8.2	17.9	19.3	15.1	11.3	6.5	6.8	5.6	8.8	.5	7274

PERIOD: (PRIMARY) 1954-1979
(OVER-ALL) 1902-1979

AREA 0007 ACAPULCO SOUTH
15.7N 98.9W

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	*	*	*	.0	*	*	*	.0	*	.2	
	NO PCP	*	.0	.0	*	.0	.0	.0	*	.0	.0	*	
	TOT %	*	*	*	.1	.0	*	*	*	.0	*	.2	
1/2<1	PCP	.0	*	*	*	*	*	.0	.0	.0	.0	.1	
	NO PCP	.0	*	*	.0	.0	*	.0	.0	.0	.0	*	
	TOT %	.0	*	.1	*	*	*	.0	.0	.0	.0	.2	
1<2	PCP	*	.1	.1	.1	*	*	*	*	.0	.0	.4	
	NO PCP	.0	.0	*	*	*	*	*	*	.0	.0	.1	
	TOT %	*	.1	.1	.1	*	*	*	*	.0	.0	.5	
2<5	PCP	.1	.1	.3	.2	.1	.1	.1	*	.0	*	1.1	
	NO PCP	*	.1	.2	.2	.1	*	.1	.1	.0	.1	.8	
	TOT %	.1	.1	.5	.4	.2	.2	.2	.1	.0	.1	1.8	
5<10	PCP	.1	.2	.4	.4	.1	.2	.2	.2	.0	*	2.2	
	NO PCP	.4	.4	1.4	1.3	.5	.4	.9	.7	.0	.4	6.4	
	TOT %	.5	.6	2.1	1.7	.6	.6	1.1	1.0	.0	.4	8.6	
10+	PCP	.3	.2	.8	.5	.2	.2	.3	.2	.0	.1	2.7	
	NO PCP	7.2	5.9	11.3	10.0	5.5	5.9	15.8	15.6	.0	8.7	85.9	
	TOT %	7.4	6.2	12.1	10.5	5.7	6.1	16.1	15.8	.0	8.7	88.7	
	TOT OBS												8198
	TOT PCT	8.1	7.0	14.9	12.8	6.6	7.0	17.4	16.9	.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	*	*	
	4-10	.0	*	.0	.0	.0	.0	*	*	.0		.1	
	11-21	*	*	*	*	.0	*	.0	*	.0		.1	
	22+	.0	.0	*	.1	.0	*	*	.0	.0		.1	
	TOT %	*	*	.1	.1	.0	*	.1	*	.0	*	.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	*	*	*	*	.0	.0	*	.0		.1	
	11-21	.0	*	*	*	*	*	.0	.0	.0		.1	
	22+	.0	.0	*	*	*	*	.0	.0	.0		*	
	TOT %	*	*	.1	*	*	*	.0	*	.0	.0	.2	
1<2	0-3	.0	.0	.0	*	.0	.0	.0	*	.0	.0	*	
	4-10	*	*	*	*	*	*	*	*	.0		.2	
	11-21	*	*	.1	.1	*	.0	.0	*	.0		.2	
	22+	.0	.0	.1	.1	*	*	*	.0	.0		.1	
	TOT %	*	*	.2	.1	*	*	*	*	.0	.0	.5	
2<5	0-3	*	*	.0	*	*	*	.0	*	.0	.1	.2	
	4-10	*	.1	.1	.1	.1	.1	.1	.1	.0		.7	
	11-21	.1	*	.3	.2	.1	.1	*	*	.0		.8	
	22+	*	*	.2	.1	.1	.0	*	*	.0		.4	
	TOT %	.1	.2	.5	.4	.3	.2	.2	.2	.0	.1	2.2	
5<10	0-3	*	.1	.1	.1	.1	.1	.1	.1	.0	.4	1.1	
	4-10	.4	.3	.6	.7	.3	.3	.7	.7	.0		4.0	
	11-21	.1	.3	.8	.6	.2	.1	.2	.2	.0		2.5	
	22+	.0	*	.4	.3	*	.1	*	*	.0		.6	
	TOT %	.5	.6	2.0	1.7	.6	.6	1.0	1.0	.0	.4	8.5	
10+	0-3	1.5	1.1	1.2	1.3	1.0	1.2	2.2	2.1	.0	8.8	20.2	
	4-10	5.2	4.2	6.8	5.8	3.6	4.2	10.8	10.8	.0		51.4	
	11-21	.7	.9	3.5	2.9	1.1	.6	2.8	2.7	.0		15.3	
	22+	*	.1	.6	.4	.1	.1	*	.1	.0		1.3	
	TOT %	7.4	6.3	12.1	10.4	5.7	6.1	15.8	15.6	.0	8.8	88.2	
	TOT OBS												8524
	TOT PCT	8.1	7.2	14.9	12.8	6.7	6.9	17.2	16.8	.0	9.4	100.0	

PERIOD: (PRIMARY) 1954-1979
(OVER-ALL) 1902-1979

AREA 0007 ACAPULCO SCLIM
15.7N 98.9W

TABLE 1C

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00E03	.4	.6	1.0	5.1	8.0	3.8	1.9	.4	.2	.6	22.0	78.0	1818
06E09	1.4	.4	1.6	7.6	11.4	5.0	1.9	.4	.1	.6	30.4	69.6	1653
12E15	1.3	.6	2.4	7.5	10.7	4.5	3.0	.8	.2	.4	31.2	68.8	1706
18E21	.7	.4	1.4	5.5	8.4	3.8	2.0	.6	.3	.4	23.3	76.7	1937
TOT	65	35	113	453	677	301	156	39	13	34	1886	5230	7114
PCT	.9	.5	1.6	6.4	9.5	4.2	2.2	.5	.2	.5	26.5	73.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.3	.2	.4	1.2	6.6	91.4	2130
06E09	.3	.2	.5	2.7	10.8	85.5	2141
12E15	.3	.1	.8	3.1	10.1	85.5	2116
18E21	.4	.2	.5	1.6	6.6	90.7	2382
TOT	28	18	46	187	743	7747	8769
PCT	.3	.2	.5	2.1	8.5	88.3	100.0

TABLE 12

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

HOUR (GMT)	<150 <5DYD	<600 <1	<1000 <5	1000+ AND5+	NM <5/8 ANY	<5/8 5+	TOTAL OBS
00E03	.4	2.2	8.0	15.2	76.9	1746	
06E09	1.4	3.7	4.7	19.2	68.2	1587	
12E15	1.4	4.6	13.5	19.3	67.2	1645	
18E21	.7	2.7	8.7	15.6	75.7	1868	
TOT	66	222	724	1178	4944	6846	
PCT	1.0	3.2	10.6	17.2	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
95/99	.0	.0	.0	*	*	.0	.0	.0	5	.1
90/94	.0	.0	*	.3	1.7	.8	.3	.1	226	3.3
85/89	.0	.0	*	.2	5.9	18.0	4.9	.9	2045	29.9
80/84	.0	.0	.0	.1	2.5	23.5	26.8	4.0	3898	56.9
75/79	.0	.0	.0	.0	*	.6	4.0	4.6	635	9.3
70/74	.0	.0	.0	.0	.0	.0	.0	.5	33	.5
TOTAL	0	0	2	51	694	2936	2466	697	6346	100.0
PCT	.0	.0	*	.7	10.1	42.9	36.0	10.2		

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
	.3	.2	.3	.3	.2	.2	.8	.7	.0	.2
	2.2	1.5	2.7	2.6	1.9	2.5	7.3	5.9	.0	3.3
	4.9	4.5	9.2	7.6	3.6	3.5	8.3	9.4	.0	5.5
	.8	.9	2.3	1.8	.7	.6	.8	.9	.0	.4
	*	.1	.1	.1	.1	*	*	*	.0	*
	8.2	7.1	14.8	12.5	6.5	6.9	17.4	16.9	.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
00E03	95	92	90	85	80	76	70	84.5	2184
06E09	96	87	86	82	78	75	70	82.3	2175
12E15	94	86	85	82	77	74	71	81.4	2163
18E21	97	93	90	85	78	75	70	84.8	2407
TOT	97	91	89	83	78	75	70	83.3	8929

TABLE 16

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	.6	15.4	51.5	27.1	5.3	77	1756
06E09	.0	.2	3.7	37.0	46.3	12.9	81	1760
12E15	.0	.1	2.7	31.3	50.7	15.2	82	1693
18E21	.0	2.1	17.7	50.5	22.4	7.3	76	1845
TOT	0	55	707	3018	2562	712	79	7054

PERIOD: (PRIMARY) 1954-1979
(OVER-ALL) 1902-1979

AREA 0007 ACAPULCO SOUTH
16.7N 98.9W

TABLE 17

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

AIR-SEA DIF	69 or 72	73 or 76	77 or 80	81 or 84	85 or 88	89 or 92	>92	TOT	N FOG	WC FOG
14/16	.0	.0	.0	.0	.0	*	.0	1	.0	*
11/13	.0	.0	.0	*	.1	*	.1	15	.0	.2
9/10	.0	.0	*	*	*	.1	.1	24	.0	.3
7/8	.0	.0	.0	.1	.2	.5	.2	65	.0	.8
6	.0	.0	.0	.1	.3	.6	.1	74	.0	1.0
5	.0	.0	.0	.1	.5	.7	.1	105	.0	1.4
4	.0	.0	*	.4	1.5	.9	*	218	.0	2.8
3	.0	.0	*	.4	1.8	.8	.0	235	.0	3.1
2	.0	*	*	1.4	4.3	.6	*	486	*	6.3
1	.0	.0	*	2.0	4.4	.3	*	517	.0	6.7
0	.0	.0	.2	6.5	6.1	.1	.0	987	.0	12.9
-1	.0	.0	.3	7.6	4.0	.1	.0	917	*	12.0
-2	*	*	.8	11.4	2.4	*	.0	1116	*	14.5
-3	.0	.1	1.0	8.3	.9	.0	.0	789	.0	10.3
-4	.0	.0	2.7	6.8	.5	*	.0	768	*	10.0
-5	.0	.1	2.5	4.0	.3	.0	.0	528	*	6.9
-6	.0	.1	2.6	1.2	.1	.0	.0	302	*	3.9
-7/-8	.0	.5	2.7	1.0	*	.0	.0	320	.0	4.2
-9/-10	.0	.7	.8	.1	*	.0	.0	131	.0	1.7
-11/-13	*	.5	.2	*	.0	.0	.0	56	.0	.7
-14/-16	*	.1	.0	.0	.0	.0	.0	6	.0	.1
TOTAL	6	159	1068	3940	2082	361	44	7660	8	7652
PCT	.1	2.1	13.9	51.4	27.2	4.7	.6	100.0	.1	99.9

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.3	.0	.0	.0	.0	1.8
1-2	.5	3.0	.2	.0	.0	.0	3.6
3-4	.0	1.2	.4	.0	.0	.0	1.6
5-6	.0	*	.2	.0	.0	.0	.2
7	.0	.2	.1	.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	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	5.7	.9	.0	.0	.0	7.6

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.6	.0	.0	.0	.0	1.0
1-2	.2	2.5	.3	.0	.0	.0	3.0
3-4	.0	1.4	.5	.0	.0	.0	1.9
5-6	.0	.1	.3	.0	.0	.0	.4
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	4.6	1.2	.0	.0	.0	6.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.1	.0	.0	.0	.0	1.7
1-2	.6	3.1	1.0	.0	.0	.0	4.6
3-4	*	2.3	2.2	.1	.0	.0	4.7
5-6	.1	.5	1.1	.2	.0	.0	1.9
7	.0	.1	.6	.3	.0	.0	.9
8-9	.0	.0	.1	*	.1	.0	.2
10-11	.0	.0	.0	.1	.1	.0	.2
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.1	.2	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	7.0	5.1	.9	.4	.0	14.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.4	*	.0	.0	.0	1.9
1-2	.3	2.7	.7	.0	.0	.0	3.7
3-4	.1	1.7	1.9	.1	.0	.0	3.8
5-6	.0	.6	.9	.2	.1	.0	1.7
7	.0	.2	.4	.2	.1	.0	1.1
8-9	.0	.0	.2	.2	*	.0	.4
10-11	.0	.0	.0	.1	*	.0	.2
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	6.5	4.6	.8	.2	.0	13.0

PERIOD: (OVER-ALL) 1963-1979 JULY AREA 0007 ACAPULCO SOUTH 15.7N 98.9W

TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.7	*	.0	.0	.0	1.2
1-2	.3	2.0	.6	.0	.0	.0	2.9
3-4	.0	.6	.2	.0	.0	.0	.8
5-6	.0	.1	.2	.1	.0	.0	.4
7	.0	.1	.5	.2	*	.0	.8
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	3.5	1.7	.3	*	.0	6.2

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	4.8	.9	.0	.1	.0	6.7
1-2	.6	4.1	1.1	.0	.0	.0	5.8
3-4	.2	2.2	1.0	.0	.0	.0	3.4
5-6	.1	.8	.4	.0	.0	.0	1.3
7	.0	.3	.2	.0	.0	.0	.5
8-9	.0	.1	.1	.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	1.9	11.4	3.9	.1	.1	.0	17.4

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	3.0	.3	.0	.0	.0	4.1
1-2	.7	7.4	1.1	.0	.0	.0	9.3
3-4	.1	2.7	1.0	.0	.0	.0	3.7
5-6	*	.7	.8	.1	.0	.0	1.6
7	.0	.3	.1	.0	.0	.0	.3
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	1.7	14.0	3.3	.1	.0	.0	19.1

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.9	2.7	*	.0	.0	.0	3.7	
1-2	.6	7.6	1.3	.0	.0	.0	9.5	
3-4	.0	2.2	1.7	.0	.0	.0	3.9	
5-6	.0	.2	.2	.0	.0	.0	.4	
7	.0	*	.1	.0	.0	.0	.1	
8-9	.0	.1	.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	12.9	3.3	.0	.0	.0	17.7	91.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	19.4	11.7	.3	.0	.0	.0	26.5	
1-2	4.0	30.6	5.5	.0	.0	*	40.1	
3-4	.4	12.3	7.9	.2	.0	.0	20.8	
5-6	.3	2.5	3.7	.5	.1	.0	7.0	
7	.0	.8	1.8	.6	.2	.0	3.5	
8-9	.0	.2	.4	.1	.1	.0	.9	
10-11	.0	.0	.2	.1	.1	.0	.4	
12	.0	.0	.1	.2	.0	.0	.3	
13-16	.0	.0	.1	.1	.3	.0	.5	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	19.1	58.1	20.1	2.0	.7	.0	100.0	1759

PERIOD: (OVER-ALL) 1949-1979 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	6.1	16.5	19.0	5.2	2.2	.7	.3	.2	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	2765	3
6-7	.2	2.7	7.7	7.3	2.5	1.1	.6	.2	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1378	5
8-9	.1	.8	3.3	3.4	1.9	1.2	.5	.2	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	708	5
10-11	.0	.7	1.1	1.2	.9	.4	.2	.2	.2	.1	.0	.0	.0	*	.0	.0	.0	.0	.0	317	6
12-13	.0	.0	.4	.5	.3	.2	.1	*	*	*	.0	*	.0	.0	.0	.0	.0	.0	.0	126	6
>13	.0	.0	.0	.3	.2	.2	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	46	7
INDET	6.7	1.5	1.8	1.2	.4	.3	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	753	2
TOTAL	802	1348	1750	1155	525	249	117	53	53	29	3	3	0	1	0	0	0	0	0	6088	4
PCT	13.2	22.1	28.7	19.0	8.6	4.1	1.9	.9	.9	.5	*	*	.0	*	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1954-1979
(OVER-ALL) 1900-1979

TABLE 1

AREA 0007 ACAPULCO SOUTH
15.7N 98.9W

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.8	1.5	.6	.0	.0	.0	.0	5.0	1.8	9.4	.1	.0	.6	.0	83.8
NE	3.5	1.7	1.0	.0	.0	.0	.0	5.9	4.2	10.5	.2	.0	.4	.0	79.0
E	7.5	3.8	1.8	.6	.0	.0	.1	13.2	5.5	6.7	.1	.0	.1	.1	75.0
SE	6.0	3.4	1.9	.0	.0	.0	.0	11.2	4.5	5.2	.2	.0	.1	.0	79.3
S	5.0	3.2	2.4	.3	.0	.0	.4	10.5	3.6	6.5	.4	.0	.0	.0	79.6
SW	5.4	1.9	1.9	.0	.0	.0	.0	9.1	2.7	6.0	.6	.0	.5	.0	82.0
W	2.9	1.4	1.0	.0	.0	.0	*	5.3	1.8	7.1	.1	.0	.3	.0	85.5
NW	2.6	1.2	.6	.0	.0	.0	*	4.5	1.9	6.8	.2	.0	.6	.0	86.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.5	1.2	.3	.0	.0	.0	.1	2.2	1.3	6.8	.4	.0	.8	.0	85.7
TOT PCT	4.0	2.1	1.2	.0	.0	.0	.1	7.3	3.0	7.3	.2	.2	.4	*	82.2
TOT OBS:	8097														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER 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
00003	1.9	1.3	.7	.0	.0	.0	.0	4.1	1.7	.8	.1	.0	.2	.0	93.2
03609	5.7	2.5	1.4	.0	.0	.0	.1	9.5	3.3	19.5	.1	.0	.4	.1	67.8
12615	6.3	3.1	1.9	.0	.0	.0	.2	11.2	4.0	10.3	.3	.0	.2	.0	74.7
18621	2.7	1.7	.7	.0	.0	.0	.0	5.1	2.9	.7	.2	.0	.6	.0	90.6
TOT PCT	4.1	2.1	1.2	.0	.0	.0	.1	7.3	3.0	7.4	.2	.0	.3	*	82.1
TOT OBS:	8362														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	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	5.1	.8	.1	*	.0		7.6	6.7	3.1	2.2	6.4	9.6	12.8	11.6	8.5	5.8
NE	1.2	5.0	.9	*	.0	.0		7.2	7.0	3.1	4.7	6.6	6.8	11.6	9.9	7.2	8.3
E	1.6	7.3	4.2	.8	.1	.0		14.0	10.4	8.5	10.8	13.8	17.3	17.5	17.4	15.6	15.1
SE	1.4	6.7	3.7	.7	.1	.0		12.6	10.3	15.9	12.2	12.6	11.3	9.5	9.2	12.9	9.6
S	1.4	4.1	1.1	.1	*	.0		6.8	7.5	10.7	9.5	6.0	7.7	4.2	3.3	6.3	7.3
SW	1.2	4.6	1.1	.1	*	.0		6.9	7.3	12.4	8.1	6.8	6.7	3.1	5.6	4.4	10.5
W	2.4	12.6	3.6	.1	*	.0		18.9	8.0	29.7	22.0	19.6	22.6	10.3	14.6	16.1	15.3
NW	2.1	11.0	2.8	.1	*	.0		16.1	7.7	10.5	15.7	14.1	16.1	20.1	21.3	18.5	21.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.0							10.0	.0	6.2	14.9	13.8	6.8	10.9	8.0	9.9	4.0
TOT OBS	1978	4859	1561	174	20	0	8591		7.5	1994	148	1871	146	1825	224	2206	177
TOT PCT	23.0	56.5	18.2	2.0	.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	04 09	12 15	18 21
N	4.5	3.0	.2	*	.0		7.6	6.2	3.0	6.3	12.7	8.6
NE	3.9	3.2	.1	.0	.0		7.2	7.0	3.2	6.9	11.3	9.4
E	4.8	6.9	1.9	.3	*		14.0	10.4	8.6	14.1	17.5	15.6
SE	4.5	6.1	1.7	.3	*		12.6	10.3	15.6	12.5	9.5	12.6
S	3.6	2.8	.3	.1	.0		6.8	7.5	10.6	6.1	4.1	6.3
SW	3.6	3.1	.2	*	.0		6.9	7.3	12.1	6.8	3.3	5.3
W	8.6	9.6	.8	.1	.0		18.9	8.0	29.2	19.8	10.7	16.1
NW	7.4	8.2	.4	*	.0		16.1	7.7	10.9	14.3	20.2	18.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	10.0						10.0	.0	6.8	13.3	10.6	9.4
TOT OBS	4362	3679	479	69	2	8591		7.5	2142	2017	2049	2383
TOT PCT	50.8	42.8	5.6	.8	*		100.0		100.0	100.0	100.0	100.0

AUGUST

PERIOD: (PRIMARY) 1954-1979
(OVER-ALL) 1900-1979

AREA 0007 ACAPULCO SCLTH
15.7N 98.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	6.8	11.3	58.4	21.1	2.2	.2	.0	8.2	100.0	2142
06009	13.3	11.6	55.0	18.0	1.9	.1	.0	7.3	100.0	2017
12015	10.6	13.3	57.1	16.7	1.9	.4	.0	7.4	100.0	2049
18021	9.4	15.8	55.7	16.9	2.0	.2	.0	7.2	100.0	2383
TOT	855	1123	4858	1561	174	20	0	7.5		8591
PCT	10.0	13.1	56.5	18.2	2.0	.2	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.6	1.7	2.8	1.7		4.7
NE	1.2	1.5	2.9	1.5		5.1
E	1.2	2.2	6.4	4.2		5.9
SE	1.2	2.3	6.0	3.8		5.8
S	.8	1.2	3.1	1.7		5.6
SW	.9	1.6	3.1	1.3		5.2
W	3.6	5.2	7.9	2.5		4.7
NW	4.1	4.5	5.3	2.0		4.3
VAR	.0	.0	.0	.0		.0
CALM	2.8	3.0	3.2	1.0		4.1
TOT OBS	1155	1550	2679	1278	6662	5.0
TOT PCT	17.3	23.3	40.2	19.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NM >9/8) AND OCCURRENCE OF 9M <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	9M <5/8 ANY HGT	TOTAL OBS
•	•	.1	.6	.8	.3	.2	•	•	•	5.6	
•	•	.1	.6	.7	.4	.2	•	•	•	4.5	
.7	.1	.5	1.7	2.3	.8	.3	•	•	•	8.0	
.2	.1	.3	1.6	1.9	.8	.3	.1	.1	•	7.4	
.1	•	.2	.6	1.0	.4	.2	.1	•	•	4.3	
•	•	.2	.5	.8	.3	.2	•	•	•	4.5	
.1	•	.2	1.2	1.6	.7	.2	.1	.1	.1	19.5	
•	.1	.2	.9	1.4	.5	.2	•	•	•	12.6	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
•	•	•	.3	.8	.2	.1	.1	•	•	4.3	
46	26	122	541	745	294	114	27	21	18	4710	6662
.7	.4	1.8	8.1	11.2	4.4	1.7	.4	.3	.2	70.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (9M >9/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >5/16	= OR >0
= OR >6500	.5	.6	.6	.6	.6	.6	.6	.6
= OR >5000	.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0
= OR >3500	2.4	2.7	2.8	2.8	2.8	2.8	2.8	2.8
= OR >2000	6.1	6.9	7.1	7.2	7.2	7.2	7.2	7.2
= OR >1000	15.0	17.5	18.0	18.2	18.2	18.2	18.2	18.2
= OR >600	20.7	25.7	26.0	26.2	26.3	26.3	26.4	26.4
= OR >300	21.6	26.7	27.7	28.0	28.1	28.1	28.2	28.2
= OR >150	21.8	27.0	28.0	28.4	28.5	28.5	28.6	28.6
= OR > 0	22.1	27.5	28.6	29.0	29.1	29.1	29.2	29.2
TOTAL	1514	1886	1960	1990	1996	2000	2005	2006

TOTAL NUMBER OF OBS: 6885

PCT FREQ 9M <5/9: 70.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
6.2	17.4	20.5	14.8	11.0	7.0	7.1	5.9	9.3	.3	7260

AUGUST

PERIOD: (PRIMARY) 1954-1974 AREA 0007 ACAPULCO SOLIM
(OVER-ALL) 1900-1974 15.7N 98.9W

TABLE A

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	*	.1	*	.0	*	*	.0	.0	.0	.2	
	NO PCP	*	.0	*	*	.0	.0	*	*	.0	.0	.1	
	TOT %	*	*	.1	*	.0	*	*	*	.0	.0	.2	
1/2<1	PCP	.0	.0	.1	.0	*	*	*	.0	.0	.0	.1	
	NO PCP	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	.1	.0	*	*	*	.0	.0	.0	.1	
1<2	PCP	.0	*	.1	.1	*	*	*	*	.0	*	.4	
	NO PCP	.0	*	.1	*	.0	*	*	*	.0	.0	.2	
	TOT %	.0	.1	.2	.2	*	*	.1	*	.0	*	.6	
2<5	PCP	*	*	.2	.2	.1	.1	.1	.1	.0	*	.6	
	NO PCP	*	*	.1	.1	.1	*	.1	*	.0	*	.5	
	TOT %	.1	.1	.3	.3	.2	.1	.2	.1	.0	*	1.4	
5<10	PCP	.1	.2	.7	.6	.3	.3	.4	.3	.0	*	2.9	
	NO PCP	.4	.5	1.1	1.0	.5	.5	.6	.7	.0	.6	6.1	
	TOT %	.5	.7	1.8	1.6	.9	.7	1.2	1.1	.0	.6	9.0	
10+	PCP	.2	.1	.7	.5	.3	.3	.4	.3	.0	.1	2.8	
	NO PCP	6.9	6.1	10.9	10.2	5.4	5.8	17.1	14.6	.0	8.9	85.9	
	TOT %	7.1	6.2	11.6	10.6	5.6	6.0	17.6	14.9	.0	9.1	88.7	
	TOT OBS												PCP%
	TOT PCT	7.7	7.1	14.1	12.8	6.7	6	19.1	16.1	.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		.1	
	11-21	.0	*	.1	*	*	*	*	.0	.0		.1	
	22+	*	.0	*	*	.0	.0	*	.0	.0		.1	
	TOT %	*	*	.1	.1	*	*	.1	*	.0	.0	.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	*	.0	.0	*	*	.0	.0		*	
	11-21	.0	.0	*	.0	.0	.0	*	.0	.0		.1	
	22+	.0	.0	*	*	*	*	*	.0	.0		.1	
	TOT %	.0	.0	.1	*	*	*	*	.0	.0	.0	.2	
1<2	0-3	.0	.0	.0	*	*	.0	.0	.0	.0	*	*	
	4-10	*	*	.1	*	*	.0	*	*	.0		.2	
	11-21	.0	*	.1	.1	*	*	*	*	.0		.2	
	22+	.0	*	*	*	.0	.0	.0	.0	.0		.1	
	TOT %	*	.1	.2	.2	*	*	.1	*	.0	*	.6	
2<5	0-3	.0	.0	.0	*	*	*	*	*	.0	.1	.1	
	4-10	.1	*	.2	.1	.1	*	.1	.1	.0		.7	
	11-21	*	*	.2	.2	.1	.1	.1	*	.0		.7	
	22+	.0	*	.1	.1	*	*	*	*	.0		.1	
	TOT %	.1	.1	.4	.4	.2	.1	.2	.1	.0	.1	1.7	
5<10	0-3	.1	.1	.1	.1	.1	.1	.1	.1	.0	.4	1.2	
	4-10	.4	.4	.7	.6	.5	.4	.7	.6	.0		4.4	
	11-21	.1	.2	.4	.6	.2	.2	.3	.2	.0		2.6	
	22+	*	*	.1	.2	.1	*	.1	.1	.0		.7	
	TOT %	.5	.7	1.4	1.6	.9	.7	1.2	1.0	.0	.4	9.0	
10+	0-3	1.6	1.1	1.6	1.3	1.4	1.0	2.3	2.0	.0	9.3	21.6	
	4-10	4.6	4.4	6.5	5.9	3.5	4.3	12.0	10.3	.0		51.2	
	11-21	.7	.6	3.1	2.9	.6	.8	3.1	2.6	.0		14.7	
	22+	*	*	.4	.4	*	*	*	*	.0		1.6	
	TOT %	7.0	6.2	11.4	10.5	5.7	6.0	17.4	14.8	.0	9.3	88.3	
	TOT OBS												8348
	TOT PCT	7.6	7.1	14.1	12.7	6.8	6.9	19.0	16.0	.0	9.8	100.0	

AUGUST

PERIOD: (PRIMARY) 1954-1976
(OVER-ALL) 1900-1976

AREA 0003 ACAPULCO SCI>
15.7N 98.9W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,AM 24/25) AND OCCURRENCE OF VIS <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6999	7000	8000+	TOTAL	VIS <5/8 ANY HGT	TOTAL OBS
0003	.4	.3	1.0	6.6	8.5	3.8	1.4	.5	.3	.2	22.9	77.1	1877
0609	.7	.1	2.5	9.4	12.3	4.5	2.1	.3	.3	.2	32.8	67.4	1812
1215	.9	.8	2.3	10.5	12.4	4.9	1.3	.5	.2	.5	34.4	65.6	1857
1821	.5	.3	1.5	5.6	6.8	3.6	2.0	.7	.4	.2	24.0	75.6	1576
TOT	45	26	126	559	759	303	141	44	22	20	2009	5113	7122
PCT	.6	.4	1.8	7.8	10.7	4.3	1.7	.6	.3	.3	28.2	71.8	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
0003	.2	.1	.3	.8	5.4	92.8	2155
0609	.3	.2	.6	2.2	11.6	85.2	2043
1215	.3	.1	.9	2.6	12.5	83.5	2029
1821	.4	.2	.5	1.4	6.7	90.8	2390
TOT	26	14	50	146	776	7603	8617
PCT	.3	.2	.6	1.7	9.0	88.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,AM 24/25) BY HOUR

HOUR (GMT)	<150 <5/8	<600 <1	<1000 <5	1000+ AND 5+	VIS <5/8 AND 5+	TOTAL OBS
0003	.4	1.5	8.0	14.6	76.2	1409
0609	.9	3.6	14.5	19.6	65.6	1537
1215	.9	4.2	16.5	19.2	64.2	1605
1821	.5	2.6	8.8	15.6	74.6	1934
TOT	45	204	817	1263	4645	5865
PCT	.7	3.5	13.9	17.5	79.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	*	*	.1	*	*	.0	11	.2
90/94	.0	.0	*	.3	2.0	1.1	.3	.1	254	3.8
85/89	.0	.0	*	.3	6.5	15.2	5.3	.8	2188	32.1
80/84	.0	.0	.0	.1	2.3	22.5	25.4	3.8	3685	54.4
75/79	.0	.0	.0	.0	*	.7	3.4	4.4	611	9.0
70/74	.0	.0	.0	.0	.0	*	*	.2	26	.4
TOTAL	0	0	5	45	734	2546	2390	634	6754	100.0
PCT	.0	.0	.1	.7	10.9	43.8	35.4	9.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	*	*	.0	*	*	*	*	.1	.0	.0
	.4	.2	.3	.4	.2	.2	.0	.2	.0	.4
	2.0	1.8	2.7	3.3	1.9	2.6	8.5	6.0	.0	2.2
	4.5	4.4	8.7	7.2	3.6	3.2	6.7	8.1	.0	6.2
	.7	.7	2.4	1.8	.8	.5	1.2	.6	.0	.3
	*	*	*	.1	*	*	.1	.1	.0	*
TOTAL	7.7	7.2	14.1	12.8	6.6	6.6	16.2	15.6	.0	10.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
0003	97	92	90	85	80	77	72	84.8	2197
0609	95	88	86	83	78	75	71	82.5	2079
1215	95	87	85	82	77	74	71	81.5	2096
1821	98	93	90	85	79	75	69	85.0	2432
TOT	98	91	89	84	78	75	69	83.5	8794

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0003	.0	.6	15.2	52.4	25.7	6.0	76	1796
0609	.0	.2	3.4	36.5	46.2	13.5	81	1692
1215	.0	.2	2.7	33.1	48.5	15.5	82	1852
1821	.0	1.7	21.0	49.5	21.6	6.1	75	1854
TOT	0	52	767	3251	2459	655	79	6484

PERIOD: (PRIMARY) 1954-1979
(OVER-ALL) 1900-1979

AREA 0007 ACAPULCO SOUTH
15.7N 98.9W

TABLE 17

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

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	N FOG	WO FOG
14/16	.0	.0	.0	.0	.0	*	.0	2	.0	*
11/13	.0	.0	.0	.0	*	.0	.1	6	.0	.1
9/10	.0	.0	.0	*	.1	.1	.1	23	.0	.3
7/8	.0	.0	.0	.1	.2	.5	.2	47	.0	.6
6	.0	.0	.0	.1	.2	.5	*	38	.0	.6
5	.0	.0	*	.1	.4	.8	.1	108	.0	1.4
4	.0	.0	*	.4	.9	1.0	.1	181	.0	2.4
3	.0	.0	.1	.2	1.7	.9	.0	218	.0	2.9
2	.0	*	.1	1.2	3.7	.9	.0	441	.0	5.9
1	.0	.0	.1	1.1	4.5	.5	.0	484	*	6.4
0	.0	*	.2	5.1	6.7	.2	.0	921	*	12.2
-1	.0	*	.1	6.2	5.3	.1	.0	885	*	11.7
-2	.0	*	.2	11.1	3.0	.1	.0	1118	.0	14.8
-3	.0	*	1.0	7.9	1.5	*	.0	761	*	10.1
-4	*	*	1.4	7.6	.7	*	.0	748	*	9.9
-5	*	.1	2.2	4.3	.1	.0	.0	525	*	6.9
-6	.0	.1	2.3	2.1	.1	.0	.0	342	.0	4.5
-7/-8	.0	.4	3.1	1.7	.1	.0	.0	376	.0	5.0
-9/-10	.0	.6	1.2	.4	.1	.0	.0	162	*	2.1
-11/-13	*	.5	.1	*	.0	.0	.0	59	.0	.8
-14/-16	*	*	*	.0	.0	.0	.0	7	.0	.1
-17/-19	*	*	.0	.0	.0	.0	.0	1	.0	*
TOTAL	6		966		2237		40		14	7509
		192		3729		423		7523		
PCT	.1	1.9	12.8	49.6	26.5	5.6	.5	100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.7	.1	.0	.0	.0	1.3
1-2	.5	2.5	.2	.0	.0	.0	3.2
3-4	.1	.6	.3	.0	.0	.0	1.1
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	3.9	.4	.0	.0	.0	5.6

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.2	.1	.0	.0	.0	1.4
1-2	.5	3.6	.4	.0	.0	.0	4.6
3-4	.1	1.1	.4	*	.0	.0	1.6
5-6	.0	.0	.2	.1	.0	.0	.3
7	.0	*	.2	.1	.0	.0	.3
8-9	.0	.1	.2	.1	.0	.0	.4
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	5.3	1.4	.1	.0	.0	7.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.5	*	.0	.0	.0	1.0
1-2	.4	2.2	.4	.0	.0	.0	3.0
3-4	.2	2.6	.2	.0	.0	.0	3.0
5-6	.1	1.9	.4	.0	.0	.0	2.5
7	.0	.5	.2	.0	.0	.0	.8
8-9	.0	.1	.2	.0	.0	.0	.3
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	8.4	5.1	.0	.0	.0	15.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.4	*	.0	.0	.0	1.7
1-2	.3	2.6	1.2	.0	.0	.0	3.8
3-4	.1	2.6	1.6	.0	.0	.0	4.3
5-6	.0	.5	1.5	.2	.0	.0	2.3
7	.0	.1	.2	.2	.0	.0	.5
8-9	.0	.0	.2	.2	.0	.0	.4
10-11	.0	.0	.1	.2	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	7.2	4.9	.6	.0	.0	13.7

PERIOD: (OVER-ALL) 1963-1979 AUGUST AREA CODE ACAPULCO SOUTH 15.7N 98.9W

TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.1	.1	.0	.0	.0	1.7
1-2	.3	2.2	.3	.0	.0	.0	2.9
3-4	.2	.9	.4	.0	.0	.0	1.5
5-6	.1	.3	.1	*	.0	.0	.5
7	.0	.1	.1	.1	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	4.7	1.0	.1	.0	.0	6.9

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.5	.0	.0	.0	.0	.8
1-2	.3	2.3	.3	.0	.0	.0	2.9
3-4	.1	1.0	.4	.0	.0	.0	1.6
5-6	.0	.3	.2	.1	.0	.0	.6
7	.0	.0	*	*	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	*	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	4.2	.9	.1	*	.0	5.9

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	2.8	.1	.0	.0	.0	3.7
1-2	.9	6.5	1.4	.0	.0	.0	8.7
3-4	.2	2.4	1.5	.1	.0	.0	4.2
5-6	.0	.3	.7	.0	.0	.0	1.0
7	.0	.1	.4	.3	.1	.0	.9
8-9	.0	.0	.1	.1	.0	.0	.2
10-11	.0	.0	.1	.1	.1	.0	.2
12	.0	.3	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.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	12.1	4.4	.5	.1	.0	18.9

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.5	.2	.0	.0	.0	2.4
1-2	1.0	5.7	.9	.0	.0	.0	7.5
3-4	*	1.9	1.2	.0	.0	.0	3.1
5-6	.1	.2	.3	.1	.0	.0	.6
7	.0	*	.1	.1	.0	.0	.3
8-9	.0	.0	*	.1	.0	.0	.1	
10-11	.0	.0	*	.0	*	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.8	9.3	2.7	.2	*	.0	14.1

TOTAL PCT: 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	12.9	10.6	.5	.0	.0	.0	24.0	
1-2	5.0	29.8	6.1	.0	.0	.0	40.9	
3-4	.9	12.7	8.3	.3	.0	.0	22.2	
5-6	.3	2.0	4.9	.6	.0	.0	7.8	
7	.0	.4	1.6	1.0	.1	.0	3.0	
8-9	.0	.0	.6	.7	.0	.0	1.3	
10-11	.0	.0	.2	.3	.1	.0	.5	
12	.0	.0	.0	.1	.0	.0	.1	
13-16	.0	.0	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	*	*	
33-40	.0	.0	.0	.0	.0	*	*	
41-48	.0	.0	.0	.0	.0			
49-60	.0	.0	.0	.0	.0	*		
61-70	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	*	
TOT PCT	19.1	55.6	22.1	3.0	.2	.0	100.0	

PERIOD: (OVER-ALL) 1949-1979 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.8	16.9	14.1	5.6	1.4	.8	.4	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	2740	3
6-7	.2	2.5	7.7	6.8	2.8	1.6	.7	.2	.1	.1	.0	.0	*	.0	.0	.0	.0	.0	.0	1382	5
8-9	*	.9	3.0	3.2	2.0	.8	.4	.2	.2	*	.0	*	.0	.0	.0	.0	.0	.0	.0	654	5
10-11	.0	.8	1.2	1.3	.9	.4	.3		*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	301	5
12-13	.0	.0	.7	.4	.3	.1	.1	.0	*	*	.0	.0	.0	*	.0	.0	.0	.0	.0	106	6
>13	.0	.0	.0	.0	.0	.1	*	.1	*	*	.0	*	.0	.0	.0	.0	.0	.0	.0	67	7
INDET	7.1	1.4	2.1	1.5	.8	.2	.2	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	812	2
TOTAL	802	1362	1745	1171	524	244	131	38	27	12	1	2	1	2	0	0	0	0	0	6062	4
PCT	13.2	22.5	28.8	19.3	8.6	4.0	2.2	.6	.4	.2	*	*	*	*	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1882-1979

AREA 0007 ACAPULCO SOUTH
15.7N 98.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	5.8	1.3	2.1	.0	.0	.0	.0	8.9	2.6	6.4	.2	.0	.5		.0	79.7
NE	8.1	3.0	3.0	.0	.0	.0	.0	13.7	6.3	7.2	.0	.0	.1		.0	73.4
E	10.1	4.1	2.9	.0	.0	.0	.1	16.7	7.3	6.1	.0	.0	.3		.2	70.0
SE	7.2	4.3	2.1	.0	.0	.0	.0	13.6	6.3	5.2	.2	.0	*		.0	75.0
S	7.2	3.3	1.7	.0	.0	.0	.1	12.3	7.0	4.2	.2	.0	.3		.0	76.6
SW	11.5	6.1	2.5	.0	.0	.0	*	20.0	7.2	4.7	*	.0	.1		.0	68.4
W	5.6	2.7	2.0	.0	.0	.0	.1	10.4	5.3	4.4	.1	.0	.4		.1	79.7
NW	4.3	1.8	1.8	.0	.0	.0	.1	7.6	3.1	6.6	.3	.0	.4		.0	82.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	1.3	1.9	1.9	.0	.0	.0	.1	5.3	1.5	6.9	.1	.1	1.2		.0	85.1
TOT PCT	6.6	3.2	2.2	.0	.0	.0	.1	11.9	5.2	5.7	.1	*	.3		*	77.1
TOT OBS:	7967															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB 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	5.0	2.4	1.1	.0	.0	.0	.1	8.5	3.8	1.4	.1	.0	.4		.0	86.2
06E09	7.9	3.3	2.8	.0	.0	.0	.2	14.5	6.1	14.2	.2	.0	.2		.2	65.6
12E15	6.4	4.3	3.1	.0	.0	.0	.1	15.7	6.4	8.0	.2	.1	.4		.0	69.9
18E21	5.3	2.4	1.7	.0	.0	.0	.0	9.2	4.7	.4	.1	.0	.3		.0	85.3
TOT PCT	6.6	3.2	2.1	.0	.0	.0	.1	11.9	5.2	5.8	.1	*	.3		*	77.1
TOT OBS:	8205															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	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	.7	.1	*	.0		5.7	7.1	2.0	1.0	5.3	7.0	10.1	6.0	5.7	7.6
NE	1.0	3.9	1.0	.1	*	*		6.0	7.9	2.3	6.2	5.1	6.8	10.3	7.4	6.3	5.3
E	1.2	6.8	3.7	1.0	.2	*		12.9	11.0	8.0	7.1	12.7	5.1	15.5	16.2	15.7	12.4
SE	1.2	6.4	3.8	.7	.1	*		12.2	10.5	13.4	12.1	13.6	13.9	8.7	9.5	12.9	14.6
S	1.3	4.5	1.4	.3	*	*		7.5	6.5	11.9	6.4	7.6	9.2	4.4	4.8	6.5	6.5
SW	1.0	5.2	2.3	.3	.1	*		8.9	9.6	13.8	17.4	8.4	13.3	5.4	6.7	7.5	10.7
W	2.5	13.7	6.0	.9	.1	*		23.2	9.5	31.8	29.1	22.3	23.2	18.1	23.6	20.3	21.5
NW	1.7	9.6	3.3	.2	*	*		14.7	8.4	10.7	13.1	13.6	15.8	18.0	21.5	15.7	16.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.9							8.9	.0	6.2	7.6	11.5	5.7	9.5	4.2	9.4	5.3
TOT OBS	1686	4571	1887	298	41	7	8490		6.5	1917	145	1864	122	1850	236	2186	170
TOT PCT	19.9	53.8	22.2	3.5	.5	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.1	2.5	.2	.0	*		5.7	7.1	1.9	5.4	9.6	5.8
NE	3.1	2.5	.3	.1	*		6.0	7.9	2.6	5.2	10.0	6.3
E	4.2	6.4	1.8	.4	*		12.9	11.0	7.9	12.2	15.6	15.5
SE	4.1	6.2	1.5	.3	.1		12.2	10.5	13.3	13.6	8.8	13.0
S	3.6	3.3	.5	.1	*		7.5	8.5	11.5	7.7	4.4	6.5
SW	3.5	4.3	.9	.2	*		8.9	9.6	14.1	8.7	5.5	7.7
W	8.7	11.9	2.2	.2	*		23.2	9.5	31.6	22.3	18.7	20.4
NW	6.1	7.7	.8	*	*		14.7	8.4	10.8	13.7	18.4	15.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	8.9						8.9	.0	6.3	11.2	8.9	9.1
TOT OBS	3851	3810	699	112	18	8490		8.5	2042	1986	2086	2356
TOT PCT	45.4	44.9	8.2	1.3	.2		100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1882-1979

AREA 0007 ACAPULCO SOUTH
15.7N 98.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00E03	6.3	9.6	56.0	24.1	3.5	.5	*	9.0	100.0	2062
06E09	11.2	9.2	53.3	22.9	2.9	.4	.2	8.5	100.0	1986
12E15	8.9	11.6	55.7	19.7	3.9	.2	.C	8.1	100.0	2086
18E21	9.1	13.3	50.8	22.3	3.7	.7	.1	8.4	100.0	2356
TOT	752	934	4571	1887	298	41	7	8.5		8490
PCT	8.9	11.0	53.8	22.2	3.5	.5	.1		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.7	1.3	2.4	1.2		5.3
NE	.7	1.2	2.3	1.8		5.6
E	1.1	1.9	5.2	4.5		6.0
SE	1.2	2.2	4.8	3.9		5.8
S	.9	1.3	3.C	2.6		5.7
SW	.8	1.0	3.4	3.6		6.1
W	3.0	4.9	9.1	6.3		5.5
NW	2.3	3.3	5.8	3.1		5.1
VAR	.C	.C	.0	.0		.0
CALM	2.0	2.4	3.2	1.2		4.5
TOT OBS	827	1247	2517	1809	6400	5.5
TOT PCT	12.9	19.5	39.3	28.3	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	WH <5/8 ANY HGT	TOTAL OBS
N	.1	*	.1	.6	.7	.2	.1	*	.1	*	3.7	
NE	.1	*	.2	.7	.8	.3	.2	*	*	.C	3.5	
E	.3	.2	.5	1.9	2.4	.6	.2	.1	.1	.C	6.4	
SE	.2	.1	.5	1.5	1.9	.7	.3	.1	*	*	6.6	
S	.1	.1	.2	.9	1.2	.5	.1	.1	*	*	4.6	
SW	.2	*	.4	1.6	1.5	.6	.2	*	*	*	4.1	
W	.3	.2	.5	2.8	3.3	1.1	.3	.1	.1	*	10.6	
NW	.1	*	.3	1.1	1.7	.7	.3	*	*	*	10.3	
VAR	.0	.0	.0	.?	.C	.C	.0	.0	.0	.C	.C	
CALM	*	*	.1	.5	.9	.3	.2	.C	.C	*	6.9	
TOT OBS	99	49	190	738	92?	323	121	32	23	1C	3490	6400
TOT PCT	1.5	.?	3.C	11.5	14.5	5.0	1.9	.5	.4	.?	6C.?	100.C

TABLE 7

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

CEILING (FEET)	V (NM) = OR >1C	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >5OYO	= CR >0
= OR >6500	.5	.5	.5	.5	.5	.5	.5	.5
= OR >5000	.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0
= OR >3500	2.6	2.9	2.9	2.9	2.9	2.9	2.9	2.9
= OR >2000	6.7	7.9	8.0	8.0	8.0	8.0	8.0	8.0
= OR >1000	17.7	21.5	22.C	22.2	22.3	22.3	22.3	22.4
= OR >6C0	25.1	31.9	33.2	33.5	33.6	33.7	33.7	33.8
= OR >300	26.3	34.2	35.9	36.4	36.6	36.6	36.7	36.8
= OR >150	26.5	34.7	36.6	37.1	37.3	37.4	37.5	37.5
= OR > 0	26.9	35.5	37.7	38.4	38.7	38.8	38.9	39.C
TOTAL	1770	2338	24A2	2527	2547	2553	2562	2566

TOTAL NUMBER OF OBS: 6582

PCT FREQ WH <5/8: 61.C

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
3.0	12.1	18.6	15.3	11.6	8.3	9.3	7.0	14.0	1.0	7029

SEPTEMBER

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1952-1979

AREA 0007 ACAPULCO SOUTH
15.7N 98.9W

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	*	.1	*	*	*	.1	*	.0	.0	.4	
	NO PCP	.0	*	*	*	*	.0	*	.0	.0	.0	.1	
	TOT %	.0	*	.1	.1	*	*	.1	*	.0	.0	.4	
1/2<1	PCP	*	*	.1	.1	*	*	.1	*	.0	.0	.3	
	NO PCP	.0	*	.0	.0	.0	.0	*	.0	.0	.0	*	
	TOT %	*	*	.1	.1	*	*	.1	*	.0	.0	.3	
1<2	PCP	*	*	.2	*	*	.1	.1	.1	.0	.0	.7	
	NO PCP	*	*	*	*	*	*	*	*	.0	.0	.1	
	TOT %	*	.1	.3	.1	.1	.1	.1	.1	.0	.0	.8	
2<5	PCP	*	.2	.3	.3	.2	.4	.3	.1	.0	.1	2.0	
	NO PCP	*	.1	.2	.2	*	.1	.2	.1	.0	*	1.0	
	TOT %	.1	.2	.5	.5	.3	.5	.5	.2	.0	.1	3.0	
5<10	PCP	.2	.2	.7	.6	.3	.6	.6	.4	.0	.1	4.1	
	NO PCP	.4	.6	1.4	1.1	.9	1.1	1.6	.8	.0	.4	8.2	
	TOT %	.6	.9	2.1	1.7	1.2	1.7	2.4	1.2	.0	.5	12.3	
10+	PCP	.2	.2	.8	.6	.3	.5	.9	.5	.0	.3	4.4	
	NO PCP	4.7	4.5	9.3	9.2	5.8	6.0	19.0	12.6	.0	7.7	78.7	
	TOT %	5.0	4.8	10.0	9.8	6.1	6.5	19.9	13.1	.0	8.0	83.1	
	TOT OBS												7928
	TOT PCT	5.7	6.1	13.0	12.2	7.6	9.0	23.1	14.6	.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	*	
	4-10	.0	.0	*	*	*	*	*	*	.0		.1	
	11-21	.0	*	*	*	.0	*	*	*	.0		.1	
	22+	.0	*	.1	*	*	*	.1	*	.0		.2	
	TOT %	.0	*	.1	.1	.1	.1	.1	*	.0	.0	.5	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	*	*	*	.0	*	*	*	.0		.1	
	11-21	.0	*	*	*	*	.0	*	*	.0		.1	
	22+	*	*	*	*	.0	*	.1	*	.0		.1	
	TOT %	*	*	.1	*	*	*	.1	*	.0	.0	.4	
1<2	0-3	.0	.0	.0	.0	.0	.0	*	*	.0	*	*	
	4-10	*	*	.1	*	*	*	.1	*	.0		.3	
	11-21	*	*	.1		*	*	*	*	.0		.3	
	22+	*	*	.1	*	*	*	*	*	.0		.2	
	TOT %	*	.1	.2	.1	.1	.2	.1	.1	.0	*	.9	
2<5	0-3	*	.0	*	*	*	*	*	*	.0	.1	.2	
	4-10	.1	.2	.1	.2	.1	.2	.2	.2	.0		1.3	
	11-21	*	.1	.3		.1	.2	.3	.1	.0		1.4	
	22+	*	*	*	*	*	.1	.1	*	.0		.5	
	TOT %	.1	.3	.5	.3	.3	.5	.6	.3	.0	.1	3.3	
5<10	0-3	.1	.1	.1		*	.1	.2	.1	.0	.5	1.4	
	4-10	.1	.5	.1	.7	.6	.8	1.0	.7	.0		5.5	
	11-21	.2	.2		.6	.3	.6	.9	.4	.0		4.2	
	22+	*	.1	*	.2	.1	.2	.3	*	.0		1.2	
	TOT %	.6	.9	2.1	1.7	1.2	1.7	2.3	1.3	.0	.5	12.3	
10+	0-3	1.7	.9	1.1	1.0	1.1	.9	2.3	1.5	.0	8.0	17.9	
	4-10	3.2	3.2	5.9	5.5	3.8	4.1	12.3	8.6	.0		46.7	
	11-21	.5	.7	2.5	2.8	.9	1.3	4.7	2.7	.0		16.1	
	22+	*	*	.5	.4	.1	.1	.5	.1	.0		1.8	
	TOT %	4.9	4.7	10.0	9.7	5.9	6.5	19.8	12.9	.0	8.0	82.5	
	TOT OBS												8274
	TOT PCT	5.6	6.1	13.1	12.2	7.6	9.0	23.1	14.7	.0	8.7	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1902-1979

AREA 0007 ACAPULCO SOUTH
15.7N 98.9W

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	MM <5/8 ANY HGT	TOTAL OBS
00E03	1.0	.6	2.1	9.2	11.9	5.0	1.6	.6	.4	.1	32.5	67.5	1761
06E09	2.4	.9	3.3	11.3	16.0	5.2	2.0	.4	.3	.3	42.0	58.0	1527
12E15	1.7	.9	3.7	13.8	15.2	5.2	1.9	.4	.2	.1	43.2	56.8	1642
18E21	.9	.6	2.5	10.3	12.8	4.5	1.7	.5	.5	.2	34.5	65.5	1901
TOT	99	50	196	756	948	339	123	32	24	12	2579	4252	6831
PCT	1.4	.7	2.9	11.1	13.9	5.0	1.8	.5	.4	.2	37.8	62.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.6	.2	.7	2.4	9.1	87.0	2043
06E09	.6	.4	.9	4.3	15.0	78.8	2021
12E15	.5	.4	1.6	3.8	15.4	78.3	2092
18E21	.4	.5	.5	2.6	9.8	86.1	2357
TOT	43	31	77	284	1041	7037	8513
PCT	.5	.4	.9	3.3	12.2	82.7	100.0

TABLE 12

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

HOUR (GMT)	<150 <500YD	<600 <1	<1000 <5	1000+ AND5+	MM <5/8 AND 5+	TOTAL OBS
00E03	1.1	4.2	14.3	19.3	66.4	1703
06E09	2.5	7.1	19.9	24.1	56.0	1460
12E15	1.7	6.7	22.5	23.0	54.6	1581
18E21	1.0	4.6	15.6	20.2	64.3	1838
TOT	101	365	1175	1415	3992	6582
PCT	1.5	5.5	17.9	21.5	60.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	*	.1	*	.0	.0	7	.1
90/94	.0	.0	*	.2	1.4	.7	.2	*	165	2.5
85/89	.0	.0	*	.1	4.0	12.8	3.8	.7	1422	21.5
80/84	.0	.0	.0	.1	2.1	23.5	28.8	5.1	3933	59.6
75/79	.0	.0	.0	.0	.1	.7	6.0	8.8	1032	15.6
70/74	.0	.0	.0	.0	.0	.0	*	.6	40	.6
65/69	.0	.0	.0	.0	.0	.0	.0	*	1	*
TOTAL	0	0	2	30	506	2490	2565	1007	6600	100.0
PCT	.0	.0	*	.5	7.7	37.7	38.9	15.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	*	*	.0	*	*	*	.0	*
.2	.1	.3	.2	.1	.1	.9	.4	.0	.3
1.0	1.0	2.2	2.7	1.7	1.6	5.8	3.4	.0	2.2
3.7	3.7	7.6	7.2	4.4	4.6	13.7	8.9	.0	5.7
.8	1.3	2.8	2.0	1.4	2.1	3.1	1.6	.0	.7
.0	.1	.1	.1	.1	.1	.2	*	.0	*
*	*	.0	.0	.0	.0	.0	.0	.0	.0
5.7	6.1	12.9	12.2	7.6	8.6	23.7	14.3	.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
00E03	95	91	88	84	78	75	68	83.4	2089
06E09	93	87	85	82	77	75	73	81.6	2051
12E15	90	86	84	81	76	74	67	80.7	2131
18E21	96	92	90	84	77	75	68	84.0	2398
TOT	96	91	88	82	77	75	67	82.5	8669

TABLE 16

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	.6	8.9	47.0	33.4	10.1	79	1692
06E09	.0	.1	3.5	31.9	47.2	17.3	82	1652
12E15	.0	.1	2.1	26.2	49.0	22.7	84	1660
18E21	.0	1.1	15.3	45.6	27.1	10.9	78	1815
TOT	0	32	521	2586	2649	1031	81	6819

SEPTEMBER

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1962-1979

AREA 0007 ACAPULCO SOUTH
15.7N 98.9W

TABLE 17

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

AIR-SEA	65	69	73	77	81	85	89	>92	TOT	W	WO
TMP DIF	68	72	76	80	84	88	92			FOG	FOG
14/16	.0	.0	.0	.0	.0	.0	*	.0	1	.0	*
11/13	.0	.0	.0	.0	*	*	*	*	6	.0	.1
9/10	.0	.0	.0	.0	*	.1	.1	.1	22	.0	.3
7/8	.0	.0	.0	*	.1	.2	.5	.1	73	.0	1.0
6	.0	.0	.0	*	.1	.1	.3	*	36	.0	.5
5	.0	.0	.0	*	.1	.5	.5	*	85	.0	1.2
4	.0	.0	.0	.1	.4	1.0	.7	.0	161	*	2.2
3	.0	.0	.0	.0	.3	1.2	.5	*	149	.0	2.0
2	.0	.0	*	.1	1.5	2.6	.5	.0	386	*	5.0
1	.0	.0	*	.1	1.9	3.1	.1	.0	389	*	5.3
0	.0	.0	.0	.3	5.0	4.0	.1	.0	768	.0	10.4
-1	.0	.0	.0	.4	6.8	3.2	*	.0	765	*	10.4
-2	.0	.0	*	1.1	11.1	2.0	.0	.0	1046	*	14.2
-3	.0	.0	*	1.9	8.0	1.0	*	.0	802	*	10.9
-4	.0	.0	.2	3.3	8.2	.3	.0	.0	886	*	12.0
-5	.0	.0	.3	3.4	4.0	.2	.0	.0	583	.0	7.9
-6	.0	.0	.2	3.6	2.0	*	.0	.0	431	.0	5.8
-7/-8	.0	.0	1.0	4.5	1.3	.0	.0	.0	503	*	6.8
-9/-10	.0	*	1.2	1.5	.1	*	.0	.0	210	.0	2.8
-11/-13	.0	*	.5	.4	*	.0	.0	.0	68	.0	.9
-14/-16	*	*	.1	*	.0	.0	.0	.0	11	.0	.1
-17/-19	*	.0	.0	.0	.0	.0	.0	.0	1	.0	*
-20/-22	*	.0	*	.0	.0	.0	.0	.0	2	.0	*
TOTAL	3		266		3832		257		11	7359	
		5		1536		1451		20	7370		
PCT	*	.1	3.6	20.8	52.0	19.7	3.5	.3	100.0	.1	99.9

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.9	.0	.0	.0	.0	1.4
1-2	.1	1.8	.3	.0	.0	.0	2.2
3-4	.0	.9	.3	.0	.0	.0	1.1
5-6	.0	.2	.1	.0	.0	.0	.3
7	.0	*	.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	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	3.4	.6	.1	.0	.0	5.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.8	.0	.1	.0	.0	1.4
1-2	.1	2.1	.2	.0	.0	.0	2.4
3-4	.1	.8	.2	.1	.0	.0	1.2
5-6	*	.1	.4	.1	.0	.0	.5
7	.0	*	.0	.1	.0	.0	.1
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	6.9	1.0	.3	.1	.0	9.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.1	*	.0	.0	.0	1.6
1-2	.4	2.4	.0	.0	.0	.0	2.9
3-4	.1	1.4	.1	*	.0	.0	2.6
5-6	*	.3	.9	.2	.1	.0	1.6
7	.0	.2	.2	.3	.0	.0	.7
8-9	.0	.1	.1	.1	.0	.0	.4
10-11	.0	.0	.1	.2	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	5.7	2.5	.9	.1	.0	11.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.1	*	.0	.0	.0	1.5
1-2	.6	3.3	.7	.0	.0	.0	4.6
3-4	.1	1.5	1.4	.1	.0	.0	3.0
5-6	.0	.4	1.3	.4	.0	.0	2.6
7	.0	*	.5	.2	.0	.0	.7
8-9	.0	.1	*	.0	.0	.0	.1
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	6.4	2.0	.7	.1	.0	10.1

PERIOD: (OVER-ALL) 1963-1979

SEPTEMBER

TABLE 18 (CONT)

AREA 0007 ACAPULCO SOUTH
15.7N 98.9W

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.9	.0	.0	.0	.0	1.5
1-2	.8	2.1	.2	.0	.0	.0	3.1
3-4	.1	1.4	.6	.1	.0	.0	2.1
5-6	.1	.1	.3	*	.0	.0	.5
7	.0	.1	.1	*	.0	.0	.3
8-9	.0	*	.2	*	.0	.0	.3
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	1.5	4.7	1.3	.2	.0	.0	7.7

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.2	.1	.0	.0	.0	1.5
1-2	.5	2.9	.4	.1	.0	.0	3.9
3-4	.0	.8	1.1	.1	.0	.0	2.0
5-6	.0	.5	.9	.1	.0	.0	1.5
7	.0	.1	.2	.1	.0	.0	.4
8-9	.0	.1	.1	.1	.0	.0	.3
10-11	.0	.0	.1	*	.0	.0	.1
12	.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	.8	5.8	2.4	.4	.0	.0	9.8

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	2.9	.1	.0	.0	.0	3.9
1-2	1.0	7.3	1.7	.0	.0	.0	10.0
3-4	.1	3.5	2.6	.1	.0	.0	6.3
5-6	.1	.6	2.7	.3	.0	.0	3.6
7	.0	.5	1.0	.4	.0	.0	1.9
8-9	.0	.0	.2	.2	.0	.0	.4
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	.0	.1	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.1	14.8	8.3	1.1	.1	.0	46.3

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	2.0	.1	.0	.0	.1	2.4
1-2	.3	4.2	1.1	.0	.0	.0	5.6
3-4	.1	2.2	1.7	.0	.0	.0	3.9
5-6	.0	.4	.6	.1	.0	.0	1.1
7	.0	*	.4	*	.0	.0	.4
8-9	.0	.0	*	.1	.0	.0	.1
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	8.7	4.0	.2	.0	.1	13.6

HGT	TOTAL PCT
<1	
1-2	
3-4	
5-6	
7	
8-9	
10-11	
12	
13-16	
17-19	
20-22	
23-25	
26-32	
33-40	
41-48	
49-60	
61-70	
71-86	
87+	
TOT PCT	91.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	13.0	10.9	.3	.1	.0	.1	24.3	
1-2	4.2	26.1	5.4	.1	.0	.0	35.8	
3-4	.4	12.3	8.6	.4	.0	.0	21.7	
5-6	.2	3.0	6.9	1.1	.1	.0	11.2	
7	.0	1.1	2.2	1.2	.0	.0	4.5	
8-9	.0	.2	.7	.4	.1	.0	1.5	
10-11	.0	.0	.3	.3	.0	.0	.7	
12	.0	.0	.1	.1	.0	.0	.2	
13-16	.0	.0	.1	.1	.1	.0	.2	
17-19	.0	.0	.0	.0	.1	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1743
TOT PCT	17.8	53.7	24.5	3.7	.2	.1	100.0	

PERIOD: (OVER-ALL) 1949-1979

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.7	13.8	14.9	6.1	2.4	.9	.5	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	2546	3
6-7	.1	2.1	8.6	7.7	3.6	1.8	.9	.2	.4	.1	*	.0	.0	*	.0	.0	.0	.0	.0	1498	5
8-9	*	.7	3.2	3.7	2.3	1.3	.6	.3	.3	*	.1	.0	*	.0	.0	.0	.0	.0	.0	756	6
10-11	.0	.5	.8	1.4	1.0	.6	.3	.1	.2	.1	*	*	.0	.0	.0	.0	.0	.0	.0	296	6
12-13	.0	.0	.6	.6	.3	.2	.3	*	.1	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	132	6
>13	.0	.0	.0	.4	.2	.1	.1	*	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	54	8
INDET	5.1	1.2	2.0	1.1	.5	.2	.2	*	.2	*	*	.0	.0	.0	.0	.0	.0	.0	.0	436	2
TOTAL	588	1085	1784	1244	605	256	171	62	72	13	8	2	1	1	0	0	0	0	0	5912	4
PCT	9.9	18.4	30.2	21.0	10.2	4.3	2.9	1.0	1.2	.2	.1	*	*	*	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1872-1979

AREA 0007 ACAPULCO SOUTH
15.7N 98.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	1.7	.9	1.8	.0	.0	.0	.2	4.4	1.9	4.2	.0	.0	.8	.0		89.0
NE	5.9	2.3	1.1	.0	.0	.0	.0	9.3	3.9	6.0	.0	.0	.3	.2		80.6
E	8.2	2.7	3.0	.0	.0	.0	.0	13.3	4.9	4.1	.1	.0	.2	.0		77.8
SE	7.9	2.6	2.9	.0	.0	.0	.0	13.2	6.0	4.6	.1	.0	.5	.0		76.5
S	4.1	2.7	1.8	.0	.0	.0	.0	8.4	4.2	3.9	.0	.0	.0	.0		83.5
SW	4.8	1.8	1.9	.0	.0	.0	.0	8.5	3.7	4.2	.0	.0	.1	.0		84.1
W	2.8	1.1	.8	.0	.0	.0	.0	4.7	2.3	3.7	.2	.0	.3	*		89.1
NW	1.7	1.5	1.0	.0	.0	.0	.0	4.1	1.4	3.7	.3	.0	.4	.0		90.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.5	.6	.1	.0	.0	.0	.0	1.2	1.3	4.0	.0	.0	.6	.0		91.0
TOT PCT	3.7	1.6	1.9	.0	.0	.0	*	6.6	2.9	4.3	.1	.0	.3	*		86.0
TOT OBS:	7896															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00E03	2.6	.8	.7	.0	.0	.0	.0	4.1	1.8	1.4	.2	.0	.3	.1		92.3
06E09	4.8	2.2	1.5	.0	.0	.0	.0	8.4	4.3	10.5	.2	.0	.4	.1		76.8
12E15	5.2	2.4	2.6	.0	.0	.0	.1	9.9	3.1	6.5	.1	.0	.4	.0		80.7
18E21	2.3	1.4	.8	.0	.0	.0	.0	4.4	2.5	.2	.1	.0	.3	.1		92.5
TOT PCT	3.6	1.7	1.4	.0	.0	.0	*	6.6	2.9	4.4	.1	.0	.3	*		85.9
TOT OBS:	8140															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)				
WND DIR	0-3	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	4.5	.6	.0	.0	.0		6.8	6.2	2.6	2.3	5.3	5.0	12.7	7.0	7.6	5.1
NE	.9	3.5	.8	.1	*	.0		5.3	7.3	2.8	4.2	4.6	3.2	8.4	6.5	5.7	5.7
E	1.3	5.3	2.5	.6	.1	*		9.9	10.2	7.3	4.5	8.7	6.5	13.0	8.3	11.6	8.3
SE	1.3	4.9	2.2	.4	.1	.0		8.8	9.8	9.1	8.4	9.4	9.1	6.5	6.9	10.2	10.3
S	1.0	3.2	.9	.2	*	.0		5.9	7.7	8.6	9.2	6.8	5.0	3.7	2.1	4.0	5.0
SW	1.4	5.4	1.1	.1	*	.0		8.0	7.3	12.4	13.9	8.3	10.3	4.6	5.9	6.2	4.5
W	3.3	17.0	5.3	.2	*	.0		26.0	8.2	38.0	31.5	25.8	35.1	17.8	23.6	21.2	30.1
NW	2.5	12.4	3.3	.1	*	.0		18.3	7.7	12.4	17.1	17.2	17.9	21.2	30.5	20.7	23.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.9							10.9	.0	6.9	8.7	14.0	7.9	12.1	9.2	11.6	5.9
TOT OBS	2043	4795	1409	154	26	1	8432		7.3	1945	149	1033	126	1825	217	2201	136
TOT PCT	24.2	56.9	16.7	1.8	.3	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.7	2.5	*	.0	.0		6.8	6.2	2.5	5.1	12.1	7.4
NE	3.1	2.0	.3	*	*		5.3	7.3	2.9	4.5	8.2	5.7
E	3.9	4.5	1.2	.3	.1		9.9	10.2	7.1	8.5	12.5	11.4
SE	3.8	3.7	1.0	.3	*		8.8	9.8	9.0	9.4	6.5	10.2
S	3.2	2.4	.3	.1	.0		5.9	7.7	8.7	6.7	3.5	5.0
SW	4.4	3.2	.3	.1	*		8.0	7.3	12.5	8.4	4.7	6.5
W	11.2	13.5	1.2	*	*		26.0	8.2	37.5	26.4	18.4	21.9
NW	8.5	9.2	.6	*	.1		18.3	7.7	12.8	17.3	22.3	20.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	10.9						10.9	.0	7.1	13.6	11.8	11.3
TOT OBS	4482	3453	425	63	11	8432		7.3	2054	1958	2042	2377
TOT PCT	53.1	41.0	5.0	.7	.1		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
				WIND SPEED (KNOTS)						
00E03	7.1	11.7	57.5	20.8	2.3	.6	.0	6.1	100.0	2054
06E09	13.6	11.8	57.6	14.7	2.0	.3	.0	7.0	100.0	1959
12E15	11.8	14.0	56.6	16.2	1.5	*	.0	7.0	100.0	2042
18E21	11.3	15.5	55.9	15.2	1.7	.3	*	7.0	100.0	2337
TOT	917	1126	4795	1409	158	26	1	7.3		8432
PCT	10.9	13.4	56.9	16.7	1.9	.3	*		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.4	2.1	7.0	.8		3.9
NE	1.6	1.2	1.7	1.0		4.4
E	1.8	2.2	3.1	2.7		5.2
SE	1.4	1.8	3.1	2.3		5.4
S	1.0	1.5	2.0	1.4		5.1
SW	1.5	2.1	2.8	1.3		4.7
W	6.9	7.7	8.3	3.0		4.2
NW	6.3	4.8	5.3	1.4		3.8
VAR	.0	.0	.0	.0		.0
CALM	4.2	3.1	3.0	.7		3.5
TOT OBS	1775	1743	2085	965	6568	4.2
TOT PCT	27.0	26.5	31.7	14.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,AM >4/8) AND OCCURRENCE OF AM <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+	AM <5/8 ANY HGT	TOTAL OBS
N	*	*	.1	.2	.5	.2	.1	*	*	.0	5.9	
NE	*	*	.1	.4	.5	.2	*	.0	.0	*	4.1	
E	.3	.1	.3	.8	1.3	.6	.2	*	*	*	6.3	
SE	.1	.1	.2	1.0	1.0	.7	.2	.1	.1	*	5.3	
S	*	.0	.1	.6	.8	.4	.1	*	*	.0	5.9	
SW	*	.1	.2	.6	.7	.4	.2	*	.0	.0	4.6	
W	.3	*	.4	1.5	1.9	.9	.3	.1	*	*	20.6	
NW	*	*	.2	.9	1.2	.5	.2	.1	*	*	14.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	*	.1	.3	.8	.3	.1	*	*	*	5.4	
TOT OBS	60	25	100	414	572	274	89	26	10	9	4550	6568
TOT PCT	.9	.4	1.5	6.3	8.7	4.2	1.4	.4	.2	.1	76.0	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) : OR >10	: OR >5	: OR >2	: OR >1	: OR >1/2	: OR >1/4	: OR >5DYD	: OR >0
: OR >6500	.2	.3	.3	.3	.3	.3	.3	.3
: OR >5000	.5	.7	.7	.7	.7	.7	.7	.7
: OR >3500	1.7	1.9	2.0	2.0	2.0	2.0	2.0	2.0
: OR >2000	5.3	6.0	6.1	6.1	6.1	6.1	6.1	6.1
: OR >1000	12.1	14.2	14.7	14.7	14.7	14.7	14.8	14.8
: OR >600	16.2	19.8	20.7	20.9	21.0	21.0	21.0	21.0
: OR >300	17.0	21.1	22.1	22.3	22.4	22.4	22.5	22.5
: OR >150	17.2	21.4	22.5	22.7	22.8	22.8	22.9	22.9
: OR > 0	17.4	21.8	23.0	23.5	23.6	23.6	23.7	23.7
TOTAL	1171	1466	1548	1579	1590	1591	1596	1597

TOTAL NUMBER OF OBS: 6730 PCT FREQ AM <5/8: 76.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
7.1	19.2	22.7	17.2	10.5	6.3	6.1	4.1	7.1	.6	7126

PERIOD: (PRIMARY) 1953-1979
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	*	.1	*	*	*	*	.0	.0	.1	
	NO PCP	*	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
	TOT %	*	.0	*	.1	*	*	*	*	.0	.0	.2	
1/2<1	PCP	*	*	.1	*	*	*	*	*	.0	.0	.2	
	NO PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	TOT %	*	*	.1	*	*	*	*	*	.0	.0	.2	
1<2	PCP	*	*	.2	*	.0	*	*	*	.0	*	.4	
	NO PCP	.0	*	*	*	*	*	*	.0	.0	.0	.1	
	TOT %	*	.1	.2	.1	*	*	.1	*	.0	*	.5	
2<5	PCP	*	.1	.3	.2	*	.1	.1	*	.0	*	.8	
	NO PCP	*	*	.1	.1	.1	.1	.1	.1	.0	.0	.6	
	TOT %	.1	.1	.4	.3	.1	.2	.2	.1	.0	*	1.4	
5<10	PCP	.1	.2	.4	.4	.2	.3	.5	.4	.0	.1	2.5	
	NO PCP	.4	.4	.8	.6	.6	.5	1.6	1.0	.0	.4	6.1	
	TOT %	.5	.6	1.2	1.0	.6	.8	2.1	1.4	.0	.4	8.6	
10+	PCP	.2	.2	.4	.4	.2	.2	.6	.3	.0	*	2.6	
	NO PCP	6.3	4.5	7.9	7.0	4.9	6.6	22.9	16.4	.0	10.1	86.6	
	TOT %	6.4	4.7	8.3	7.4	5.1	6.9	23.5	16.7	.0	10.1	89.1	
	TOT OBS												7866
	TOT PCT	7.0	5.5	10.1	8.9	5.9	7.9	25.8	18.2	.0	10.6	100.0	

TABLE 9

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

VSBY (NM)	SPD PTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	4-10	*	.0	.0	.0	.0	.0	.0	*	.0		*	
	11-21	.0	.0	.0	*	*	*	*	*	.0		.1	
	22+	.0	.0	*	*	.0	*	*	.0	.0		*	
	TOT %	*	.0	*	.1	*	*	*	*	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	*	.0	.0	*	.0	.0	.0	.0		*	
	11-21	*	.0	*	*	.0	*	*	*	.0		.1	
	22+	.0	*	*	*	*	.0	*	*	.0		.1	
	TOT %	*	*	.1	*	*	*	*	*	.0	.0	.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	*	.0	.0	*	*	
	4-10	*	.1	.1	*	*	*	*	*	.0		.3	
	11-21	.0	*	*	.0	.0	*	*	.0	.0		*	
	22+	.0	.0	.1	*	*	*	*	.0	.0		.2	
	TOT %	*	.1	.2	.1	*	.1	.1	*	.0	*	.5	
2<5	0-3	.0	.0	*	*	*	.0	.0	.0	.0	*	*	
	4-10	.1	*	.1	*	.1	.1	.1	.1	.0		.6	
	11-21	*	*	.1	.2	*	.1	.1	.1	.0		.7	
	22+	.0	*	.1	.1	.1	*	.1	*	.0		.5	
	TOT %	.1	.1	.4	.3	.2	.2	.3	.2	.0	*	1.8	
5<10	0-3	.1	.1	.1	*	*	*	.2	.1	.0	.4	1.1	
	4-10	.3	.3	.5	.5	.3	.5	1.2	.9	.0		4.4	
	11-21	.1	.2	.5	.4	.2	.2	.6	.3	.0		2.5	
	22+	.0	*	.2	.1	*	.1	.2	*	.0		.6	
	TOT %	.5	.6	1.2	1.1	.6	.8	2.1	1.3	.0	.4	8.6	
10+	0-3	1.6	.8	1.2	1.2	1.0	1.4	3.0	2.3	.0	10.3	22.8	
	4-10	4.2	3.2	4.7	4.3	3.5	4.8	15.6	11.4	.0		51.6	
	11-21	.5	.6	1.9	1.5	.7	.7	4.6	2.8	.0		13.4	
	22+	.0	*	.3	.3	*	*	.1	.1	.0		.9	
	TOT %	6.3	4.6	8.1	7.3	5.2	6.9	23.3	16.7	.0	10.3	88.6	
	TOT OBS												6200
	TOT PCT	6.9	5.3	10.0	8.9	6.0	8.0	25.8	18.3	.0	10.8	100.0	

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TABLE 1C

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6999	6500 7999	8000+	TOTAL	MM <5/8 ANY HGT	TOTAL OBS
00E03	.7	.2	.8	4.7	6.4	3.6	1.2	.3	.2	.0	18.2	81.8	1814
04E09	1.2	.2	1.8	7.5	10.5	4.3	1.1	.2	.1	.3	27.2	72.8	1613
12E15	1.0	.4	2.4	8.0	9.5	4.3	1.4	.6	.1	.1	27.6	72.4	1658
18E21	.6	.5	.9	4.4	7.4	3.8	1.5	.3	.3	.1	19.9	80.1	1936
TOT	60	25	101	425	586	278	93	26	10	8	1612	5409	7021
PCT	.9	.4	1.4	6.1	8.3	4.0	1.3	.4	.1	.1	23.0	77.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.2	.3	.4	1.5	6.3	91.3	2080
04E09	.2	.2	.4	2.1	11.8	85.3	1989
12E15	.1	.2	.7	2.5	10.1	86.3	2040
18E21	.1	.2	.6	1.5	6.2	91.4	2340
TOT	14	19	44	158	719	7495	8449
PCT	.2	.2	.5	1.9	8.5	88.7	100.0

TABLE 12

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

HOUR (GMT)	<150 <5DYD	<600 <1	<1000 <2	1000+ AND5+	MM <5/8 ANY 5+	TOTAL OBS
00E03	.7	1.9	7.0	11.9	81.1	1742
04E09	1.2	3.5	12.1	16.6	71.3	1535
12E15	.9	4.0	13.2	15.6	71.1	1593
18E21	.7	2.4	7.4	13.3	79.3	1860
TOT	59	194	656	959	5115	6730
PCT	.9	2.9	9.7	14.2	76.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	*	.1	*	.0	.0	13	.2
90/94	.0	.0	.0	.3	1.1	.7	.2	.1	155	2.3
85/89	.0	.0	.1	.2	4.4	14.5	4.1	.6	1593	23.8
80/84	.0	.0	*	*	2.8	24.7	30.4	5.1	4250	63.4
75/79	.0	.0	.0	.0	*	.8	3.8	5.4	675	10.1
70/74	.0	.0	.0	.0	.0	.0	.0	.3	18	.3
TOTAL	0	0	5	33	563	2729	2611	763	6704	100.0
PCT	.0	.0	.1	.5	8.4	40.7	38.9	11.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	*	*	*	.0	.0	.1	.1	.0	*
	.2	.1	.2	.1	.1	.1	.6	.7	.0	.3
	1.3	1.0	1.8	1.9	1.3	1.8	7.4	4.6	.0	2.5
	4.9	3.5	6.0	5.3	3.7	5.0	15.7	11.5	.0	7.7
	.7	.8	2.1	1.3	.9	.9	1.8	1.1	.0	.5
	.0	*	.1	.1	*	*	*	*	.0	.0
	7.1	5.4	10.1	8.6	6.0	7.8	25.7	17.9	.0	11.1

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	97	91	89	84	79	76	72	83.7	2122
04E09	90	86	85	82	78	76	72	82.0	2015
12E15	88	86	8	81	77	75	72	81.1	2092
18E21	98	93		85	79	75	71	84.7	2388
TOT	98	91	8	83	78	75	71	83.0	8617

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.5	9.4	50.7	31.1	8.3	78	1725
04E09	.0	.2	3.9	33.8	49.1	13.0	82	1636
12E15	.0	.1	1.6	20.4	52.6	17.3	83	1699
18E21	.0	1.4	17.6	49.2	24.9	6.9	76	1863
TOT	0	40	581	2022	2696	778	80	6923

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TABLE 17

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

AIR-SEA TMP DIF	69 & 7-	73 76	77 80	81 84	85 88	89 92	>92	TOT	N FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.0	*	2	.0	*
11/13	.0	.0	.0	.1	.1	*	.1	19	.0	.3
9/10	.0	.0	.0	*	.1	.1	.1	28	.0	.4
7/8	.0	.0	*	.1	.3	.6	.1	71	.0	1.0
6	.0	.0	.0	.1	.2	.3	*	47	.0	.6
5	.0	.0	*	.2	.9	.7	*	138	.0	1.9
4	.0	.0	*	.4	1.4	.8	*	197	*	2.7
3	.0	.0	.1	.5	2.0	.6	.0	216	*	2.9
2	.0	.0	.1	1.4	3.0	.3	.0	362	.0	5.1
1	.0	*	.1	2.3	3.7	.1	.0	458	*	6.2
0	.0	.0	.3	7.7	4.7	.1	.0	643	*	12.7
-1	.0	*	.6	9.1	3.1	*	.0	646	*	12.8
-2	.0	*	1.0	12.3	1.4	.1	.0	1097	.0	14.5
-3	.0	*	1.7	9.1	.8	.0	.0	659	*	11.6
-4	.0	*	2.4	6.5	.3	.0	.0	484	.0	9.3
-5	.0	.2	2.6	3.7	.4	.0	.0	505	.0	6.8
-6	.0	.2	2.4	1.6	*	.0	.0	331	.0	4.2
-7/-8	.0	.6	2.9	1.0	*	.0	.0	333	.0	4.5
-9/-10	*	.5	.6	.2	.0	.0	.0	97	.0	1.3
-11/-12	*	.4	.1	.0	.0	.0	.0	36	.0	.5
-14/-16	.0	*	*	.0	.0	.0	.0	2	.0	*
-17/-19	*	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	3		1123		1655		31		10	7377
		344		4192		239		7387		
PCT	*	1.9	15.2	56.7	22.4	3.2	.4	100.0	.1	99.9

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.0	.0	.0	.0	.0	1.9
1-2	1.4	1.1	.0	.0	.0	.0	2.6
3-4	1.1	.4	.1	.0	.0	.0	1.6
5-6	.2	.1	.1	.0	.0	.0	.4
7	.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
71-84	.0	.0	.0	.0	.0	.0	.0
85+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	4.3	*	.0	.0	.0	6.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.0	.0	.0	.0	.0	1.5
1-2	1.1	2.0	.1	.0	.0	.0	2.2
3-4	.5	1.1	.0	.0	.0	.0	1.6
5-6	.1	.3	.1	.0	.0	.0	.4
7	*	.1	.2	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-84	.0	.0	.0	.0	.0	.0	.0
85+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	3.6	1.0	*	*	.0	5.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.7	.0	.0	.0	.0	3.2
1-2	3.1	2.3	.0	.0	.0	.0	3.4
3-4	1.1	1.0	.0	.0	.0	.0	2.2
5-6	.1	.1	.0	.0	.0	.0	.2
7	*	*	.0	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-84	.0	.0	.0	.0	.0	.0	.0
85+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	5.2	3.7	.0	.0	.0	10.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.1	.0	.0	.0	.0	1.5
1-2	2.2	1.1	.0	.0	.0	.0	3.3
3-4	1.4	1.0	.0	.0	.0	.0	2.5
5-6	.2	.5	.0	.0	.0	.0	.7
7	*	.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
71-84	.0	.0	.0	.0	.0	.0	.0
85+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	4.2	3.2	.0	.0	.0	8.2

PERIOD: (OVER-ALL) 1963-1979 OCTOBER AREA OCC% ACAPULCO SOUTH 15.7% 98.9%

TABLE 18 (CONT)

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

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.7	.0	.0	.0	.0	1.1
1-2	.1	1.4	.1	.0	.0	.0	2.3
3-4	.0	.4	.1	.0	.0	.0	.6
5-6	.0	.1	.2	.0	.0	.0	.3
7	.0	.1	.0	.0	.0	.0	.1
8-9	.0	.0	*	*	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.5	.7	*	.1	.0	4.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.9	3.2	.2	.0	.0	.0	5.3
1-2	1.3	10.1	1.6	.0	.0	.0	13.0
3-4	.2	4.3	1.9	.0	.0	.0	6.4
5-6	.0	.7	.9	*	.0	.0	1.6
7	.0	.0	.6	.1	.0	.0	.7
8-9	.0	.1	*	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.3	18.4	5.3	.1	.0	.0	27.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.1	2.5	.1	.0	.0	.0	3.7	
1-2	1.6	7.3	.6	.0	.0	.0	9.8	
3-4	.3	2.8	1.4	.1	.0	.0	4.5	
5-6	.0	.4	.4	.2	.0	.0	1.1	
7	.0	*	.2	.1	.0	.0	.3	
8-9	.0	.1	.1	.1	.0	.0	.2	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.6	13.1	3.4	.3	.0	.0	19.7	92.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	16.2	10.9	.4	.0	.0	.0	27.6	
1-2	6.1	31.1	4.0	.1	.0	.0	41.3	
3-4	.6	11.6	7.5	.1	.0	.0	19.8	
5-6	.1	2.1	3.4	.4	.0	.0	6.1	
7	.0	.4	2.3	.4	.0	.0	3.0	
8-9	.0	.3	.3	.2	.1	.0	.8	
10-11	.0	.0	.2	.3	.1	.0	.5	
12	.0	.0	.1	.2	.1	.0	.4	
13-16	.0	.0	.0	.2	.2	.0	.4	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.1	.0	.1	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	23.0	56.4	18.1	1.8	.6	.0	100.0	1854

PERIOD: (OVER-ALL) 1949-1979 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	6.5	17.0	14.0	5.3	1.9	.6	.2	.1	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	2715	3
6-7	.2	2.5	7.8	7.2	3.2	1.1	.7	.1	.3	*	.1	*	.0	.0	.0	.0	.0	.0	.0	1379	5
8-9	.1	1.2	2.4	3.6	2.0	.8	.3	.2	.2	.1	*	*	.0	.0	.0	.0	.0	.0	.0	642	5
10-11	.0	.6	1.0	.4	.5	.4	.2	.1	.1	*	.0	*	.0	.0	.0	.0	.0	.0	.0	226	5
12-13	.0	.0	.5	.4	.3	.1	*	*	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	86	6
>13	.0	.0	.0	.1	.2	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42	7
INDET	7.8	1.8	2.4	1.4	.4	.3	.1	*	.1	.1	*	.0	.0	*	.0	.0	.0	.0	.0	852	2
TOTAL	872	1368	1666	1138	691	344	99	36	39	15	5	3	3	1	.0	.0	.0	.0	.0	5634	4
PCT	16.7	23.1	26.1	19.2	8.3	3.3	1.7	.6	.7	.3	.2	.1	.1	*	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD (PRIMARY) 1952-1976 AREA 0007 ACAPULCO SCLTA
(OVER-ALL) 1972-1976 15.7% 98.6%

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG PLGC	NO SIG WEA
N	.6	.5	.3	.0	.0	.0	.0	1.4	.5	.6	.2	.0	.4	.0	96.5
NE	.6	.7	*	.0	.0	.0	.2	1.6	.9	2.1	.6	.0	1.4	*	93.1
E	1.7	1.1	.6	.0	.0	.0	.0	3.4	1.6	2.5	.2	.0	.8	.1	91.4
SE	3.4	1.6	.4	.0	.0	.0	.0	5.4	2.3	2.6	.0	.0	.2	.0	89.0
S	3.0	2.4	.2	.0	.0	.0	.0	5.6	1.6	2.3	.2	.0	.3	.0	90.4
SW	1.8	.5	.6	.0	.0	.0	.0	2.7	1.2	1.1	.4	.0	.4	.0	93.5
W	.8	.2	.2	.0	.0	.0	.0	1.0	1.3	1.4	.2	.0	.6	.1	95.0
NW	.4	.2	.3	.0	.0	.0	.0	.9	.7	1.6	.4	.0	.6	.0	95.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.1	.1	.0	.0	.0	.0	.2	.7	3.1	.2	.0	1.4	.0	94.5
TOT PCT	.9	.5	.3	.0	.0	.0	*	1.7	1.1	2.0	.3	.0	.7	*	94.2
TOT OBS: 7204															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG PLGC	NO SIG WEA
00E03	.7	.5	.2	.0	.0	.0	.0	1.2	.4	.2	.4	.0	.5	.1	97.2
04E09	.6	.6	.2	.0	.0	.0	.0	1.7	1.4	4.4	.5	.0	1.1	.1	90.3
10E15	1.4	.7	.6	.0	.0	.0	.0	2.4	1.7	3.3	.3	.0	.6	.0	93.5
16E21	.6	.4	*	.0	.0	.0	*	1.1	.9	.1	.1	.0	.6	.0	97.4
TOT PCT	.9	.5	.3	.0	.0	.0	*	1.6	1.1	2.0	.3	.0	.7	*	94.2
TOT OBS: 7497															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)				
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	09	15	21
N	3.2	6.9	.6	.0	.0	.0		10.7	5.5	4.5	5.4	4.7	3.7	17.4	12.7	12.3	14.5
NE	1.7	4.6	.8	.1	*	.0		7.2	6.9	3.3	8.6	5.6	6.4	10.0	10.2	4.2	11.3
E	1.7	5.3	1.6	.1	*	.0		8.8	7.9	6.1	7.0	9.2	7.3	9.3	8.7	11.2	4.6
SE	1.3	3.3	1.0	.1	.0	.0		5.7	7.2	6.8	5.9	5.2	6.9	4.3	6.1	6.7	5.5
S	1.0	2.5	.4	.1	*	.0		3.9	6.4	6.6	4.5	3.7	8.3	1.9	3.3	3.2	3.6
SW	1.2	3.1	.4	.1	*	.0		5.3	6.2	9.8	7.1	4.5	7.5	2.0	6.0	4.1	6.7
W	4.7	15.7	2.3	.1	*	.0		23.9	6.7	35.9	29.3	23.0	24.1	13.3	15.6	15.9	22.7
NW	4.1	15.5	2.0	.1	.0	.0		21.6	6.5	17.1	19.4	20.7	26.1	25.6	26.6	27.2	22.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	14.9							14.9	.0	9.8	13.5	19.4	16.7	15.8	10.8	15.9	17.6
TOT OBS	2564	6624	702	52	5	0	7775		5.6	1901	140	1698	109	1688	213	1987	141
TOT PCT	33.4	56.9	9.0	.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	7.7	3.0	.1	.0	.0		10.7	5.5	4.6	8.9	17.3	12.4
NE	7.4	2.6	.2	.1	.0		7.2	6.9	3.7	5.7	10.0	9.2
E	6.6	2.1	.5	.1	.0		8.8	7.9	6.2	8.8	9.2	10.4
SE	3.2	2.2	.1	*	.0		5.7	7.2	6.7	5.3	4.5	6.1
S	2.5	1.3	.1	*	.0		3.9	6.4	6.4	3.9	2.1	3.1
SW	3.6	1.6	.1	*	.0		5.3	6.2	9.6	4.7	2.5	4.3
W	12.4	9.2	.3	*	.0		23.9	6.7	25.4	23.1	13.5	18.2
NW	12.8	8.5	.2	*	.0		21.6	6.5	17.3	21.0	25.7	22.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	14.9						14.9	.0	10.0	14.1	15.2	15.4
TOT OBS	5137	2469	152	17	0	7775		4.8	1971	1827	1698	2128
TOT PCT	65.8	32.0	2.0	.2	.0		100.0		100.0	100.0	100.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1972-1979

AREA 0007 ACAPULCO SOUTH
15.7N 98.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00E03	10.0	16.8	61.7	10.7	.7	.1	.0	6.4	100.0	1941
06E09	19.1	16.0	55.1	9.4	.4	.0	.0	5.4	100.0	1807
12E15	15.2	18.0	58.1	7.9	.7	.1	.0	5.5	100.0	1859
18E21	15.4	22.6	52.9	8.2	.8	.1	.0	5.3	100.0	2128
TOT	1157	1437	4424	702	56	9	0	5.6		7775
PCT	14.9	18.5	56.9	9.0	.6	.1	.0		100.0	

TAB 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	6.1	2.7	1.7	.4		2.6
NE	3.7	2.0	1.0	.4		2.7
E	3.7	2.4	2.3	.9		3.5
SE	1.9	1.4	1.6	.8		4.0
S	1.2	1.0	1.2	.4		3.8
SW	2.0	1.6	1.3	.3		3.5
W	10.8	6.3	4.6	.8		3.0
NW	11.6	5.6	3.1	.6		2.6
VAR	.0	.0	.0	.0		.0
CALM	8.6	3.5	2.0	.4		2.4
TOT OBS	2965	1590	1118	282	5955	2.9
TOT PCT	49.8	26.7	18.8	4.7	100.0	

TABLE 6

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

WND DIR	COD 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	MM <5/8 ANY HGT	TOTAL OBS
N	.1	*	.1	.2	.3	.1	.1	*	.0	*	10.0	
NE	*	*	.1	.1	.3	.1	*	*	.0	.0	6.5	
E	.0	*	*	.3	.7	.2	.1	.1	.0	*	7.7	
SE	*	*	*	.4	.3	.2	.1	.1	*	*	4.6	
S	.0	*	.1	.2	.2	.1	.1	*	*	*	3.0	
SW	*	*	*	.2	.3	.1	*	*	.0	.0	4.4	
W	*	*	.1	.5	1.0	.3	.2	*	.1	*	20.2	
NW	*	*	.1	.3	.5	.2	.1	*	*	*	19.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	*	.2	.3	.3	.1	.0	*	.1	17.6	
TOT OBS	10	10	30	143	235	99	55	20	9	12	5332	5955
TOT PCT	.2	.2	.5	2.4	3.9	1.7	.9	.3	.2	.2	89.5	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >5OYD	= OR >0
= OR >6500	.3	.3	.3	.3	.3	.3	.3	.3
= OR >5000	.7	.7	.7	.7	.7	.7	.7	.7
= OR >3500	1.4	1.5	1.6	1.6	1.6	1.6	1.6	1.6
= OR >2000	2.8	3.1	3.2	3.2	3.2	3.2	3.2	3.2
= OR >1000	6.1	6.9	7.1	7.1	7.1	7.1	7.1	7.1
= OR >600	8.1	9.3	9.5	9.5	9.5	9.5	9.5	9.5
= OR >300	8.4	9.7	10.0	10.0	10.0	10.0	10.1	10.1
= OR >150	8.5	9.9	10.1	10.2	10.2	10.2	10.2	10.2
= OR > 0	8.6	10.0	10.3	10.3	10.3	10.4	10.4	10.4
TOTAL	529	614	632	634	636	637	638	638

TOTAL NUMBER OF OBS: 6149

PCT FREQ MM <5/8: 89.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
17.7	28.4	22.3	13.9	7.3	3.3	3.3	1.8	2.0	.1	6449

NOVEMBER

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1972-1979

AREA 0007 ACAPULCO SOUTH
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	*	.0	*	.0	.0	.0	.0	.0	.0	*	
	NO PCP	*	.0	.0	.0	.0	*	*	.0	.0	.0	*	
	TOT %	*	*	.0	*	.0	*	*	.0	.0	.0	.1	
1/2<1	PCP	*	*	.0	.0	.0	*	.0	.0	.0	.0	*	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	*	.0	.0	.0	*	.0	.0	.0	.0	*	
1<2	PCP	.0	*	.0	.0	*	.0	.0	.0	.0	.0	.1	
	NO PCP	*	*	.0	.0	.0	.0	.0	.0	.0	*	*	
	TOT %	*	*	.0	.0	*	.0	.0	.0	.0	*	.1	
2<5	PCP	*	*	*	*	*	*	*	*	.0	.0	.2	
	NO PCP	*	*	.1	*	*	*	.1	*	.0	.0	.2	
	TOT %	*	*	.1	*	*	*	.1	*	.0	.0	.4	
5<10	PCP	*	*	.1	.1	.1	.1	.1	.1	.0	*	.5	
	NO PCP	.5	.5	.5	.3	.2	.2	.6	1.2	.0	.4	4.3	
	TOT %	.5	.5	.5	.4	.3	.3	.7	1.2	.0	.4	4.9	
10+	PCP	.1	*	.2	.2	.1	*	.1	.1	.0	*	.9	
	NO PCP	10.2	6.7	8.0	5.0	3.5	4.9	21.4	20.4	.0	13.9	93.7	
	TOT %	10.3	6.8	8.2	5.2	3.6	4.9	21.5	20.5	.0	13.9	94.6	
	TOT OBS												7182
	TOT PCT	10.9	7.1	8.8	5.7	3.9	5.3	22.3	21.7	.0	14.3	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	4-10	.0	.0	.0	.0	.0	*	*	*	.0		*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	TOT %	*	*	.0	*	.0	*	*	*	.0	.0	.1	
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		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	.0	.0	.0	*	.0	.0	.0	.0	*	
1<2	0-3	*	.0	.0	*	.0	.0	.0	.0	.0	*	*	
	4-10	*	*	.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		.1	
	TOT %	*	*	.0	*	*	*	*	.0	.0	*	.2	
2<5	0-3	.0	.0	*	*	.0	.0	*	*	.0	*	.1	
	4-10	*	.1	.1	*	*	*	*	.1	.0		.3	
	11-21	*	*	*	*	*	*	*	.0	.0		.1	
	22+	.0	.0	*	.0	.0	*	*	.0	.0		.1	
	TOT %	.1	.1	.1	*	.1	*	.1	.1	.0	*	.6	
5<10	0-3	.1	.1	.1	*	*	*	.1	.2	.0	.4	1.2	
	4-10	.3	.2	.2	.2	.2	.2	.4	.8	.0		2.5	
	11-21	.1	.1	.2	.1	.1	.1	.1	.1	.0		.9	
	22+	.0	*	*	*	.0	*	.0	*	.0		.1	
	TOT %	.5	.5	.5	.4	.3	.3	.6	1.2	.0	.4	4.7	
10+	0-3	3.1	1.6	1.5	1.2	.9	1.2	4.1	3.9	.0	14.3	31.8	
	4-10	6.7	4.2	5.0	3.0	2.3	3.4	14.9	14.7	.0		54.1	
	11-21	.5	.6	1.4	.9	.3	.3	2.2	1.9	.0		8.1	
	22+	.0	.1	.2	.1	*	*	.1	*	.0		.5	
	TOT %	10.2	6.6	8.1	5.1	3.5	4.9	21.2	20.4	.0	14.3	94.4	
	TOT OBS												7521
	TOT PCT	10.8	7.2	8.7	5.6	3.9	5.3	22.0	21.7	.0	14.7	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1872-1979

AREA 0007 ACAPULCO SOUTH
15.7N 98.9W

TABLE 1C

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	% <5/8 ANY HGT	TOTAL OBS
00E03	.1	.1	.2	1.7	3.4	1.9	1.2	.4	.1	.1	9.2	90.8	1650
06E09	.1	.1	.6	2.7	3.5	1.7	.7	.3	.1	.1	10.0	90.0	1494
12E15	.3	.1	.8	3.1	4.5	1.5	.8	.1	.1	.4	11.7	88.3	1519
18E21	.1	.3	.4	2.0	3.7	1.2	.7	.5	.2	.2	9.4	90.6	1749
TOT	10	10	31	151	243	102	55	20	9	12	643	5777	6420
PCT	.2	.2	.5	2.4	3.8	1.6	.9	.3	.1	.2	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
00E03	.2	.0	.2	.3	3.5	95.9	1928
06E09	.0	.0	.0	.4	5.9	93.7	1832
12E15	.1	.1	.3	1.1	6.1	92.4	1898
18E21	*	*	.1	.6	3.4	95.7	2146
TOT	6	2	12	45	365	7374	7804
PCT	.1	*	.2	.6	4.7	94.5	100.0

TABLE 12

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

HOUR (GMT)	<150 <50*D	<600 <1	<1000 <5	1000+ AND5+	MM <5/8 AND 5+	TOTAL OBS
00E03	.2	.4	2.4	7.3	90.4	1586
06E09	.1	.9	4.1	6.5	89.4	1422
12E15	.3	1.3	4.8	7.5	87.8	1462
18E21	.1	.9	3.4	6.4	90.2	1679
TOT	11	54	223	425	5501	6149
PCT	.2	.9	3.6	6.9	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
95/99	.0	.0	.0	*	*	.0	.0	.0	3	.1
90/94	.0	.0	.0	.3	1.0	.5	.2	.1	113	1.9
85/89	.0	.0	.1	.5	4.3	10.2	2.6	.5	1098	18.1
80/84	.0	.0	.1	.6	6.0	34.1	26.6	3.8	4263	71.1
75/79	.0	.0	.0	*	.1	2.3	4.0	2.2	515	8.6
70/74	.0	.0	.0	.0	.0	*	.1	.1	16	.3
TOTAL	0	0	11	81	685	2416	2006	399	5998	100.0
PCT	.0	.0	.2	1.4	11.4	46.9	33.4	6.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	.0	.0	.0	*	.0	*	*	.0	.0
.2	.1	.2	.2	*	.1	.3	.5	.0	.3
1.7	1.1	1.6	.8	.6	1.1	4.6	4.4	.0	2.3
7.9	4.9	5.9	3.9	2.5	3.7	16.2	15.5	.0	10.7
1.2	1.0	1.5	.9	.5	.3	1.0	1.1	.0	1.2
*	.1	*	*	.1	*	*	.1	.0	.0
11.0	7.2	9.2	5.6	3.7	5.3	22.1	21.4	.0	14.5

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	94	90	87	83	80	77	68	83.3	1986
06E09	90	86	84	82	79	77	70	81.8	1880
12E15	92	85	84	81	77	75	70	80.9	1957
18E21	98	92	90	84	80	77	68	84.3	2190
TOT	98	90	87	82	79	76	68	82.6	8013

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	1.8	12.8	53.2	29.0	3.4	76	1582
06E09	.0	.5	6.1	46.0	40.9	6.5	79	1484
12E15	.0	.3	2.9	37.7	46.0	13.1	82	1505
18E21	.0	3.4	22.5	49.9	20.0	4.2	74	1656
TOT	0	96	708	2917	2089	417	78	6227

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1872-1979

AREA 0007 ACAPULCO SOUTH
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TABLE 17

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

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	% FOG	NO FOG
14/16	.0	.0	.0	.0	*	*	*	*	6	.0	.1
11/13	.0	.0	.0	*	.2	*	*	.1	22	.0	.3
9/10	.0	.0	.0	*	.1	.1	.1	.1	30	.0	.4
7/8	.0	.0	.0	.1	.3	.3	.5	.2	86	.0	1.3
6	.0	.0	.0	.0	.1	.3	.3	*	50	.0	.7
5	.0	.0	.0	.1	.5	.6	.6	.0	119	.0	1.8
4	.0	.0	.0	.1	.9	.9	.4	.0	156	*	2.3
3	.0	.0	.0	.1	.8	1.5	.3	.0	182	.0	2.7
2	.0	.0	*	.2	2.7	2.5	.1	*	382	.1	5.6
1	.0	.0	*	.3	2.7	3.0	*	.0	410	*	6.0
0	.0	.0	.1	.7	8.5	3.6	*	.0	878	*	12.9
-1	.0	.0	*	.8	9.2	2.4	.0	.0	845	.1	12.4
-2	.0	.0	.1	2.0	13.5	.8	.0	.0	1107	.1	16.2
-3	.0	.0	.1	2.3	9.5	.4	.0	.0	835	*	12.3
-4	.0	.0	.1	3.0	7.1	.2	.0	.0	708	*	10.4
-5	.0	.0	.1	2.8	3.6	.1	.0	.0	449	.0	6.6
-6	.0	.0	.1	2.0	1.3	*	.0	.0	229	.0	3.4
-7/-8	.0	.0	.2	2.3	.6	.0	.0	.0	216	.0	3.2
-9/-10	.0	.0	.3	.4	.1	*	.0	.0	50	.0	.7
-11/-13	.0	.1	.1	.1	*	.0	.0	.0	19	.0	.3
-14/-16	*	.0	*	*	.0	.0	.0	.0	3	.0	*
-17/-19	*	.0	.0	.0	0	.0	.0	.0	1	.0	*
TOTAL	2		72		4199		172			22	6766
		5		1175		1139		24	6788		
PCT	*	.1	1.1	17.3	61.9	16.8	2.5	.4	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.5	3.1	.1	.0	.0	.0	4.6
1-2	.*	4.2	.2	.0	.0	.0	5.2
3-4	*	1.0	.2	.0	.0	.0	1.2
5-6	.0	.3	.1	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.3	8.5	.5	.0	.0	.0	11.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	1.8	.1	.0	.0	.0	2.9
1-2	.9	2.3	.1	.0	.0	.0	3.3
3-4	.3	.6	.3	.0	.0	.0	1.3
5-6	.0	.4	.2	.0	.0	.0	.7
7	.0	.0	.0	*	.0	.0	*
8-9	.0	.0	.0	*	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.3	5.2	.7	*	.0	.0	8.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	1.4	.1	.0	.0	.0	2.5
1-2	.2	2.8	.3	.0	.0	.0	3.3
3-4	.2	.4	.8	.0	.0	.0	1.4
5-6	.0	.3	.3	.1	.0	.0	.7
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	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	5.0	1.6	.2	.0	.0	8.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.8	.0	.0	.0	.0	1.1
1-2	.3	1.7	.2	.0	.0	.0	2.3
3-4	*	.5	.3	.0	.0	.0	.8
5-6	.0	.1	.2	.0	.0	.0	.3
7	.0	.1	.0	.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	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	3.2	.7	.0	.0	.0	4.7

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PERIOD: (OVER-ALL) 1963-1979 AREA CODE ACAPULCO MEXICO 15.7N 98.9W

TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.7	.0	.0	.0	.0	1.0
1-2	.2	1.1	.1	.0	.0	.0	1.5
3-4	.1	.5	.2	.0	.0	.0	.8
5-6	.0	.2	.1	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	2.5	.4	.0	.0	.0	3.6

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	.8	*	.0	.0	.0	1.6
1-2	.6	1.9	.3	.0	.0	.0	2.7
3-4	.0	.5	.2	.0	.0	.0	.7
5-6	.0	.1	.1	*	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	3.3	.5	*	.0	.0	5.3

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.5	4.4	.1	.0	.0	.0	7.0
1-2	1.4	9.6	.9	.0	.0	.0	11.9
3-4	.2	2.9	.7	.0	.0	.0	3.9
5-6	.0	.7	.2	.1	.0	.0	1.0
7	.0	.1	.0	.0	.0	.0	.1
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.1	17.7	2.2	.1	.0	.0	24.2

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.6	3.5	.1	.0	.0	.0	5.2
1-2	1.8	9.2	1.0	.0	.0	.0	12.0
3-4	.2	2.5	.4	.0	.0	.0	3.1
5-6	.0	.5	.2	.0	.0	.0	.8
7	.0	.1	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.7	15.9	1.7	.0	.0	.0	21.3

HGT	TOTAL PCT
<1	
1-2	
3-4	
5-6	
7	
8-9	
10-11	
12	
13-16	
17-19	
20-22	
23-25	
26-32	
33-40	
41-48	
49-60	
61-70	
71-86	
87+	
TOT PCT	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	23.3	16.2	.4	.0	.0	.0	39.9	
1-2	7.1	32.0	3.0	.0	.0	.0	42.1	
3-4	1.2	8.8	3.0	.0	.0	.0	13.0	
5-6	.0	2.5	1.4	.2	.0	.0	4.1	
7	.0	.2	.1	.1	.0	.0	.5	
8-9	.0	.0	.2	.1	.0	.0	.3	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.1	.0	.0	.0	.1	
13-16	.0	.0	.1	.0	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	31.6	59.9	8.1	.3	.0	.0	100.0	1620

PERIOD: (OVER-ALL) 1949-1979

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	PEAK HGT
<6	10.1	22.8	12.6	3.9	1.1	.5	*	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	2695	2
6-7	.3	3.2	6.3	4.5	1.9	.7	.4	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	913	4
8-9	.1	1.4	2.5	1.5	.9	.4	.2	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	378	5
10-11	.0	1.2	.9	.7	.3	.2	*	.1	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	181	6
12-13	.0	.0	.8	.4	.2	.1	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	77	9
>13	.0	.0	.0	.3	.2	*	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	7
INDET	12.5	2.2	2.4	.9	.2	*	.1	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	966	1
TOTAL	1207	1617	1331	640	248	99	41	33	19	6	2	0	0	0	0	0	0	0	0	5243	1
PCT	23.0	30.8	25.4	12.2	4.7	1.9	.8	.6	.4	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD (PRIMARY) 1952-1979
(OVER-ALL) 1861-1979

AREA 0007 ACAPULCO SOUTH
15.7N 98.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNDS	NO SIG WEA
N	.2	.0	.1	.0	.0	.0	.0	.2	.0	1.4	.3	0	1.1	.1		96.8
NE	.0	.3	.0	.0	.0	.0	.0	.3	.2	.7	.9	.0	.3	.0		97.7
E	.2	.2	.0	.0	.0	.0	.0	.3	.7	.4	.5	.0	.3	.1		97.7
SE	.0	.6	.3	.0	.0	.0	.0	.9	.5	.6	.3	.0	.1	.1		97.5
S	1.2	.0	.6	.0	.0	.0	.0	1.2	.3	.8	.0	.0	.0	.0		97.8
SW	.4	.0	.3	.0	.0	.0	.0	.4	.4	.4	1.3	.0	1.3	.0		96.4
W	.1	.2	.1	.0	.0	.0	.0	.4	.3	.5	*	.0	.7	.0		98.1
NW	.1	.3	.1	.0	.0	.0	.0	.5	.3	.8	.1	.0	.5	.0		97.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.1	.2	.1	.0	.0	.0	.1	.5	.3	.6	.1	.0	2.0	.1		96.4
TOT PCT	.2	.2	.1	.0	.0	.0	*	.4	.3	.7	.3	.0	.8	*		97.4
TOT OBS:	6579															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE							OTHER WEATHER 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 SNDS	NO SIG WEA
00E03	.2	.3	.1	.0	.0	.0	.0	.5	.1	.0	.1	.0	.6	.0		98.7
06E09	.1	.4	.1	.0	.0	.0	.0	.7	.2	1.5	.5	.0	1.2	.0		95.9
12E15	.3	.1	.1	.0	.0	.0	.1	.5	.6	1.7	.5	.0	.7	.0		96.0
18E21	.1	.1	.1	.0	.0	.0	.0	.2	.3	.0	.2	.0	.6	.2		98.5
TOT PCT	.2	.2	.1	.0	.0	.0	*	.5	.3	.8	.3	.0	.8	*		97.4
TOT OBS:	6842															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	3.3	7.0	.6	*	*	.0		10.9	5.6	4.3	6.4	7.4	6.8	17.1	15.6	14.2	17.6
NE	2.2	5.7	1.1	.2	.1	.0		9.3	7.1	5.0	8.6	7.3	6.8	11.8	16.3	12.0	8.5
E	2.0	5.9	1.6	.1	.0	.0		9.6	7.4	6.8	5.7	8.9	3.7	10.2	8.8	12.9	8.3
SE	1.2	2.9	.6	.0	.0	.0		4.8	6.2	5.6	5.7	4.4	7.4	3.5	3.1	5.6	3.5
S	1.2	2.4	.2	.0	.0	.0		3.8	5.4	7.3	1.9	3.9	6.8	1.7	1.1	2.5	6.3
SW	1.6	3.2	.2	*	.0	.0		5.0	5.5	10.9	6.0	3.6	9.5	1.9	4.9	3.4	3.9
W	3.7	14.1	2.2	*	.0	.0		20.1	6.6	35.7	26.4	22.5	24.2	10.7	17.0	12.0	20.2
NW	4.0	13.5	1.8	*	.0	.0		19.2	6.3	13.4	18.3	21.4	20.0	22.5	18.6	19.5	24.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	17.2							17.2	.0	10.9	21.0	20.6	14.7	20.6	14.5	17.8	7.0
TOT OBS	2576	3864	595	32	6	0	7074		5.3	1614	105	1560	95	1527	179	1879	115
TOT PCT	36.4	54.6	8.4	.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	7.9	2.9	.1	*	*		10.9	5.6	4.5	7.3	16.9	14.4
NE	5.7	3.0	.5	.1	*		9.3	7.1	5.2	7.3	12.3	11.8
E	5.2	3.9	.5	*	.0		9.6	7.4	6.8	8.6	10.1	12.6
SE	3.1	1.7	.1	.0	.0		4.8	6.2	5.6	4.6	3.4	5.5
S	2.7	1.1	*	.0	.0		3.8	5.4	7.0	4.1	1.7	2.7
SW	3.5	1.4	*	.0	.0		5.0	5.5	10.6	3.9	2.2	3.4
W	11.9	8.0	.1	*	.0		20.1	6.6	35.2	22.6	11.4	12.5
NW	12.0	7.0	.2	.0	.0		19.2	6.3	13.7	21.3	22.1	19.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	17.2						17.2	.0	11.5	20.2	19.9	17.2
TOT OBS	4859	2053	107	12	3	7074		5.3	1715	1655	1706	1994
TOT PCT	69.3	29.0	1.5	.2	*		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1861-1979

AREA 0007 ACAPULCO SOUTH
15.7N 98.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00E03	11.5	16.9	60.4	10.4	.6	.1	.0	6.1	100.0	1719
06E09	20.2	17.8	52.5	9.0	.4	.1	.0	5.1	100.0	1655
12E15	19.9	18.6	55.1	5.9	.4	.1	.0	4.9	100.0	1766
18E21	17.2	22.9	51.0	8.7	.5	.1	.0	5.1	100.0	1994
TOT	1216	1360	3864	595	33	6	0	5.1		7074
PCT	17.2	19.2	54.6	8.4	.5	.1	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	6.8	2.3	1.2	.4		2.2
NE	5.2	1.9	1.4	.4		2.5
E	5.0	2.1	2.2	.6		3.0
SE	2.4	1.4	1.1	.2		2.9
S	2.1	1.1	.6	.2		2.7
SW	2.6	1.2	.9	.4		2.8
W	12.8	4.7	2.5	.8		2.3
NW	11.3	4.2	2.5	.6		2.3
VAR	.0	.0	.0	.0		.0
CALM	10.9	3.3	2.3	.5		2.1
TOT OBS	3170	1190	786	216	5362	2.4
TOT PCT	59.1	22.2	14.7	4.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NM >H/B) AND OCCURRENCE OF NM <S/B BY WIND DIRECTION

WND DIR	CCO 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <S/B ANY HGT	TOTAL OBS
N	*	*	*	.1	.3	.1	.1	*	*	.1	15.1	
NE	*	.0	.1	.1	.2	.2	.1	*	*	.1	14.1	
E	*	.0	*	.3	.4	.3	.2	.1	*	*	14.4	
SE	.0	.0	*	.1	.3	.1	.1	*	*	*	14.4	
S	.0	*	.0	.1	.1	.1	*	.0	*	.0	13.7	
SW	.1	.0	*	.1	.1	.1	*	.0	.0	.0	14.6	
W	*	.0	.1	.1	.4	.2	.3	*	.0	.0	19.5	
NW	*	.0	*	.2	.5	.2	.2	*	.1	*	17.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	.0	.0	.0	.3	.3	.2	.1	.1	*	.1	15.9	
TOT OBS	13	2	13	83	141	74	54	14	12	11	4945	5362
TOT PCT	.2	*	.2	1.5	2.6	1.4	1.0	.3	.2	.2	92.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NM >H/B) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >5OYD	= OR >0
= OR >6500	.5	.5	.5	.5	.5	.5	.5	.5
= OR >5000	.7	.7	.7	.7	.7	.7	.7	.7
= OR >3500	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7
= OR >2000	2.8	3.0	3.0	3.0	3.0	3.0	3.0	3.0
= OR >1000	5.1	5.5	5.6	5.6	5.6	5.6	5.6	5.6
= OR >600	6.4	7.1	7.1	7.1	7.1	7.1	7.1	7.1
= OR >300	6.6	7.3	7.3	7.3	7.4	7.4	7.4	7.4
= OR >150	6.6	7.3	7.4	7.4	7.4	7.4	7.4	7.4
= OR > 0	6.8	7.5	7.6	7.6	7.6	7.6	7.6	7.6
TOTAL	377	418	420	420	422	423	423	425

TOTAL NUMBER OF OBS: 5557 PCT FREQ NM <S/B: 92.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
29.0	27.5	18.1	11.1	6.2	2.3	2.2	1.4	1.6	.1	5079

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1961-1979

AREA 0007 ACAPULCO SOUTH
15.7N 98.9W

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
	NO PCP	*	*	.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	.0	*	*	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	*	.0	.0	.0	*	*	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
2<5	PCP	.0	.0	*	*	.0	.0	.0	.0	.0	*	*	
	NO PCP	*	*	*	*	.0	*	*	.0	.0	.1	.2	
	TOT %	*	*	*	*	.0	*	*	.0	.0	.1	.2	
5<10	PCP	*	.0	.0	*	*	*	*	*	.0	.0	.1	
	NO PCP	.4	.6	.6	.3	.1	.2	.5	.6	.0	.5	3.8	
	TOT %	.4	.6	.6	.4	.2	.2	.6	.6	.0	.5	3.9	
10+	PCP	*	*	*	*	*	.0	*	*	.0	*	.2	
	NO PCP	10.4	8.0	9.4	4.5	3.7	4.9	19.5	18.5	.0	16.1	95.0	
	TOT %	10.4	8.0	9.4	4.5	3.7	4.9	19.5	18.5	.0	16.1	95.0	
TOT OBS													6557
TOT PCT		10.8	9.2	10.0	4.9	3.9	5.1	20.1	19.2	.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	*	*	
	4-10	*	.0	.0	.0	.0	.1	*	*	.0		.1	
	11-21	*	*	.0	.0	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	.0	.0	.0	.1	*	*	.0	*	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	.0	.0	.0	.0	.0	.0	*	.0	.0		*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	*	.0	.0	*	*	
1<2	0-3	.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	*	*	
2<5	0-3	*	.0	.0	*	.0	*	.0	.0	.0	.1	.1	
	4-10	*	*	*	*	*	*	*	*	.0		.1	
	11-21	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	22+	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	TOT %	*	*	*	*	*	*	*	*	.0	.1	.3	
5<10	0-3	.2	.3	.2	.1	*	.1	.1	.2	.0	.5	1.7	
	4-10	.2	.2	.2	.2	.1	*	.3	.3	.0		1.6	
	11-21	*	*	.1	.1	*	*	.1	.1	.0		.5	
	22+	.0	*	*	.0	.0	.0	*	.0	.0		.1	
	TOT %	.4	.6	.5	.3	.2	.2	.5	.6	.0	.5	3.8	
10+	0-3	3.1	1.9	1.8	1.2	1.2	1.4	3.6	3.7	.0	16.5	34.3	
	4-10	6.8	5.4	5.8	2.7	2.3	3.1	13.8	13.1	.0		53.0	
	11-21	.5	1.0	1.5	.5	.2	.2	2.2	1.7	.0		7.9	
	22+	.1	.2	.1	.0	.0	*	*	*	.0		.5	
	TOT %	10.4	8.6	9.1	4.4	3.7	4.8	19.6	18.5	.3	16.5	95.7	
TOT OBS													6953
TOT PCT		10.8	9.2	9.7	4.8	3.9	5.0	20.2	19.2	.0	17.1	100.0	

DECEMBER

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1861-1979

AREA 0007 ACAPULCO SCLTH
15.7N 98.9W

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	MM <5/8 ANY HGT	TOTAL OBS
00E03	.1	.1	.1	.7	2.6	1.6	1.2	.0	.3	.1	6.7	92.3	1467
06E09	.3	.1	.2	2.0	2.2	1.1	.7	.0	.2	.3	7.2	92.*	1398
12E15	.*	.0	.*	1.7	2.*	1.3	.7	.1	.1	.3	7.5	92.5	1382
18E21	.1	.0	.2	1.5	2.5	1.1	1.1	.7	.2	.2	7.8	92.2	1609
TOT	13	2	14	85	143	76	55	14	13	13	428	5429	5856
PCT	.2	*	.2	1.5	2.*	1.3	.9	.2	.2	.2	7.3	92.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.0	.1	.0	.2	3.0	96.7	1714
06E09	.2	.0	.1	.5	4.9	94.3	1699
12E15	.2	.1	.1	.2	5.6	93.8	1721
18E21	.3	.0	.0	.3	2.3	97.1	1988
TOT	12	2	2	23	279	6805	7122
PCT	.2	*	*	.3	3.9	95.5	100.0

TABLE 12

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

HOUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND5+	MM <5/8 AND 5+	TOTAL OBS
00E03	.1	.3	1.1	5.9	93.0	1404
06E09	.3	.6	3.0	4.6	92.4	1336
12E15	.5	.9	2.7	5.2	92.1	1299
18E21	.1	.4	2.2	6.2	91.5	1521
TOT	13	30	124	308	5125	5557
PCT	.2	.5	2.2	5.5	92.2	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	2	*
90/94	.0	.0	*	.2	.4	*	*	.0	38	.7
85/89	.0	*	*	.5	3.7	4.2	1.4	.3	566	10.3
80/84	.0	.0	.2	.P	11.4	35.4	18.3	3.4	3799	69.4
75/79	.0	.0	.0	.1	.7	6.4	8.7	3.0	1035	18.9
70/74	.0	.0	.0	.0	*	.1	.2	.3	34	.6
65/69	.0	.0	.0	.0	.0	*	*	.0	2	*
TOTAL	0	2	17	90	883	2532	1564	384	5476	100.0
PCT	.0	*	.3	1.6	16.1	46.2	28.6	7.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	*	.0	.0	*
.2	.1	.1	*	*	*	.1	.2	.0	*
1.3	.7	1.0	.8	.4	.6	2.0	1.9	.0	1.6
6.6	5.7	6.5	3.3	3.1	3.7	15.3	13.0	.0	12.2
2.7	2.3	2.2	.9	.6	.5	2.8	3.7	.0	3.3
.1	.1	.1	*	*	.1	.1	*	.0	.1
.0	.0	.0	.0	.0	.0	.0	*	.0	*
10.8	9.0	9.8	5.0	4.0	4.9	20.3	18.8	.0	17.3

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	94	88	86	82	79	76	69	82.2	1756
06E09	96	85	83	81	77	74	65	80.7	1731
12E15	90	84	83	80	76	73	68	79.7	1754
18E21	96	90	88	82	79	76	65	82.9	2054
TOT	96	89	86	81	77	74	65	81.4	7295

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	1.8	22.5	50.2	23.7	3.8	75	1407
06E09	.0	.8	7.7	47.9	34.9	8.7	79	1408
12E15	.0	.7	6.0	41.8	39.1	12.5	81	1374
18E21	.0	4.5	26.4	45.1	20.4	3.6	74	1517
TOT	0	113	907	2638	1645	403	77	5706

PERIOD: (PRIMARY) 1952-1976
(OVER-ALL) 1961-1976

AREA 0007 ACAPULCO SOUTH
15.7N 98.9W

TABLE 17

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

AIR-SEA IMP DIF	65 64	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	% FOG	NO FOG
17/19	.0	.0	.0	.0	*	.0	*	.0	2	.0	*
14/16	.0	.0	.0	.0	*	.1	*	.0	7	.0	.1
11/13	.0	.0	.0	.1	.1	.1	*	*	23	.0	.4
9/10	.0	.0	.0	*	.3	.1	.1	*	44	*	.7
7/8	.0	.0	.0	.1	.5	.3	.4	.0	72	.0	1.2
6	.0	.0	*	.2	.2	.3	.1	*	51	.0	.8
5	.0	.0	*	.2	.6	.5	.2	.0	98	.0	1.6
4	.0	.0	*	.3	1.0	1.1	.1	.0	154	*	2.5
3	.0	*	.0	.2	.9	1.4	.1	.0	161	.0	2.6
2	.0	*	.1	.4	3.3	1.8	*	.0	352	*	5.7
1	.0	.0	*	.6	3.8	1.5	.0	.0	367	*	5.9
C	.0	*	*	2.2	9.1	1.4	.0	*	791	*	12.8
-1	.0	*	.1	2.3	8.6	.8	.0	.0	729	*	11.7
-2	.0	*	.1	4.7	10.2	.3	.0	.0	946	*	15.2
-3	.0	*	.2	4.5	6.9	.2	.0	.0	736	.0	11.8
-4	.0	*	.3	6.3	4.5	*	.0	.0	696	*	11.2
-5	*	*	.2	4.1	2.3	*	.0	.0	412	.0	6.7
-6	.0	*	.3	3.1	.8	*	.0	.0	268	.0	4.3
-7/-8	.0	*	.5	2.3	.6	.0	.0	.0	214	.0	3.5
-9/-10	.0	.0	.4	.4	.1	.0	.0	.0	56	.0	.9
-11/-13	.0	*	.1	.1	*	.0	.0	.0	16	.0	.3
-14/-16	*	*	.0	.0	.0	.0	.0	.0	3	.0	*
TOTAL	3		153		3351		69			14	6178
		18		1984		608		8	6192		
PCT	*	.3	2.4	32.0	54.1	9.8	1.1	.1	100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1979

TABLE 1C

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.6	1.9	.1	.0	.0	.0	3.6
1-2	1.1	3.7	.2	.0	.0	.0	5.0
3-4	.1	.5	.2	.0	.0	.0	.9
5-6	.0	.1	.0	.0	*	.0	.1
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.9	6.5	.7	.0	.1	.0	10.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	1.7	.1	.0	.0	.0	2.7
1-2	.6	3.0	.2	.0	.0	.0	3.8
3-4	.1	.4	.3	*	.0	.0	1.3
5-6	.0	.2	.2	.1	*	.0	.5
7	.0	.1	.3	.0	.0	.0	.4
8-9	.0	.1	.1	.0	.0	.0	.2
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	5.4	1.3	.3	.0	.0	8.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	1.4	.0	.0	.0	.0	2.3
1-2	.1	4.1	.5	.1	.0	.0	4.7
3-4	.2	1.6	.8	.1	.0	.0	2.6
5-6	.1	.3	.4	.1	.0	.0	.9
7	.0	.1	.1	.0	.0	.0	.2
8-9	.0	.1	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	7.7	1.9	.2	.0	.0	11.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.7	.0	.0	.0	.0	2.2
1-2	.2	2.3	.4	.0	.0	.0	2.9
3-4	*	.7	.4	.0	.0	.0	1.1
5-6	.0	.1	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	3.5	.9	.0	.0	.0	5.4

PERIOD: (OVER-ALL) 1963-1979 DECEMBER AREA CODE ACAPULCO SOUTH

TABLE 18 (CONT) 15.7N 98.9W

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.9	.0	.0	.0	.0	1.6
1-2	.5	2.0	.1	.0	.0	.0	2.5
3-4	.0	.6	.0	.0	.0	.0	.6
5-6	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	3.6	.1	.0	.0	.0	4.8

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.8	.1	.0	.0	.0	1.2
1-2	.8	2.9	*	.0	.0	.0	3.7
3-4	.1	.4	.0	.0	.0	.0	.4
5-6	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	4.2	.1	.0	.0	.0	5.5

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	3.9	.0	.0	.0	.0	4.8
1-2	1.9	8.0	.8	.0	.0	.0	10.6
3-4	.2	2.2	1.3	.1	.0	.0	3.7
5-6	.0	.4	.4	.0	.0	.0	.8
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.0	14.4	2.4	.1	.0	.0	20.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	2.6	4.0	.0	.0	.0	.0	6.7	
1-2	.7	6.7	1.3	.0	.0	.0	8.7	
3-4	.1	2.0	.6	*	.0	.0	2.8	
5-6	.0	.5	.1	.0	.0	.0	.6	
7	.0	.1	.0	.0	.0	.0	.1	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.4	13.4	2.0	*	.0	.0	18.8	84.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	24.8	14.7	.2	.0	.0	.0	39.7	
1-2	6.8	32.1	3.4	.0	.0	.0	42.3	
3-4	.9	8.6	3.4	.1	.0	.0	13.0	
5-6	.1	1.8	1.1	.1	.1	.0	3.3	
7	.0	.3	.6	.1	.0	.0	.9	
8-9	.0	.2	.1	.0	.0	.0	.4	
10-11	.0	.0	.1	.1	.0	.0	.2	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.1	.1	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1413
TOT PCT	32.6	57.8	8.8	.5	.2	.0	100.0	

PERIOD: (OVER-ALL) 1949-1979 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	PEAK HGT
<6	11.7	24.3	12.7	3.9	1.0	.9	.1	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	2595	2
6-7	.4	3.1	5.9	2.9	.9	.5	.1	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	649	4
8-9	.1	1.2	2.1	1.4	.6	.4	.1	*	*	*	.0	*	.0	.0	.0	.0	.0	.0	.0	283	4
10-11	.0	1.1	.6	.5	.2	.1	.1	*	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	129	4
12-13	.0	.0	.6	.3	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	53	4
>13	.0	.0	.0	.4	.1	*	.0	.0	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	28	7
INDET	17.0	2.3	2.2	.5	.1	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1057	1
TOTAL	1386	1521	1125	464	151	74	19	11	14	4	4	1	.0	.0	.0	.0	.0	.0	.0	4754	2
PCT	29.2	32.0	23.7	9.3	3.2	1.6	.4	.2	.3	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	100.0	

ANNUAL

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1861-1979

AREA 0007 ACAPULCO SOUTH
15.7N 98.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	1.7	.7	.8	.0	.0	.0	*	3.1	1.3	3.6	.2	.0	1.9		*	90.3
NE	2.9	1.2	.8	.0	.0	.0	*	4.9	2.3	3.9	.4	.0	2.0		*	86.7
E	4.3	1.8	1.2	.0	.0	.0	*	7.3	3.0	3.2	.2	.0	1.7		.1	84.8
SE	3.8	2.0	1.0	.0	.0	.0	.0	6.7	3.0	3.2	.2	.0	1.7		*	85.5
S	2.9	1.6	.9	.0	.0	.0	.1	5.3	2.3	3.2	.1	.0	1.9		.0	87.4
SW	2.8	1.2	.9	.0	.0	.0	*	4.8	2.0	2.6	.3	*	2.2		*	88.2
W	1.4	.7	.5	.0	.0	.0	*	2.6	1.3	2.5	.2	*	1.7		*	91.7
NW	1.2	.7	.5	.0	.0	.0	*	2.3	1.0	2.8	.2	.0	1.5		*	92.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0		.0	.0
CALM	.4	.5	.3	.0	.0	.0	*	1.2	.7	3.7	.2	*	3.8		*	90.2
TOT PCT	2.1	1.1	.7	.0	.0	.0	*	3.8	1.7	2.9	.2	*	2.0		*	89.5
TOT OBS: 92078																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00E03	1.3	.7	.5	.0	.0	.0	*	2.4	1.1	.6	.2	*	1.9		*	93.9
06E09	2.6	1.4	.8	.0	.0	.0	*	4.7	2.1	7.6	.2	.0	1.6		.1	84.0
12E15	3.1	1.5	1.1	.0	.0	.0	*	5.7	2.2	4.1	.3	*	1.9		*	86.1
18E21	1.6	.9	.4	.0	.0	.0	*	2.8	1.5	.3	.2	.0	2.4		*	92.9
TOT PCT	2.1	1.1	.7	.0	.0	.0	*	3.8	1.7	3.0	.2	*	1.9		*	89.4
TOT OBS: 95143																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)					
WND DIR	0-3	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	5.4	.7	*	*	*		8.2	6.2	3.3	3.4	6.6	4.8	13.5	10.4	9.9	9.1
NE	1.2	4.0	.8	.1	*	*		6.1	7.2	3.0	4.9	5.3	5.0	8.9	9.5	7.1	7.0
E	1.3	5.1	2.2	.4	.1	*		9.1	8.8	6.1	6.2	8.8	6.8	10.6	10.1	11.0	8.3
SE	1.1	4.0	1.7	.3	.1	*		7.2	8.2	8.3	7.5	7.6	8.1	5.1	5.9	7.8	7.6
S	1.0	2.9	.7	.1	*	*		4.7	6.8	7.6	6.2	4.8	6.5	2.5	2.6	3.9	4.9
SW	1.4	4.8	.9	.1	*	*		7.2	6.9	13.6	10.8	6.5	10.6	3.1	5.0	5.2	7.9
W	3.5	17.4	4.9	.2	*	*		26.0	7.9	38.8	33.6	26.9	30.1	17.1	21.4	23.1	25.5
NW	3.0	13.4	2.9	.1	*	*		19.4	7.4	12.6	16.0	17.9	18.4	24.9	25.6	23.5	22.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	12.0							12.0	.0	6.7	11.6	15.5	9.6	14.3	9.5	12.6	6.9
TOT OBS							95143		6.8	22690	1683	21380	1514	21223	2696	25529	1842
TOT PCT	26.6	57.0	14.8	1.3	.2	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	5.3	2.8	.1	*	*		8.2	6.2	3.3	6.5	13.2	9.7
NE	3.5	2.3	.2	*	*		6.1	7.2	3.1	5.3	8.8	7.1
E	3.9	4.1	.9	.2	*		9.1	8.8	6.1	8.7	10.6	10.8
SE	3.2	3.2	.7	.1	*		7.2	8.2	8.3	7.6	5.2	7.8
S	2.7	1.8	.2	*	*		4.7	6.8	7.5	4.9	2.5	4.0
SW	4.1	2.9	.2	*	*		7.2	6.9	13.4	6.8	3.4	5.4
W	11.9	13.1	.9	*	*		26.0	7.9	38.4	27.1	17.6	21.4
NW	9.8	9.1	.4	*	*		19.4	7.4	12.8	18.0	24.9	21.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	12.0						12.0	.0	7.1	15.1	13.7	12.3
TOT OBS						98517		6.8	24373	22854	23919	27371
TOT PCT	56.3	39.3	3.7	.5	.1		100.0		100.0	100.0	100.0	100.0

ANNUAL

PERIOD: (PRIMARY) 1952-1976
(OVER-ALL) 1961-1979

AREA CODE ACAPULCO SOUTH
15.7N 98.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00E03	7.1	12.4	60.0	18.8	1.5	.2	*	7.7	100.0	24373
06E09	15.1	13.0	55.6	14.8	1.2	.2	*	6.6	100.0	22854
12E15	13.7	15.0	57.4	12.4	1.2	.2	*	6.4	100.0	23916
18E21	12.3	17.6	55.2	13.2	1.4	.2	*	6.5	100.0	27371
TOT								6.8		98517
PCT	12.0	14.6	57.0	14.8	1.3	.2	*		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.0	1.8	1.8	.8		3.4
NE	2.9	1.2	1.5	.8		3.6
E	2.5	1.7	2.9	2.0		4.2
SE	1.6	1.4	2.5	1.7		4.2
S	1.3	1.0	1.5	.9		3.9
SW	2.6	1.5	2.0	1.0		3.7
W	12.4	5.8	5.7	2.2		3.3
NW	9.4	4.3	4.0	1.4		3.2
VAR	.0	.0	.0	.0		.0
CALM	6.4	2.5	2.4	.7		3.0
TOT OBS					75132	3.5
TOT PCT	42.9	21.3	24.4	11.4	100.0	

TABLE 6

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

WND DIR	CCC 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	GM <5/8 ANY HGT	TOTAL OBS
N	*	*	.1	.3	.4	.2	.1	*	*	*	7.2	
NE	*	*	.1	.3	.4	.2	.1	*	*	*	6.9	
E	.1	.1	.2	.7	1.0	.4	.2	.1	*	*	6.3	
SE	.1	.1	.2	.7	.8	.3	.1	.1	*	*	6.8	
S	*	*	.1	.3	.5	.2	.1	*	*	*	3.5	
SW	.1	*	.1	.4	.5	.2	.1	*	*	*	5.6	
W	.1	*	.2	.8	1.3	.6	.3	.1	.1	.1	27.7	
NW	*	*	.1	.5	.6	.2	.1	.1	.1	.1	16.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	*	*	.3	.5	.2	.1	*	*	.1	10.8	
TOT OBS												75132
TOT PCT	.5	.3	1.0	4.3	6.3	2.7	1.2	.4	.2	.3	82.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (GM >H/8) AND VSBY (SM)

CEILING (FEET)	VSBY (SM) : GE >10	: GE >5	: GE >2	: GE >1	: GE >1/2	: GE >1/4	: GE >5EVE	: GE >0
: GE >6500	.5	.6	.6	.6	.6	.6	.6	.6
: GE >5000	.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0
: GE >3500	1.9	2.1	2.2	2.2	2.2	2.2	2.2	2.2
: GE >2000	4.3	4.8	4.9	4.9	4.9	4.9	4.9	4.9
: GE >1000	9.4	10.8	11.1	11.1	11.1	11.1	11.2	11.2
: GE >600	12.4	14.8	15.3	15.4	15.4	15.4	15.4	15.4
: GE >300	12.9	15.6	16.2	16.3	16.4	16.4	16.4	16.5
: GE >150	13.0	15.8	16.4	16.6	16.6	16.7	16.7	16.7
: GE > 0	13.2	16.2	16.8	17.1	17.1	17.2	17.2	17.2

TOTAL NUMBER OF OBS: 77369 PCT FREQ GM <5/8: 82.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	.	TOTAL OBS
22.6	21.2	18.0	12.6	9.0	4.5	4.4	3.3	5.1	.3	61772

PERIOD: (PRIMARY) 1952-1976
(OVER-ALL) 1961-1976

AREA OBST ACAPULCO SOUTH
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	*	*	*	*	*	*	*	.0	*	.1	
	NO PCP	*	*	*	*	*	*	*	*	.0	*	*	
	TOT %	*	*	*	*	*	*	*	*	.0	*	.1	
1/2<1	PCP	*	*	*	*	*	*	*	*	.0	*	.1	
	NO PCP	*	*	*	*	.0	*	*	*	.0	.0	*	
	TOT %	*	*	*	*	*	*	*	*	.0	*	.1	
1<2	PCP	*	*	.1	*	*	*	*	*	.0	*	.2	
	NO PCP	*	*	*	*	*	*	*	*	.0	*	.1	
	TOT %	*	*	.1	.1	*	*	*	*	.0	*	.3	
2<5	PCP	*	*	.1	.1	.1	.1	.1	*	.0	*	.5	
	NO PCP	*	*	.1	.1	*	*	.1	.1	.0	*	.4	
	TOT %	.1	.1	.2	.2	.1	.1	.2	.1	.0	*	1.0	
5<10	PCP	.1	.1	.3	.2	.1	.1	.2	.2	.0	*	1.4	
	NO PCP	.4	.4	.7	.4	.3	.5	1.3	1.0	.0	.4	5.0	
	TOT %	.5	.5	1.0	.6	.5	.7	1.5	1.2	.0	.7	7.4	
10+	PCP	.1	.1	.3	.2	.1	.1	.3	.2	.0	.1	1.5	
	NO PCP	7.6	5.3	7.5	5.9	4.0	6.3	24.6	18.8	.0	10.9	89.1	
	TOT %	7.7	5.4	7.8	6.2	4.1	6.4	24.9	18.9	.0	11.0	9 ,	
	TOT OBS												91030
	TOT PCT	8.3	6.1	9.2	7.3	4.7	7.2	26.1	19.4	.0	11.7	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	*	*	
	4-10	*	*	*	*	*	*	*	*	.0		.1	
	11-21	*	*	*	*	*	*	*	*	.0		*	
	22+	*	*	*	*	*	*	*	*	.0		.1	
	TOT %	*	*	*	*	*	*	*	*	.0	*	.2	
1/2<1	0-3	.0	*	*	*	.0	*	.0	.0	.0	*	*	
	4-10	*	*	*	*	*	*	*	*	.0		*	
	11-21	*	*	*	*	*	*	*	*	.0		*	
	22+	*	*	*	*	*	*	*	*	.0		*	
	TOT %	*	*	*	*	*	*	*	*	.0	*	.1	
1<2	0-3	*	*	*	*	.0	.0	*	*	.0	*	*	
	4-10	*	*	*	*	*	*	*	*	.0		.1	
	11-21	*	*	*	*	*	*	*	*	.0		*	
	22+	*	*	*	*	*	*	*	*	.0		*	
	TOT %	*	*	.1	.1	*	*	*	*	.0	*	.3	
2<5	0-3	*	*	*	*	*	*	*	*	.0	.1	.1	
	4-10	*	*	.1	.1	*	*	.1	.1	.0		.5	
	11-21	*	*	*	*	*	*	*	*	.0		*	
	22+	*	*	*	*	*	*	*	*	.0		*	
	TOT %	.1	.1	.2	.2	.1	.1	.2	.1	.0	.1	1.3	
5<10	0-3	.1	.1	.1	.1	.1	.1	.2	.2	.0	.2	1.5	
	4-10	.3	.3	.5	.4	.3	.4	.9	.6	.0		3.6	
	11-21	.1	.1	.2	.1	.1	.1	.3	.2	.0		1.1	
	22+	*	*	.2	*	*	*	.1	*	.0		.4	
	TOT %	.5	.5	1.0	.6	.5	.6	1.5	1.1	.0	.7	7.3	
10+	0-3	2.0	1.1	1.2	1.0	.6	1.1	3.2	2.8	.0	11.2	26.4	
	4-10	5.0	3.6	4.6	3.6	2.6	4.6	16.4	12.6	.0		52.8	
	11-21	.6	.6	1.7	1.3	.5	.7	4.5	2.7	.0		12.6	
	22+	*	.1	.3	.2	*	*	.1	.1	.0		.8	
	TOT %	7.7	5.4	7.7	6.1	4.1	6.4	24.7	18.1	.0	11.2	92.8	
	TOT OBS												95829
	TOT PCT	8.3	6.1	9.2	7.3	4.7	7.2	26.2	19.4	.0	11.4	100.0	

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PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1861-1979

AREA 0007 ACAPULCO SOUTH
15.7N 98.9W

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	.3	.2	.7	3.2	5.1	2.5	1.0	.4	.3	.3	13.9	86.1	20672
06E09	.8	.2	1.1	4.6	6.6	2.8	1.1	.3	.2	.3	18.1	81.9	18552
12E15	.6	.3	1.4	5.4	7.2	2.6	1.2	.4	.2	.4	19.8	80.2	19239
18E21	.4	.3	.8	3.5	5.5	2.4	1.3	.4	.3	.3	15.2	84.8	22245
TOT PCT	.5	.2	1.0	4.1	6.0	2.6	1.2	.4	.2	.3	16.6	83.4	80728 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.2	.1	.2	.9	5.3	93.3	24210
06E09	.2	.1	.3	1.4	8.7	89.2	23252
12E15	.2	.1	.5	1.7	9.4	88.1	24012
18E21	.2	.1	.3	1.1	6.1	92.2	27500
TOT PCT	.2	.1	.3	1.3	7.3	90.8	98974 100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NM <5/8 AND 5+	TOTAL OPS
00E03	.3	1.3	5.0	9.7	85.4	19835
06E09	.8	2.3	7.7	11.5	80.9	17767
12E15	.6	2.5	8.8	12.0	79.2	18478
18E21	.4	1.6	5.6	10.3	84.0	21349
TOT PCT	.5	1.9	6.7	10.8	82.5	77365 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY 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	.1	*	*	*	*	*	*	.0		.1
90/94	.0	.0	*	.3	1.1	.5	.1	*		2.1
85/89	.0	*	*	.4	4.6	11.0	2.9	.5		19.6
80/84	.0	.0	.1	.5	6.6	28.4	22.6	3.8		61.9
75/79	.0	.0	*	.1	.6	4.4	6.6	4.1		15.7
70/74	.0	.0	.0	.0	*	.1	.2	.3		.6
65/69	.0	.0	.0	.0	.0	*	*	*		*
TOTAL PCT	.0	*	.1	1.2	13.0	44.5	32.4	8.8	76846	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	*	*	*	*	*	*	*	*	.0	*
	2	.1	.2	.1	.1	.1	.6	.5	.0	.2
	1.3	.9	1.5	1.5	1.0	1.6	5.7	3.8	.0	2.2
	5.1	3.7	5.6	4.4	2.9	4.4	16.3	11.8	.0	7.7
	1.6	1.3	1.9	1.1	.7	.9	3.3	3.0	.0	2.0
	.1	.1	.1	*	*	*	.1	.1	.0	.1
	*	*	.0	.0	.0	.0	.0	*	.0	*
	8.4	6.1	9.2	7.2	4.7	7.0	26.0	19.2	.0	12.2

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	97	90	88	83	79	76	69	83.4	24738
06E09	97	86	84	81	78	75	65	81.4	23653
12E15	96	85	84	81	76	74	67	80.5	24134
18E21	98	92	89	84	79	76	69	83.9	27916
TOT	98	90	87	82	78	75	65	82.4	100911

TABLE 16

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	1.4	17.2	51.3	24.5	5.5	76	19902
06E09	.0	.5	6.0	42.0	41.1	10.5	80	19008
12E15	.0	.4	4.4	35.3	45.4	14.5	82	19236
18E21	.0	2.9	22.6	48.8	20.3	5.4	75	21312
TOT	0	1043	10092	35257	25966	7100	78	79458

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1861-1979

AREA 0007 ACAPULCO SOUTH
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TABLE 17

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

AIR-SEA TMP DIF	≤1 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	% FOG	NO FOG
17/19	.0	.0	.0	.0	.0	*	*	*	*	6	.0	*
14/16	.0	.0	.0	.0	.0	*	*	*	*	58	.0	.1
11/13	.0	.0	.0	.0	*	.1	.1	*	.1	204	.0	.2
9/10	.0	.0	.0	.0	*	.1	.1	.1	.1	383	*	.4
7/8	.0	.0	.0	*	.1	.2	.3	.4	.1	963	.0	1.1
6	.0	.0	.0	*	.1	.2	.3	.3	*	805	*	.9
5	.0	.0	.0	*	.1	.4	.7	.5	*	1519	*	1.8
4	.0	.0	.0	*	.1	.8	1.2	.5	*	2358	*	2.7
3	.0	.0	*	*	.2	.8	1.6	.4	*	2603	*	3.0
2	.0	.0	*	*	.4	2.7	2.7	.3	*	5251	*	6.1
1	.0	.0	*	*	.5	3.1	2.8	.1	*	5602	*	6.5
0	.0	.0	*	.1	1.4	8.1	3.5	.1	*	11325	*	13.1
-1	.0	.0	*	.1	1.7	7.9	2.4	*	.0	10444	*	12.1
-2	.0	.0	*	.1	3.3	10.4	1.3	*	.0	13084	*	15.1
-3	.0	.0	*	.1	3.3	6.2	.6	*	.0	9392	*	10.9
-4	.0	.0	*	.3	4.1	5.4	.3	*	.0	8702	*	10.1
-5	.0	*	*	.3	3.2	2.9	.2	.0	.0	5633	*	6.5
-6	.0	.0	*	.3	2.3	1.1	*	.0	.0	3275	*	3.8
-7/-8	.0	.0	*	.6	2.3	.7	*	.0	.0	3178	*	3.6
-9/-10	.0	*	*	.5	.6	.1	*	.0	.0	1101	*	1.3
-11/-13	.0	*	*	.2	.1	*	.0	.0	.0	369	.0	.4
-14/-16	.0	*	*	*	*	.0	.0	.0	.0	53	.0	.1
-17/-19	*	*	*	*	.0	.0	.0	.0	.0	8	.0	*
-20/-22	.0	*	.0	*	.0	.0	.0	.0	.0	2	.0	*
TOTAL										86298		
PCT	*	*	.1	2.6	23.8	52.0	18.1	2.9	.3	100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	1.6	*	.0	.0	.0	2.7
1-2	.6	3.1	.2	.0	.0	.0	3.9
3-4	.1	.6	.3	*	.0	.0	1.2
5-6	.0	.2	.1	*	*	.0	.3
7	.0	*	*	*	.0	.0	.1
8 9	.0	*	*	.0	.0	.0	*
10-11	.0	.0	*	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	*
13-16	.0	.0	*	*	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.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	5.7	.2	*	*	.0	8.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.1	*	*	.0	.0	1.7
1-2	.3	2.1	.2	.0	.0	.0	2.6
3-4	.1	.8	.3	*	.0	.0	1.2
5-6	*	.1	.2	*	*	.0	.4
7	.0	*	.1	*	.0	.0	.1
8 9	.0	*	*	*	*	.0	*
10-11	.0	.0	*	*	.0	.0	*
12	.0	.0	*	.0	*	.0	*
13-16	.0	.0	.0	*	*	.0	*
17-19	.0	.0	.0	*	.0	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	4.1	.9	.1	*	.0	6.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.1	*	.0	.0	.0	1.7
1-2	.3	*	.6	.0	.0	.0	3.5
3-4	.1		1.1	*	.0	.0	2.3
5-6	*	.2	.6	.1	*	.0	1.0
7	.0	.1	.3	.1	.0	.0	.5
8-9	.0	*	.1	.1	*	.0	.2
10-11	.0	.0	*	.1	*	*	.1
12	.0	.0	*	*	*	.0	*
13-16	.0	.0	*	*	*	.0	.1
17-19	.0	.0	.0	.0	*	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	*	.0	*
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	5.1	2.6	.5	.1	*	9.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.9	*	.0	.0	.0	1.3
1-2	.4	2.2	.4	*	.0	.0	3.0
3-4	.1	.9	.8	*	.0	.0	1.8
5-6	*	.2	.5	.1	*	.0	.8
7	.0	.1	.2	.1	*	.0	.3
8-9	.0	*	.1	*	*	.0	.1
10-11	.0	.0	*	*	*	.0	.1
12	.0	.0	*	*	.0	.0	*
13-16	.0	.0	.0	*	*	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	*	.0	*
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	4.2	2.0	.3	.1	.0	7.5

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PERIOD: (OVER-ALL) 1963-1979 — TABLE 18 (CONT) — AREA 0007 ACAPULCO SOUTH 15.7N 98.9W

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.8	*	.0	.0	.0	1.3
1-2	.3	1.5	.2	.0	.0	.0	2.0
3-4	*	.6	.2	*	.0	.0	.8
5-6	*	.1	.1	*	.0	.0	.2
7	.0	*	.1	*	*	.0	.2
8-9	.0	*	*	*	*	.0	*
10-11	.0	.0	.0	*	.0	.0	*
12	.0	.0	*	*	.0	.0	*
13-16	.0	.0	.0	*	*	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	.5	.1	*	.0	4.5

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.1	*	.0	.0	.0	1.7
1-2	.5	2.7	.3	*	.0	.0	3.5
3-4	.1	.7	.4	*	.0	.0	1.2
5-6	*	.2	.2	*	.0	.0	.4
7	.0	*	.1	*	*	.0	.1
8-9	.0	*	*	*	*	.0	.1
10-11	.0	.0	*	*	*	*	*
12	.0	.0	*	*	*	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	4.8	1.0	.1	*	.0	6.9

W

HGT	1-3	4-10	11-21		34-47	48+	PCT
<1	1.5	4.0	.1	*	.0	.0	5.6
1-2	1.1	9.7	1.7	.0	.0	.0	12.6
3-4	.1	3.6	2.1	*	.0	.0	5.9
5-6	*	.5	.9	.1	.0	.0	1.5
7	.0	.1	.3	.1	*	.0	.5
8-9	.0	*	.1	*	.0	.0	.1
10-11	.0	.0	*	*	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	*	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	17.9	5.3	.2	*	.0	26.2

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.3	3.2	.1	.0	.0	*	4.6	
1-2	1.0	8.0	1.3	.0	.0	.0	10.2	
3-4	.1	2.5	1.3	*	.0	.0	3.9	
5-6	*	.4	.5	*	.0	.0	.9	
7	.0	*	.1	*	.0	.0	.2	
8-9	.0	*	*	*	.0	.0	.1	
10-11	.0	.0	*	.0	*	.0	*	
12	.0	.0	.0	*	.0	.0	*	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.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	14.1	3.2	.1	*	*	19.9	58.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	18.3	13.7	.3	*	.0	*	32.3	
1-2	5.4	31.3	4.8	*	.0	.0	41.4	
3-4	.8	11.7	6.3	.2	.0	.0	17.9	
5-6	.1	1.8	3.0	.4	*	.0	5.3	
7	.0	.4	1.0	.4	*	.0	1.9	
8-9	.0	.1	.3	.2	*	.0	.6	
10-11	.0	.0	.1	.1	*	*	.3	
12	.0	.0	*	.1	*	.0	.1	
13-16	.0	.0	*	.1	.1	.0	.2	
17-19	.0	.0	.0	*	*	.0	*	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	*	.0	*	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	24.6	58.0	15.8	1.3	.2	*	100.0	19626

PERIOD: (OVER-ALL) 1949-1979 — TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	8.3	20.8	14.3	4.4	1.4	.5	.2	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	33715	3
6-7	.2	2.7	6.7	5.0	1.9	.8	.4	.1	.1	*	*	*	*	*	.0	.0	.0	.0	.0	12484	4
8-9	.1	1.1	2.6	2.3	1.2	.6	.3	.1	.1	*	*	*	*	*	.0	.0	.0	.0	.0	6002	5
10-11	.0	.9	1.1	.9	.5	.3	.1	.1	.1	*	*	*	*	*	.0	.0	.0	.0	.0	2761	5
12-13	.0	.0	.4	.4	.2	.1	.1	*	*	*	*	*	*	.0	*	.0	.0	.0	.0	1168	5
>13	.0	*	.0	.3	.2	.1	*	*	*	*	*	*	.0	.0	.0	.0	.0	.0	.0	513	7
INDET	10.7	2.1	2.2	.9	.3	.2	.1	*	*	*	*	*	*	*	.0	.0	.0	.0	.0	10961	1
TOTAL PCT	19.3	27.7	27.7	14.4	5.9	2.6	1.2	.4	.5	.2	.1	*	*	*	.0	.0	.0	.0	.0	67644	3

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1861-1979

AREA 0007 ACAPULCO SOUTH
15.7N 98.9W

TABLE 20

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

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
98+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	*	*	.1	.0	*	.0	11	*
93/94	.0	.0	*	*	.1	.1	.1	.2	*	.1	.1	*	56	.1
91/92	.1	.1	.1	.3	.5	.5	.5	.8	.3	.4	.2	.1	304	.3
89/90	.2	.2	.4	1.1	3.0	3.0	2.7	4.2	2.9	2.4	1.1	.7	1764	1.9
87/88	1.4	1.4	1.9	4.5	13.9	14.6	15.0	20.2	15.3	11.7	8.8	3.8	8928	9.6
85/86	9.5	8.3	10.3	19.4	31.9	36.9	39.0	40.8	35.3	36.1	32.3	18.7	25050	27.1
83/84	30.2	28.7	28.6	30.6	28.5	28.6	30.2	25.3	30.3	32.2	33.5	34.7	27641	29.9
81/82	38.1	40.6	35.7	29.4	16.6	12.5	10.3	9.6	13.0	13.3	17.5	27.8	19874	21.5
79/80	12.9	14.0	14.9	10.0	3.9	2.5	1.5	1.0	1.9	2.5	4.0	8.5	5810	6.3
77/78	4.4	4.1	5.0	2.9	1.3	.9	.4	.5	.6	.9	1.2	2.6	1852	2.0
75/76	1.6	1.3	1.6	1.1	.5	.2	.2	.3	.4	.3	.6	1.3	694	.7
73/74	.9	.7	.9	.4	.2	.1	.2	*	.1	.1	.3	.9	346	.4
71/72	.5	.5	.2	.2	.1	.1	*	*	*	.1	.2	.5	167	.2
69/70	.1	.1	.2	*	.0	.0	*	.0	.0	*	.1	.2	60	.1
67/68	*	.1	.1	*	.0	.0	.0	.0	.0	.0	*	.1	21	*
65/66	*	*	.0	.0	.0	.0	.0	.0	.0	.0	*	*	5	*
63/64	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	*
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	7233	7251	7782	7708	9657	8135	8163	8023	7889	7909	7342	6693	92567	100.0
MEAN	82.0	81.9	82.0	82.9	84.3	84.7	84.8	85.3	84.7	84.5	84.0	82.8	83.6	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1011	1012	1013	1011	1013	1013	1014	1011	1013	7283
FEB	1011	1012	1013	1012	1012	1013	1014	1012	1012	7284
MAR	1010	1011	1013	1011	1012	1013	1013	1011	1012	8054
APR	1010	1011	1012	1010	1011	1012	1012	1011	1011	7936
MAY	1009	1010	1012	1009	1011	1011	1012	1010	1011	8979
JUN	1009	1010	1012	1009	1010	1011	1011	1010	1011	8470
JUL	1010	1011	1013	1010	1011	1012	1012	1011	1012	8491
AUG	1010	1011	1012	1010	1011	1011	1012	1010	1011	8377
SEP	1009	1010	1011	1009	1010	1011	1011	1010	1011	8235
OCT	1010	1010	1012	1010	1011	1011	1012	1009	1011	8201
NOV	1011	1012	1013	1011	1012	1012	1013	1011	1012	7505
DEC	1011	1012	1013	1011	1012	1013	1013	1011	1012	6872
ANN	1010	1011	1012	1010	1011	1012	1012	1011	1012	95687
OBS	22198	1076	21154	1446	21023	2057	25015	1718		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	996	1007	1009	1011	1013	1014	1016	1018	1025
FEB	1000	1006	1009	1011	1013	1014	1016	1018	1024
MAR	998	1005	1008	1010	1012	1013	1015	1017	1023
APR	997	1006	1008	1010	1011	1013	1015	1016	1022
MAY	998	1003	1007	1009	1011	1012	1014	1016	1021
JUN	997	1003	1007	1009	1011	1012	1014	1016	1023
JUL	994	1004	1008	1010	1012	1013	1015	1016	1024
AUG	995	1004	1008	1010	1012	1013	1015	1016	1023
SEP	994	1003	1007	1009	1011	1012	1014	1015	1021
OCT	995	1003	1007	1010	1011	1012	1014	1016	1021
NOV	997	1005	1008	1011	1012	1013	1015	1017	1023
DEC	997	1006	1009	1011	1013	1014	1016	1017	1021

JANUARY

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1807-1979

TABLE 1

AREA NO. 1 GULF OF TONKIN-REDEC
34.1N 96.1W

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WND DIR	PRECIPITATION TYPE: RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZG PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	OTHER WEATHER PHENOMENA: FOG NO PCPN	FOG W PCPN PAST H	SMOKE HAZE	SPRAY BLSNG DUST	NO SIG WEA
N	.2	*	*	.0	.0	.0	.0	.1	*	.1	.6	.0	1.5	.1	96.6
NE	.2	.1	.1	.1	.0	.0	.0	.1	.1	.1	.3	.0	1.8	.1	96.8
E	.1	.2	.1	.0	.0	.0	.0	.1	.1	.1	.3	.0	1.2	.1	97.1
SE	.0	.0	.1	.0	.0	.0	.0	.1	.1	.0	1.1	.1	2.4	.0	95.1
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	1.1	.1	98.9
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.7	.1	98.1
W	.0	.2	.2	*	.0	.0	.0	.1	.2	.2	.4	*	1.1	.2	97.5
NW	.1	.0	*	.0	.0	.0	.0	.1	.2	*	.5	.0	1.4	*	97.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	1.6	.1	5.9	.0	93.9
TOT PCT	.1	.1	.1	.0	.0	.0	.0	.1	.2	.2	.7	.1	1.5	.2	96.6
TOT OBS:	6717														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE: RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZG PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	OTHER WEATHER PHENOMENA: FOG NO PCPN	FOG W PCPN PAST H	SMOKE HAZE	SPRAY BLSNG DUST	NO SIG WEA
00&03	.1	.1	.1	.0	.0	.0	.0	.2	.2	.1	.2	.1	2.3	.1	96.9
06&09	.2	.1	.1	.0	.0	.0	.0	.1	.1	.1	.4	.1	1.7	.1	96.2
12&15	.1	.1	.0	.0	.0	.0	.0	.1	.2	.1	1.0	*	1.8	.2	96.3
18&21	.1	*	.1	.1	.0	.0	.0	.2	.1	.0	.6	*	1.6	.1	96.8
TOT PCT	.1	.1	.1	.0	.0	.0	.0	.2	.2	.2	.7	.1	1.9	.2	96.6
TOT OBS:	6944														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	WIND SPEED (KNOTS): 0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT): 00	03	06	09	12	15	18	21
N	2.5	10.2	9.6	6.3	2.7	.6		32.2	16.6	30.1	33.2	45.7	47.6	33.4	25.2	27.8	28.1
NE	1.5	6.8	6.1	4.1	1.4	.3		20.3	16.1	19.7	22.3	27.7	18.9	17.9	27.6	25.9	24.4
E	1.2	3.9	2.2	.7	.1	*		8.2	10.6	9.3	9.3	6.9	6.7	7.5	9.5	7.9	8.8
SE	.7	1.7	.5	*	*	.0		2.9	8.5	3.1	4.9	3.1	4.7	2.4	1.1	2.8	3.1
S	.4	1.3	.2	*	*	.0		2.0	6.7	3.1	1.2	2.2	1.7	1.3	.7	1.1	1.7
SW	.5	1.7	.3	*	*	.0		2.5	6.8	3.4	2.2	3.4	2.4	1.7	1.6	1.8	2.8
W	1.5	4.6	.8	*	*	.0		6.9	9.9	6.3	5.8	7.6	4.5	7.0	5.6	5.6	5.2
NW	2.2	7.8	3.3	1.2	.5	*		15.0	10.9	14.7	12.9	13.6	17.9	16.7	14.4	15.0	14.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.1							10.1	.0	8.3	10.2	14.6	16.9	11.2	8.1	6.8	6.9
TOT OBS	1570	3440	1702	927	352	66	7456		12.1	1665	147	1556	201	1452	221	1465	231
TOT PCT	21.0	39.1	22.8	12.4	4.7	.9		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WND DIR	WIND SPEED (KNOTS): 0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT): 00 03	06 09	12 15	18 21
N	7.5	10.9	8.1	4.4	1.3		32.2	16.6	30.1	34.6	33.6	37.7
NE	4.9	7.2	5.7	2.6	.5		20.3	16.1	19.9	20.5	19.2	21.3
E	3.1	3.6	1.1	.2	.1		8.2	10.6	6.9	8.6	7.2	9.0
SE	1.6	.9	.1	.0	*		2.9	8.5	3.3	3.2	2.2	2.6
S	1.3	.6	*	*	.0		2.0	6.7	2.7	2.2	1.2	1.6
SW	1.9	1.1	*	*	.0		2.5	6.8	3.3	3.3	1.7	1.9
W	4.1	2.6	.2	*	.0		6.9	9.9	6.3	7.3	6.8	5.9
NW	6.0	6.1	2.7	.6	.1		15.0	10.9	14.0	14.1	16.4	13.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	10.1						10.1	.0	8.3	14.4	11.7	6.5
TOT OBS	2997	2446	1236	630	156	7456		12.1	1665	1775	1673	2216
TOT PCT	40.2	32.8	16.6	8.4	2.1		100.0		100.0	100.0	100.0	100.0

JANUARY

PERIOD (PRIMARY) 1952-1975
(OVERALL) 1952-1975

AREA CODE GULF OF TEHUANTEPEC
14.1N 94.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00-03	6.5	10.4	41.0	22.6	12.1	4.4	.5	12.0	100.0	1815
04-07	14.9	11.4	36.5	20.9	10.4	4.7	.6	11.1	100.0	1755
08-11	11.7	11.0	37.7	22.7	11.6	4.4	1.0	11.7	100.0	1679
12-15	6.5	11.6	37.2	24.4	14.7	5.3	.9	13.2	100.0	2216
TOT	735	815	2852	1702	927	354	66	12.1		7469
PCT	10.1	10.9	38.2	22.8	12.4	4.7	.9		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCN	TOTAL OBS	MEAN CLOUD COVER
N	26.6	3.6	2.1	.3		1.2
NE	15.9	2.2	1.6	.2		1.2
E	6.3	1.7	.6	.1		1.4
SE	2.1	.5	.2	*		1.6
S	1.5	.4	.2	*		1.6
SW	1.9	.4	.7	.1		1.9
W	5.5	1.1	.5	.1		1.6
NW	12.0	1.5	1.1	.3		1.7
VAR	.0	.0	.0	.0		.0
CALM	3.3	.4	.7	.2		1.1
TOT OBS	4463	647	391	77	5577	1.3
TOT PCT	80.0	11.6	7.0	1.4	100.0	

TABLE 6

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

WND DIR	<100	100 199	200 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	MM <5/8 ANY HGT	TOTAL OBS
N	*	.0	*	.2	.3	.3	.2	.1	.0	*	31.4		
NE	*	.0	*	.1	.2	.1	*	*	.1	*	18.9		
E	*	.0	*	*	.1	.1	*	.0	.0	.0	*	7.9	
SE	*	.0	.0	*	*	*	*	.0	.0	.0	.0	2.6	
S	.0	.0	.0	.0	*	*	*	.0	.0	.0	.0	1.9	
SW	*	.0	.0	*	.1	*	.0	.0	.0	.0	*	2.5	
W	*	.0	*	.1	.2	.1	*	.0	.0	.0	*	6.9	
NW	*	.0	*	.1	.2	.1	*	*	*	*	*	14.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.0	.1	.2	.1	*	.0	.0	.0	.0	9.6	
TOT OBS	15	0	6	40	79	45	18	4	4	1	5355		5577
TOT PCT	.3	.0	.1	.7	1.4	.9	.3	.1	.1	.1	96.0		100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >5/16	= OR >0
= OR >15000	.2	.2	.2	.2	.2	.2	.2	.2
= OR >7000	.3	.4	.4	.4	.4	.4	.4	.4
= OR >3500	.7	.7	.7	.7	.7	.7	.7	.7
= OR >2000	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5
= OR >1000	2.6	2.8	2.9	2.9	2.9	2.9	2.9	2.9
= OR >600	3.3	3.6	3.6	3.6	3.6	3.6	3.6	3.6
= OR >300	3.4	3.7	3.8	3.8	3.8	3.8	3.8	3.8
= OR >150	3.4	3.7	3.8	3.8	3.8	3.8	3.8	3.8
= OR > 0	3.5	3.8	3.9	3.9	3.9	3.9	4.0	4.0
TOTAL	201	218	225	224	224	224	224	231

TOTAL NUMBER OF OBS. 5758 PCT FREQ MM <5/8: 96.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
56.3	22.2	9.7	4.9	2.6	1.4	1.1	.0	.7	.2	6000

JANUARY

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1962-1979

TABLE F

AREA 06/6 GULF OF TEHUANTEPEC
14.1N 94.4W

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	*	.0	*	*	.0	*	*	*	.0	*	.1	
	TOT %	*	.0	*	*	.0	*	*	*	.0	*	.1	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
1<2	PCP	*	*	*	.0	.0	.0	.0	.0	.0	.0	*	
	NO PCP	*	*	.0	.0	.0	.0	.0	*	.0	*	.1	
	TOT %	*	*	*	.0	.0	.0	.0	*	.0	*	.1	
2<5	PCP	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	NO PCP	.1	.1	*	*	.0	.0	.0	*	.0	*	.3	
	TOT %	.1	.1	*	*	.0	.0	.0	*	.0	*	.3	
5<10	PCP	.0	.0	*	*	.0	*	.0	*	.0	.0	*	
	NO PCP	2.1	1.4	.3	.1	.1	.1	.2	.5	.0	.5	5.3	
	TOT %	2.1	1.4	.3	.1	.1	.1	.2	.5	.0	.5	5.3	
10+	PCP	.1	*	*	.0	.0	.0	*	*	.0	.0	.2	
	NO PCP	29.7	18.7	7.9	2.7	2.0	2.5	6.6	14.3	.0	9.3	93.9	
	TOT %	29.7	18.7	8.0	2.7	2.0	2.5	6.9	14.3	.0	9.3	94.1	
	TOT OBS												6776
	TOT PCT	32.0	20.2	8.3	2.8	2.0	2.6	7.1	14.9	.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	.1	.1	
	4-10	*	.0	.0	*	.0	.0	*	*	.0		.1	
	11-21	*	.0	.0	.0	.0	.0	*	*	.0		*	
	22+	*	*	.0	.0	.0	.0	*	*	.0		*	
	TOT %	.1	*	*	*	*	*	*	*	.0	.1	.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	*	.0	.0	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	*	*	.0	.0	.0	.0	.0	.0	.0		*	
	TOT %	*	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
1<2	0-3	.0	.0	*	*	.0	.0	.0	*	.0	.0	*	
	4-10	*	*	.0	*	.0	.0	.0	.0	.0		*	
	11-21	*	*	.0	*	.0	.0	.0	.0	.0		*	
	22+	*	*	.0	*	.0	.0	.0	.0	.0		.1	
	TOT %	.1	*	*	*	.0	.0	.0	*	.0	.0	.2	
2<5	0-3	*	.0	*	*	.0	.0	.0	.0	.0	*	.1	
	4-10	*	.1	*	*	*	*	*	*	.0		.2	
	11-21	*	*	.0	.0	*	*	*	*	.0		.2	
	22+	.1	.1	.0	.0	*	*	*	*	.0		.2	
	TOT %	.1	.2	.1	*	*	*	*	.1	.0	*	.5	
5<10	0-3	.1	*	.1	.1	*	*	*	.1	.0	.5	1.0	
	4-10	.6	.5	.1	*	*	*	*	.2	.0		1.3	
	11-21	.6	.3	*	*	*	*	*	.1	.0		.9	
	22+	1.3	.6	*	.0	.0	*	*	.2	.0		2.1	
	TOT %	2.2	1.3	.2	.1	.1	*	*	.5	.0	.5	5.3	
10+	0-3	2.7	1.4	1.1	.6	.4	.5	1.4	2.0	.0	9.5	19.6	
	4-10	9.9	6.4	3.8	1.7	1.3	1.7	4.4	7.5	.0		36.6	
	11-21	9.3	5.8	2.2	.5	.2	.3	.6	3.1	.0		22.0	
	22+	6.6	5.1	.6	*	*	*	*	1.5	.0		15.5	
	TOT %	29.9	18.7	7.8	2.6	1.9	2.4	6.7	14.2	.0	9.5	93.7	
	TOT OBS												7251
	TOT PCT	32.3	20.3	8.2	2.8	2.0	2.5	6.9	14.8	.0	10.1	100.0	

JANUARY

PERIOD (PRIMARY) 1952-1974 AREA 0576 GULF OF TEHUANTEPEC
(DEVELOPMENT) 1963-1979 14.1N 96.4W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,AM 24/83 TAC
OCCURRENCE OF AM <5/6 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	AM <5/6 ANY HGT	TOTAL OBS
00E03	.1	.0	.2	.4	.6	.8	.1	.1	.1	.1	*	97.4	1567
06E09	.3	.0	.3	.4	.8	.7	.1	.1	.1	.2	3.3	94.7	1375
12E15	.4	.0	.1	.7	2.4	.7	.7	.1	.1	.1	5.4	94.6	1347
18E21	.2	.0	.1	.9	1.5	.5	.3	.2	.1	.1	4.2	95.4	1686
TOT	15	0	7	44	79	45	14	8	6	8	231	3744	5975
PCT	.3	.0	.1	.7	1.3	.8	.2	.1	.1	.1	3.9	96.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.1	.1	.7	.4	4.1	95.1	1561
06E09	.3	.0	.1	.0	6.3	92.3	1756
12E15	.4	.1	.2	.8	6.1	9[illegible]	1676
18E21	.2	*	.2	.4	4.5	94.4	2160
TOT	19	5	33	91	400	6959	7433
PCT	.3	*	.1	.0	5.4	93.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET,AM 24/83,BY HOUR

HOUR (GMT)	<150 <5370	<600 <1	<1000 <5	1000+ AND/OR 5+	AM <5/6 AND 5+	TOTAL OBS
00E03	.1	.3	2.1	2.0	96.9	1508
06E09	.3	.4	1.6	2.2	96.2	1334
12E15	.5	.6	4.0	4.2	93.7	1297
18E21	.2	.4	1.6	3.0	95.4	1619
TOT	15	24	91	153	5504	5756
PCT	.3	.4	1.6	2.4	95.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	*	.1	.2	.7	22	.4
85/89	.0	.0	.1	.4	1.3	1.[illegible]	209	3.7
80/84	.1	*	.3	1.0	6.6	17.4	946	1.6	2662	36.5
75/79	.3	.0	.1	.5	2.9	15.2	18.4	7.8	2556	45.3
70/74	.0	.0	.0	.1	1.1	3.7	4.3	3.5	708	12.5
65/69	.0	.0	.1	.0	.1	.4	.7	.3	85	1.5
60/64	.0	.0	.1	.0	.0	*	.0	.0	1	*
TOTAL	3	1	16	119	669	2153	1501	759	5663	100.0
PCT	.1	*	.3	2.1	12.7	39.[illegible]	33.7	13.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION AT TEMP

%	NE	E	SE	S	SW	W	NW	VAR	CALM
*	.1	.1	*	*	*	*	.1	.0	.0
.9	.4	.4	.2	*	.2	.4	.8	.0	.2
6.6	6.6	3.7	1.4	1.2	1.4	3.8	6.1	.0	3.8
15.5	9.4	3.6	.9	.8	1.0	2.7	6.4	.0	4.8
5.6	3.2	.6	.3	.1	.2	.2	1.3	.0	1.0
1.0	.3	.0	.0	*	*	.0	.2	.0	.0
*	.0	.0	.0	.0	.0	.0	.0	.0	.0
31.7	20.0	8.4	2.8	2.1	2.8	7.2	14.9	.0	10.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	90%	50%	10%	05%	MEAN	TOTAL OBS
00E03	93	87	84	79	72	69	66	74.0	1655
06E09	93	85	81	75	71	68	65	72.1	1807
12E15	92	83	81	78	73	68	66	77.0	1695
18E21	94	89	86	83	72	68	62	75.7	2254
TOT	94	87	84	79	72	68	62	74.3	7611

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	2.8	15.4	42.0	30.3	9.4	77	1503
06E09	.0	1.8	6.6	33.5	38.6	19.6	81	1350
12E15	.0	1.0	6.5	33.4	40.0	19.2	82	1331
18E21	.0	3.6	17.9	42.0	28.4	8.0	77	1644
TOT	0	139	702	2219	1976	762	79	5828

JANUARY

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1962-1979

AREA 00'S GULF OF TEHUANTEPEC
14.1N 94.7W

TABLE 17

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

AIR-SEA	≤1	≤5	≤9	73	77	≤1	85	≤9	>92		TOT	*	≤0
IMP DIF	≤4	≤8	72	76	≤0	≤4	≤8	92				FOG	FOG
≥0/≥2	.2	.0	.0	.0	.0	.0	.0	*	.0		2	.0	*
1*/1≤	.0	.0	.0	.0	.0	*	*	*	*		5	.0	.1
11/13	*	*	.0	*	.1	.1	.2	*	.1		26	.0	.1
9/1≤	.2	.1	.0	.1	.2	.3	.1	*	*		42	.0	.2
7/8	.1	.1	*	.1	.4	.7	.6	.1	*		117	.0	.8
6	.1	.1	*	.3	.4	.6	.3	*	*		94	.0	.6
5	.1	.1	*	.3	.6	.6	.5	*	*		119	.0	.6
4	.1	.1	*	.5	1.7	1.4	.6	.3	*		272	.0	1.1
3	.1	.1	*	.9	3.5	1.4	.6	.2	.0		274	.0	1.1
2	.1	.1	*	1.2	4.5	2.5	.5	.2	.0		455	.0	2.1
1	.1	.1	*	1.5	2.6	2.3	.2	.1	.0		446	.0	2.2
0	.1	.1	*	2.2	6.0	2.6	.3	.1	.0		865	.0	3.7
-1	.1	.1	*	1.8	5.3	3.3	.3	.1	.0		697	.0	3.0
-2	.1	.1	*	1.7	7.2	2.8	.3	.1	.0		767	.0	3.5
-3	.1	.1	*	1.6	5.5	1.5	.0	.0	.0		562	.0	2.9
-4	.1	.1	*	1.6	4.7	.8	*	*	.0		495	.1	2.8
-5	.1	.1	*	1.6	3.2	.5	*	*	.0		369	*	1.9
-6	.1	.1	*	1.4	1.6	.1	*	*	.0		213	*	1.1
-7/-8	.1	.2	*	1.2	1.6	.1	*	*	.0		210	*	1.3
-9/-10	.0	.1	*	.9	.3	*	*	*	.0		103	.0	1.0
-11/-13	*	.2	*	.3	.1	.0	.0	.0	.0		62	*	.2
-14/-16	.0	*	*	.1	*	.0	.0	.0	.0		11	*	.2
TOTAL	3*		37%		2687		218		6			63	6240
		62		1220		1492		22			6283		
PCT	*	1.0	5.9	19.4	45.4	23.7	3.5	.4	.1		100.0	.7	99.3

PERIOD: (OVER-ALL) 1963-1979

TABLE 16

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

N

HGT	1-3	4-10	11-2.	22-33	34-47	48+	PCT
<1	1.5	2.0	.2	.0	.0	.0	3.6
1-2	.2	4.4	2.0	.6	.0	.0	7.0
3-4	.2	2.0	4.6	.5	.0	.0	7.3
5-6	.2	.3	2.5	1.8	.3	.0	4.9
7	.0	.2	1.4	1.5	.1	.0	3.4
8-9	.0	.1	.7	1.8	.5	.0	2.9
10-11	.0	.0	.1	.6	.6	.1	1.2
12	.0	.0	.0	.1	.5	.1	.9
13-16	.0	.0	.0	.0	.1	.0	1.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	9.3	12.1	7.0	2.9	.2	33.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.6	.4	.0	.0	.0	1.5
1-2	.3	3.1	1.6	.0	.0	.0	5.0
3-4	.2	1.9	2.2	.0	.0	.0	4.3
5-6	.1	.2	2.2	.0	.0	.0	2.6
7	.0	.1	1.3	.0	.0	.0	1.4
8-9	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	5.4	7.4	4.8	1.2	.0	20.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.7	.7	.1	.0	.0	3.2
1-2	.4	1.8	1.6	.1	.0	.0	3.7
3-4	.2	1.5	1.4	.0	.0	.0	3.0
5-6	.1	.2	.7	.1	.0	.0	1.1
7	.0	.1	.2	.1	.0	.0	.5
8-9	.0	.0	.1	.1	.0	.0	.3
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	3.3	3.2	.3	.0	.0	8.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.5	.2	.0	.0	.0	.9
1-2	.1	.5	.3	.0	.0	.0	1.0
3-4	.1	.3	.3	.0	.0	.0	.7
5-6	.0	.1	.1	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.5	1.0	.2	.0	.0	2.1

PERIOD 1956M-DEC 1965-1979 JANUARY AREA CODE GULF OF TEHUANTEPEC

TABLE 18 (COUNT) 14.3% 96.9%

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

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1														
1-2														
3-4														
5-6														
7														
8-9														
10-11														
12														
13-16														
17-19														
20-24														
25-29														
30-32														
33-40														
41-48														
49-60														
61-72														
73-96														
97+														
TOT PCT														

HGT	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															
1-2															
3-4															
5-6															
7															
8-9															
10-11															
12															
13-16															
17-19															
20-24															
25-29															
30-32															
33-40															
41-48															
49-60															
61-72															
73-96															
97+															
TOT PCT															

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1								
1-2								
3-4								
5-6								
7								
8-9								
10-11								
12								
13-16								
17-19								
20-24								
25-29								
30-32								
33-40								
41-48								
49-60								
61-72								
73-96								
97+								
TOT PCT								1294

PERIOD 1956M-DEC 1949-1979 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-24	25-29	30-32	33-40	41-48	49-60	61-72	73-96	97+	TOTAL	PEAK HGT
<6																				2122	3
6-7																				1065	6
8-9																				573	6
10-11																				272	6
12-13																				110	6
14+																				60	11
INDET																				723	3
TOTAL																				4968	5
PCT																				100.0	

FEBRUARY

PERIOD: (PRIMARY) 1952-1979
(OVERFALL) 1959-1979

AREA 76 6 GULF OF TEHUANTEPEC
14.1N 94.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG W PCPN PAST H	SMOKE HAZE	SPRAY BLWG SNOW	AG SIG WEA
N	.0	.0	.1	.0	.0	.0	.0	.1	.1	*	.1	.0	2.0	.3	96.6
NE	.1	.0	*	.0	.0	.0	.0	.1	.1	*	.1	.0	1.7	.4	97.7
E	.1	.0	.1	.0	.0	.0	.0	.1	.1	.1	.4	.0	1.7	.0	97.6
SE	.1	.0	*	.0	.0	.0	.0	.1	.0	.0	1.6	.1	1.1	.4	97.1
S	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	1.0	.4	1.2	.0	96.9
SW	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.6	.0	1.6	.3	96.2
W	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.2	.0	1.4	.1	96.3
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.4	.0	1.5	*	97.4
VAR	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.1	.0	.0	.0	.1	.0	.1	.1	.0	1.1	.2	3.0	.4	95.1
TOT PCT	*	*	*	.0	.0	.0	.0	.1	*	*	.4	*	2.1	.2	97.1
TOT OBS:	6731														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG W PCPN PAST H	SMOKE HAZE	SPRAY BLWG SNOW	AG SIG WEA
00E03	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	.1	2.2	.3	97.1
06E09	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.1	1.7	.2	97.6
12E15	.1	.1	.1	.0	.0	.0	.0	.2	.1	.1	1.0	.1	2.2	.2	96.2
18E23	.0	.0	.1	.0	.0	.0	.0	.1	.1	.1	.3	.0	2.0	.2	97.4
TOT PCT	*	*	*	.0	.0	.0	.0	.1	*	*	.4	*	2.1	.2	97.1
TOT OBS:	6946														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)				
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.6	11.0	7.6	4.4	1.9	.3		27.9	14.6	25.7	18.8	22.4	30.2	27.1	34.4	34.1	25.7
NE	3.6	5.9	4.0	3.0	1.3	.2		16.9	15.8	17.4	24.0	15.3	12.1	15.8	19.2	14.0	22.7
E	1.3	3.6	1.8	.5	.1	*		7.5	10.9	6.1	7.9	7.0	3.9	7.1	5.6	7.8	10.0
SE	.9	2.0	.6	*	.0	.0		3.2	8.3	3.2	2.6	2.9	2.3	2.5	3.4	3.9	4.0
S	.8	1.8	.3	*	*	.0		2.9	6.2	4.1	2.6	3.2	2.6	2.0	1.4	2.3	3.5
SW	.2	2.7	.5	*	*	.0		4.1	7.0	6.2	4.3	3.8	5.9	2.2	5.2	3.3	3.8
W	1.7	7.1	1.4	*	*	*		10.4	7.2	10.9	8.1	12.8	7.5	1.5	5.7	8.2	7.9
NW	2.3	9.2	3.4	.4	.2	*		14.9	9.5	13.7	14.1	14.2	15.5	16.4	15.6	15.0	14.1
VAR	.0	.3	.1	.0	.0	.0		.0	.0	.0	.0	.0	.0	.1	.1	.0	.0
CALM	12.3							12.3	.0	10.4	9.5	17.0	14.7	16.7	8.2	7.5	6.3
TOT OBS	1764	3117	1452	648	265	45	7311		10.4	1604	124	1593	177	1512	219	1641	142
TOT PCT	24.2	42.6	20.3	8.9	3.6	.6		100.0		100.0	100.0	100.0	100.0	100.	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	9.1	10.0	5.5	3.5	.6		27.9	14.6	25.2	14.1	24.3	33.3
NE	4.5	5.7	3.6	2.2	.6		16.9	15.8	17.4	15.6	16.2	18.4
E	3.2	3.1	.9	.2	.1		7.5	12.4	6.1	6.6	6.9	6.0
SE	2.1	1.0	.1	*	.0		3.2	8.3	3.1	2.5	3.0	3.4
S	1.8	1.1	*	*	.0		2.9	6.2	4.0	2.2	2.0	2.4
SW	2.3	1.6	.1	*	.0		4.1	7.0	6.4	4.0	2.6	3.4
W	5.8	4.2	.3	*	*		10.4	7.2	10.7	13.1	4.9	8.2
NW	6.9	6.1	1.5	.5	.1		14.9	9.5	14.0	14.3	16.3	14.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	12.3						12.3	.0	10.6	10.6	15.0	3.5
TOT OBS	3628	2402	907	470	111	7318		10.4	1734	1770	1721	2093
TOT PCT	49.6	32.8	12.4	6.4	1.5		100.0		100.0	100.0	100.0	100.0

PERIOD: (PREVIOUS) 1952-1974
(OVER-ALL) 1459-1974

AREA 0106 GULF OF TEHUANTEPEC
14.1N 94.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-5	6-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000-0	16.6	13.0	43.7	20.7	7.5	3.9	.9	10.4	100.0	1734
0600-0	16.8	9.9	42.8	19.5	6.8	3.6	.5	9.7	100.0	1770
1200	15.6	11.6	42.9	18.6	6.4	2.6	.5	9.7	100.0	1721
1800	7.5	12.9	47.1	24.7	6.7	4.3	.6	11.4	100.0	2093
TOT	397	671	3115	1482	648	265	45	10.4		7318
PCT	12.3	11.7	42.5	20.3	8.9	3.6	.6		100.0	

TABLE 5

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

WND DIR	1-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	42.6	24.9	14.6	17.8		3.1
NE	13.6	16.5	13.3	16.2		3.2
E	5.9	10.9	16.1	17.1		3.4
SE	2.3	4.3	6.5	11.1		3.8
S	2.1	4.4	6.4	11.1		3.8
SW	2.9	4.5	6.5	9.9		3.7
W	9.2	13.6	14.9	11.1		3.5
NW	11.2	14.9	11.1	13.3		3.4
VAR	.0	.0	.0	.0		.0
CALM	10.9	11.3	11.4	12.2		3.1
TOT OBS	4460	639	432	672	55 0	1.3
TOT PCT	79.7	11.4	7.7	1.2	1 0.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 2999	3000 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	*	*	*	.1	.4	.2	.1	.0	.1	*	26.6	
NE	*	*	*	.1	.2	.1	.1	*	*	*	16.1	
E	*	.0	*	*	.1	.1	.0	*	.0	.0	7.3	
SE	*	.0	*	.1	*	*	*	*	.0	.0	2.9	
S	*	.0	*	.1	*	*	*	*	*	.0	2.8	
SW	*	.0	.0	*	.1	*	*	*	*	.0	3.7	
W	.0	.0	*	.1	.1	.1	.1	*	.0	.1	10.3	
NW	*	*	*	.1	.2	.2	.1	*	.0	*	13.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	*	.1	.3	.1	*	*	.0	.1	12.5	
TOT OBS	12	3	9	35	82	52	31	4	5	10	5352	5595
TOT PCT	.2	.1	.2	.6	1.5	.9	.6	.1	.1	.2	95.7	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) ≥ 0R >10	≥ 0R >5	≥ 0R >2	≥ 0R >1	≥ 0R >1/2	≥ 0R >1/4	≥ 0R >5CYD	≥ 0R >0
≥ 0R >6500	.3	.3	.3	.3	.3	.3	.3	.3
≥ 0R >5000	.3	.4	.4	.4	.4	.4	.4	.4
≥ 0R >3500	.8	.9	.9	.9	.9	.9	.9	.9
≥ 0R >2000	1.7	1.8	1.9	1.9	1.9	1.9	1.9	1.9
≥ 0R >1000	3.0	3.2	3.3	3.3	3.3	3.3	3.3	3.3
≥ 0R >600	3.5	3.6	3.9	4.0	4.0	4.0	4.0	4.0
≥ 0R >300	3.6	4.0	4.1	4.1	4.1	4.1	4.1	4.1
≥ 0R >150	3.7	4.0	4.1	4.2	4.2	4.2	4.2	4.2
≥ 0R >0	3.8	4.1	4.3	4.3	4.3	4.2	4.4	4.4
TOTAL	217	239	246	252	252	251	253	253

TOTAL NUMBER OF OBS: 5783

PCT FREQ NM <5/8: 95.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
56.7	20.5	10.0	5.7	2.7	1.6	1.2	.9	.4 .2	6026

PERIOD, (PRIMARY) 1952-1979
(OVER-ALL) 1859-1979

AREA 08: GULF OF TEHUANTEPEC
14.1N 94.6W

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	*	*	*	*	.0	.0	*	*	.0	.1	.2	
	TOT %	*	*	*	*	.0	.0	*	*	.0	.1	.2	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
	TOT %	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
1<2	PCP	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
	NO PCP	*	*	.0	*	*	.0	.0	.0	.0	*	.1	
	TOT %	.1	*	.0	*	*	.0	.0	.0	.0	*	.1	
2<5	PCP	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	NO PCP	.2	.1	*	*	*	*	*	.0	.0	*	.6	
	TOT %	.2	.1	*	*	*	*	*	.0	.0	*	.6	
5<10	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	NO PCP	2.1	1.3	.3	.1	.1	.2	.5	.4	.1	.7	5.8	
	TOT %	2.1	1.3	.3	.1	.1	.2	.5	.4	.1	.7	5.8	
10+	PCP	.0	*	*	*	.0	.0	*	.0	.0	.0	*	
	NO PCP	25.5	15.4	7.1	3.1	2.4	3.7	9.9	14.1	.0	11.5	92.3	
	TOT %	25.5	15.4	7.1	3.1	2.4	3.7	9.9	14.1	.0	11.5	92.3	
	TOT OBS												6693
	TOT PCT	27.8	16.8	7.5	3.3	2.6	4.0	10.5	14.9	.0	12.3	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	*	*	*	.1	.1	
	4-10	*	.0	*	.0	*	.0	*	*	*		.1	
	11-21	*	.0	*	.0	*	.0	*	*	*		.1	
	22+	*	.0	*	.0	*	.0	*	*	*		.1	
	TOT %	*	*	*	*	*	.0	*	*	*	.1	.2	
1/2<1	0-3	.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	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
1<2	0-3	*	.0	.0	.0	*	.0	.0	.0	.0	*	*	
	4-10	*	.0	.0	.0	*	.0	.0	.0	.0		*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	.0	*	*	.0	.0	.0	.0	*	*	
2<5	0-3	*	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	*	*	.0	.0	*	.0	*	*	*		*	
	11-21	*	*	.0	.0	*	.0	*	*	*		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	*	*	*	.0	*	*	*	*	.1	
5<10	0-3	.1	.1	.1	.0	*	.0	.1	.1	.1	.7	1.2	
	4-10	.6	.2	.1	.1	*	.1	*	.2	.1		1.6	
	11-21	.3	.2	.1	*	*	*	*	.1	.1		1.0	
	22+	1.0	.2	*	.0	.0	.0	*	*	.0		1.4	
	TOT %	2.0	1.2	.3	.1	.1	.2	.2	.5	.4	.7	5.7	
10+	0-3	2.4	1.5	1.1	.4	.3	.3	1.2	2.1	.6	11.5	22.6	
	4-10	10.5	5.6	3.2	1.4	1.3	2.4	6.2	7.7	.6		46.2	
	11-21	7.3	6.3	2.2	.3	.1	.5	1.4	3.2	.6		19.4	
	22+	5.6	3.8	.6	*	*	*	*	.9	.6		11.6	
	TOT %	25.7	15.5	7.1	2.0	1.8	3.4	9.6	13.9	2.0	11.5	93.2	
	TOT OBS												7134
	TOT PCT	28.1	16.9	7.5	3.3	2.6	4.1	10.4	14.7	.0	12.3	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1952-1976
(COMP-ALL) 1956-1976

TABLE 1a

AREA 70F8 GULF OF TEHUANTEPEC
14.1N 94.9W

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,KM >=/&) AND OCCURRENCE OF VIS <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 2999	3000 4999	5000 6499	6500 7999	8000+	TOTAL OBS	VIS <5/8 AND HGT	TOTAL OBS
00-03	.2	.1	.1	.3	1.1	.7	.5	.2	.0	.1	3.4	94.6	1521
06-09	.1	.0	.1	.3	1.2	.8	.3	.0	.2	.2	3.1	94.9	1435
12-15	.3	.1	.2	1.1	1.8	1.1	.5	.1	.1	.4	5.6	94.2	1424
18-21	.2	.0	.2	.8	1.5	1.1	.6	.0	.1	.1	4.7	95.2	1637
TOT	12	3	9	36	85	56	31	6	5	12	251	5740	6017
PCT	.2	.0	.1	.6	1.4	.9	.5	.1	.1	.2	4.2	95.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NMI) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00-03	.1	.0	.1	1.0	4.1	92.7	1759
06-09	.1	.0	.1	.6	5.5	93.3	1796
12-15	.3	.1	.4	1.3	6.6	91.7	1757
18-21	.2	.0	.1	.4	4.9	94.3	2070
TOT	13	3	13	55	432	6661	7375
PCT	.2	.0	.2	.7	5.9	93.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NMI) AND/OR CEILING HGT (FEET,KM >=/&) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND>=	VIS <5/8 AND 5+	TOTAL OBS
00-03	.2	.3	1.3	2.6	96.1	1965
06-09	.1	.2	1.2	2.7	96.1	1369
12-15	.3	.8	2.4	4.7	93.3	1354
18-21	.3	.6	1.5	3.6	94.4	1570
TOT	13	28	93	189	5501	5743
PCT	.2	.5	1.6	3.3	95.8	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
50/54	.0	.0	.0	.1	.2	.1	.0	.0	20	.4
55/59	.0	.0	*	.6	1.5	1.9	.5	*	262	4.6
60/64	.0	*	.2	.7	7.5	19.5	10.0	2.1	2276	40.0
65/69	.0	.0	.1	.5	2.9	15.1	17.2	3.8	2416	42.5
70/74	.*	.0	.1	.2	1.3	3..	4.1	2.5	634	11.2
65/69	.0	.*	.0	*	.1	.5	.4	.2	75	1.3
80/84	.0	.0	.0	.0	.0	.0	*	.0	1	*
TOTAL	0	1	15	117	729	2234	1637	661	5684	100.0
PCT	.0	*	.3	2.1	12.7	49.0	32.3	11.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.1	.1	.0	*	*	*	*	.1	.0	*
	1.0	.5	.4	.3	.2	.2	.6	.8	.0	.5
	6.5	5.7	3.6	1.5	1.4	2.3	6.1	6.3	.0	4.8
	12.4	7.6	2.9	1.3	1.1	1.5	3.8	8.1	.0	6.1
	4.8	2.7	.8	.2	.2	.2	.2	1.1	.0	.9
	.7	.4	*	.0	.0	.0	.0	.1	.0	.1
	*	.0	.0	.0	.0	.0	.0	.0	.0	.0
	27.5	17.3	7.8	3.3	2.9	4.8	10.8	24.4	.0	12.5

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00-03	93	89	84	83	71	70	65	79.4	1760
06-09	88	84	82	79	72	69	66	77.3	1922
12-15	87	83	81	78	73	68	65	77.2	1758
18-21	93	90	86	81	73	70	66	80.5	2129
TOT	93	88	83	79	72	69	65	78.4	7469

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00-03	.0	2.4	16.1	43.2	28.0	8.4	77	1449
06-09	.0	1.4	7.4	32.8	37.0	16.4	81	1432
12-15	.0	1.3	6.2	23.5	43.1	17.4	81	1419
18-21	.0	4.1	21.6	44.1	24.4	5.8	75	1604
TOT	0	139	601	2342	1602	780	78	5684

FEBRUARY

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1859-1979

AREA 0068 GULF OF TEHUANTEPEC
14.1N 94.9W

TABLE 17

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

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	# FOG	PCT FOG
20/22	.0	.0	.0	.0	.0	.0	.0	*	.0	1	.0	*
17/19	.0	.0	.0	.0	.0	.0	*	.3	.0	1	.0	*
14/16	.0	.0	.0	.0	.0	.1	*	.0	.0	8	.0	.1
11/13	.0	.0	.0	*	.0	.1	.1	.1	*	29	.0	.5
9/10	.0	.0	.0	*	.2	.3	.2	.2	*	57	.0	.5
7/8	.0	.0	.1	.2	.7	.6	.3	.3	.0	130	.0	4.1
6	.0	*	*	.2	.4	.5	.2	*	.0	86	.0	1.4
5	.0	.0	.1	.3	.6	.8	.4	.1	.0	171	.0	2.7
4	.0	.0	.2	.5	1.1	1.5	.7	*	.0	259	.0	4.1
3	.0	*	.2	.6	1.2	1.2	.7	.0	.0	244	.0	3.9
2	.0	*	.4	1.1	2.4	3.3	.6	*	.0	489	*	7.8
1	.0	*	.4	1.2	2.4	3.2	.5	.0	.0	486	*	7.7
0	.0	.1	.5	1.5	5.0	5.1	.3	.0	.0	797	.1	12.5
-1	.0	.1	.4	1.5	5.1	3.6	.1	.0	.0	662	*	10.4
-2	.0	*	.4	1.7	7.4	3.8	*	.0	.0	839	.1	13.3
-3	.0	.0	.3	1.4	5.5	2.1	*	.0	.0	585	*	9.3
-4	.0	*	.3	1.6	5.0	.9	*	.0	.0	466	*	7.7
-5	.0	.1	.2	1.2	3.3	.6	.0	.0	.0	339	*	5.4
-6	.0	*	.2	1.3	1.8	.2	.0	.0	.0	221	*	3.5
-7/-8	.0	*	.4	1.7	1.2	.2	.0	.0	.0	218	*	3.4
-9/-10	*	.1	.5	.7	.4	*	.0	.0	.0	102	.0	1.6
-11/-13	.0	.1	.3	.2	*	.0	.0	.0	.0	31	.0	.6
-14/-16	.0	*	*	*	*	.0	.0	.0	.0	7	.0	.1
TOTAL	1	38	316	856	2749	1769	287	41	2	6261	25	6236
PCT	*	.6	5.0	16.9	43.9	28.3	4.6	.7	*	100.0	.4	99.6

PERIOD: (OVER-ALL) 1963 1979

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	3.1	.2	.0	.0	.0	4.2
1-2	1.2	5.1	1.1	.0	.0	.0	7.4
3-4	.1	2.3	2.4	.6	.0	.0	5.4
5-6	.0	.9	1.9	1.1	.2	.0	4.1
7	.0	.0	1.4	1.3	.3	.0	3.0
8-9	.0	.0	.2	1.0	.6	.0	1.9
10-11	.0	.0	.2	.6	.4	.0	1.2
12	.0	.0	.1	.2	.2	.0	.5
13-16	.0	.0	.1	.4	.4	.3	1.1
17-19	.0	.0	.0	.1	.0	.1	.1
20-22	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.0	.1	.0	.1
26-32	.0	.0	.0	.0	.1	.0	.1
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.2	11.4	7.5	5.2	2.4	.4	29.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.3	.2	.0	.0	.0	2.3
1-2	.6	2.6	1.4	.0	.0	.0	4.6
3-4	.1	1.7	2.1	.5	.0	.0	4.3
5-6	.1	.3	1.3	.7	.2	.0	2.5
7	.0	.0	.8	.9	*	.0	1.8
8-9	.0	.0	.2	.9	.3	.0	1.4
10-11	.0	.0	*	.3	.6	.1	1.1
12	.0	.0	.0	.5	.2	.1	.8
13-16	.0	.0	.1	.3	.2	.0	.6
17-19	.0	.0	.0	.0	.2	*	.3
20-22	.0	.0	.0	.0	.2	.0	.2
23-25	.0	.0	.0	.0	.2	.0	.2
26-32	.0	.0	.0	.0	.1	.2	.3
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	5.9	6.2	4.2	2.0	.3	20.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.0	.4	.0	.0	.0	1.6
1-2	.3	1.7	.3	.0	.0	.0	2.3
3-4	.0	.8	1.1	.0	.0	.0	1.9
5-6	.0	.1	.2	.0	.0	.0	.3
7	.0	.0	.3	.1	.0	.0	.4
8-9	.0	.0	.1	.0	.1	.0	.1
10-11	.0	.0	.0	.1	.1	.0	.1
12	.0	.0	.0	.0	.0	.1	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	3.7	2.0	.2	.1	.1	7.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.9	.0	.0	.0	.0	1.1
1-2	.4	1.0	.1	.0	.0	.0	1.4
3-4	.0	.3	.1	.0	.0	.0	.4
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.1	.1	.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	2.3	.4	.0	.0	.0	3.3

FEBRUARY

PERIOD: (OVER-ALL) 1963-1979 — AREA C'06 GULF OF TEHUANTE C 14.1N 94.9W

TABLE 16 (CONT)

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

S

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

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	2.1	*	.0	.0	.0	2.8
1-2	.8	3.3	.6	.6	.0	.0	4.6
3-4	.0	1.4	1.0	.4	.0	.0	2.4
5-6	.0	.2	.8	.1	*	.0	1.1
7	.0	.0	.5	.3	*	.0	.9
8-9	.0	.0	.1	.1	*	.0	.2
10-11	.0	.0	.1	.2	.0	.0	.3
12	.0	.0	.1	.1	*	.0	.2
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	7.0	3.1	.8	.2	.0	12.5

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.4	.0	.0	.0	.0	2.1
1-2	.5	3.6	.4	.0	.0	.0	4.7
3-4	.0	.9	.2	.0	.0	.0	1.5
5-6	.0	.2	.2	.0	.0	.0	.4
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	6.3	1.3	.0	.1	.0	8.9

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.6	2.1	*	.0	.0	.0	2.8	
1-2	.8	3.3	.6	.6	.0	.0	4.6	
3-4	.0	1.4	1.0	.4	.0	.0	2.4	
5-6	.0	.2	.8	.1	*	.0	1.1	
7	.0	.0	.5	.3	*	.0	.9	
8-9	.0	.0	.1	.1	*	.0	.2	
10-11	.0	.0	.1	.2	.0	.0	.3	
12	.0	.0	.1	.1	*	.0	.2	
13-16	.0	.0	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.4	7.0	3.1	.8	.2	.0	12.5	87.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	16.3	11.1	.4	.0	.0	.0	29.8	
1-2	5.4	19.1	4.0	.0	.0	.0	28.6	
3-4	.2	7.5	7.3	1.0	.0	.0	16.1	
5-6	.1	1.6	4.4	1.9	.4	.0	8.4	
7	.0	.2	3.1	2.6	.4	.0	6.4	
8-9	.0	.1	.4	2.0	1.0	.0	3.5	
10-11	.0	.0	.2	1.2	1.0	.1	2.6	
12	.0	.0	.1	.7	.4	.1	1.5	
13-16	.0	.0	.1	.7	.7	.3	1.9	
17-19	.0	.0	.0	.1	.1	.1	.4	
20-22	.0	.0	.0	.0	.2	.0	.2	
23-25	.0	.0	.0	.0	.2	.0	.2	
26-32	.0	.0	.0	.0	.1	.1	.3	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1339
TOT PCT	24.1	39.8	20.6	10.2	4.6	.7	100.0	

PERIOD: (OVER-ALL) 1949-1979

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	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	16.5	12.2	4.8	2.7	1.3	.8	.2	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	2296	3
6-7	.2	2.3	4.9	5.4	2.9	1.8	1.1	.7	.7	.3	.1	*	.1	*	.0	.0	.0	.0	.0	1012	6
8-9	*	.8	1.6	1.8	1.3	1.1	.9	.4	.7	.3	.2	.2	*	.0	.0	.0	.0	.0	.0	455	8
10-11	.0	.6	.6	.6	.6	.4	.4	.3	.3	.2	.1	.1	*	.0	.0	.0	.0	.0	.0	217	8
12-13	.0	.3	.3	.3	.3	.2	.2	.1	.1	.1	.1	.1	*	.0	.0	.0	.0	.0	.0	95	8
313	.0	.0	.0	.1	.2	.2	.1	.1	.2	.0	.1	.1	*	.0	.0	.0	.0	.0	.0	56	12
INDET	11.4	1.7	1.2	.6	.3	.1	.2	.1	.1	.0	*	.0	*	.0	.0	.0	.0	.0	.0	780	1
TOTAL	945	1077	1033	687	407	246	155	89	121	52	36	21	11	2	0	0	0	0	0	4911	4
PCT	19.2	21.9	21.0	14.0	8.3	5.0	3.2	1.8	2.5	1.1	.7	.4	.2	*	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL: 1872-1979

AREA 00'8 GULF OF TEHUANTEPEC
14.1N 94.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG W/O PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	*	.6	.0	.0	.0	.0	.0	*	.3	.1	.1	.0	5.3	.5		94.6
NE	.2	.1	.0	.0	.0	.0	.0	.3	.0	.1	.2	.0	2.6	.2		96.5
E	.5	.0	.0	.0	.0	.0	.0	.5	.2	.2	.3	.0	2.8	.0		95.9
SE	.1	.5	.0	.0	.0	.0	.0	.6	.0	.1	.5	.0	4.5	.0		94.3
S	.3	.0	.0	.0	.0	.0	.0	.3	.0	.3	1.3	.7	3.3	.0		94.2
SW	.0	.0	.0	.0	.0	.0	.0	.0	.2	.6	.6	.0	2.2	.2		95.9
W	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	.3	.0	2.0	.2		97.0
NW	.1	.1	.1	.0	.0	.0	.0	.2	.2	.2	.3	.0	3.2	.1		95.9
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	.2	.3	2.1	.0	8.1	.0		89.3
TOT PCT	.1	*	*	.0	.0	.0	.0	.1	.1		.6	*	4.0	.2		94.8
TOT OBS:	7624															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG W/O PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	.1	.0	.0	.0	.0	.0	.0	.1	.1	.0	.3	.1	4.3	.3		94.6
06609	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.8	.0	3.6	.2		94.9
12615	.2	.1	.1	.0	.0	.0	.0	.3	.2	.5	.9	.0	4.0	.1		94.1
18621	.1	.1	.0	.0	.0	.0	.0	.2	*	.1	.5	*	4.0	.2		95.0
TOT PCT	.1	*	*	.0	.0	.0	.0	.1	.1	.2	.6	*	4.0	.2		94.7
TOT OBS:	7689															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	8.3	5.2	3.4	1.1	.2		21.0	13.9	18.9	19.9	16.4	19.3	22.8	23.4	24.5	28.5
NE	1.0	4.3	3.3	1.9	.6	.1		11.0	14.5	10.8	10.5	8.5	10.1	10.4	13.2	13.1	16.2
E	1.0	3.2	1.5	.3	.1	.0		6.0	9.3	6.0	6.6	6.5	5.5	5.5	3.9	6.5	4.9
SE	.7	1.8	.2	*	.0	.0		2.7	6.0	3.4	2.5	2.8	2.6	1.7	1.5	3.1	3.1
S	1.1	2.4	.3	.1	.0	.0		3.8	6.3	5.4	5.8	4.5	1.8	2.4	3.4	3.4	2.2
SW	1.5	4.6	.6	*	.0	.0		6.7	6.5	9.4	7.9	7.7	4.8	6.3	6.1	5.7	6.0
W	3.3	12.0	2.3	*	.0	.0		17.7	7.0	19.1	23.3	19.3	16.4	17.7	15.0	15.6	15.0
NW	2.8	10.7	2.7	.6	.2	*		17.1	8.3	14.7	12.0	15.4	21.7	14.4	21.0	18.4	15.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	13.8							13.8	.0	12.2	16.5	19.0	18.6	15.8	12.1	9.9	6.8
TOT OBS	2296	3884	1328	522	162	23	8215		8.6	1848	121	1732	210	1656	223	2206	219
TOT PCT	27.9	47.3	16.2	6.4	2.0	.3		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	7.2	6.8	4.3	2.2	.5		21.0	13.9	16.7	16.7	22.9	24.9
NE	2.8	4.3	2.6	1.3	.1		11.0	14.5	10.8	8.6	10.8	13.4
E	2.8	2.4	.7	.1	*		6.0	9.3	6.1	6.4	5.3	6.3
SE	1.8	.9	*	.0	.0		2.7	6.0	3.4	2.6	1.7	3.1
S	2.5	1.3	*	*	.0		3.8	6.3	5.4	4.2	2.5	3.3
SW	4.1	2.5	.1	*	.0		6.7	6.5	9.3	7.4	4.5	5.9
W	9.4	7.8	.4	*	.0		17.7	7.0	19.3	19.0	17.4	15.4
NW	9.1	6.4	1.2	.4	*		17.1	8.3	14.6	16.0	19.6	18.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	13.8						13.8	.0	12.5	18.6	15.3	9.6
TOT OBS	4414	2649	767	331	54	8215		8.6	1969	1942	1879	2425
TOT PCT	53.7	32.2	9.3	4.0	.7		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1955-1979
(OVER-ALL) 1872-1979

AREA CODE GULF OF TEHUANTEPEC
14.1N 94.4W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-5	6-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00-03	12.5	15.0	44.8	15.3	6.2	1.6	.5	8.6	100.0	1969
06-09	16.9	13.3	46.9	13.9	4.6	1.6	.2	7.7	100.0	1942
12-15	15.3	12.5	46.7	17.5	6.3	1.6	.2	8.6	100.0	1679
18-21	9.6	15.4	46.9	17.7	7.7	2.4	.2	9.3	100.0	2425
TOT	1136	1160	3864	1326	522	184	23	8.6		8215
PCT	13.8	14.1	47.0	16.2	6.4	2.3	.3		100.0	

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 OR OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	15.3	5.1	2.2	.5		1.7
NE	7.8	1.4	1.1	.4		1.7
E	4.5	.9	.6	.2		1.6
SE	1.7	.4	.4	.1		2.3
S	2.6	.5	.5	.2		2.0
SW	4.4	1.2	.7	.2		2.0
W	17.1	3.9	1.9	.3		1.6
NW	11.4	3.1	1.4	.4		1.9
VAR	.0	.0	.0	.0		.0
CALM	17.3	2.0	1.3	.3		1.5
TOT OBS	4372	1032	650	158	6221	1.8
TOT PCT	70.3	16.6	10.5	2.5	100.0	

TABLE 6

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

WIND DIR	100 149	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	.1	.0	*	.2	.3	.2	.1	.1	*	.1	20.1	
NE	.0	*	*	*	.2	.1	.1	*	.0	*	10.1	
E	*	*	.0	*	.1	*	*	*	.1	.0	5.8	
SE	*	*	*	*	.1	*	*	.1	*	.0	2.4	
S	.1	*	*	.1	.1	*	*	*	.0	*	3.7	
SW	*	.0	*	.1	.1	.1	*	*	*	.0	6.1	
W	*	.0	.1	.2	.3	.2	.1	*	*	*	17.2	
NW	*	*	*	.2	.2	.1	.1	*	*	*	15.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	*	*	.1	.1	.1	.1	*	*	*	13.2	
TOT OBS	19	8	16	56	68	65	38	9	13	16	5863	6221
TOT PCT	.3	.1	.2	.9	1.1	1.0	.6	.1	.2	.3	94.6	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >5040	= OR >0
= OR >6500	.5	.5	.5	.5	.5	.5	.5	.5
= OR >5000	.6	.6	.6	.6	.6	.6	.6	.6
= OR >3500	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
= OR >2000	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2
= OR >1000	3.4	3.6	3.6	3.6	3.6	3.6	3.6	3.6
OR >600	4.1	4.6	4.7	4.7	4.7	4.7	4.7	4.7
= OR >300	4.4	4.8	4.9	4.9	4.9	4.9	4.9	4.9
= OR >150	4.8	4.9	5.0	5.0	5.0	5.0	5.0	5.0
= OR > 0	4.5	5.1	5.2	5.2	5.2	5.2	5.3	5.3
TOTAL	292	329	335	347	347	337	342	343

TOTAL NUMBER OF OBS: 6423 PCT FREQ NM <5/8: 94.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
44.7	21.1	13.0	8.2	6.1	3.4	1.8	1.0	.5	.2	6733

MARCH

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1872-1979

AREA CODE GULF OF TEHUANTEPEC
14.1N 94.4W

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	*	*	.0	*	*	*	*	.0	.1	.2	
	TOT %	.0	*	*	.0	*	*	*	*	.0	.1	.2	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	*	.0	.0	.0	*	*	.0	.0	*	*	
	TOT %	.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	*	.1	
	TOT %	*	.0	*	*	.0	.0	.0	*	.0	*	.1	
2<5	PCP	.0	.0	*	*	*	.0	.0	.0	.0	.0	*	
	NO PCP	.1	*	*	.0	.0	.1	*	.1	.0	.1	.4	
	TOT %	.1	*	*	*	*	.1	*	.1	.0	.1	.5	
5<10	PCP	*	*	.0	*	*	.0	.0	.0	.0	.0	.1	
	NO PCP	1.7	.7	.3	.7	.2	.3	.7	.8	.0	1.4	6.4	
	TOT %	1.8	.7	.3	.7	.2	.3	.7	.8	.0	1.4	6.4	
10+	PCP	.0	*	*	.0	.0	.0	.0	*	.0	.0	.1	
	NO PCP	19.2	10.3	5.4	2.5	3.7	6.3	17.0	16.1	.0	11.9	92.4	
	TOT %	19.2	10.3	5.4	2.5	3.7	6.3	17.0	16.1	.0	11.9	92.5	
	TOT OBS												76 6
	TOT PCT	21.1	11.1	6.1	3.7	3.9	6.7	17.8	17.0	.0	13.4	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	.1	*	.0	.0	.0	*	*	.0	*	.1	
	4-10	*	*	.0	*	*	*	*	*	.0		.1	
	11-21	*	*	.0	*	*	*	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	.0	.0	.0	*	*	.0	.0	.1	.2	
1/2<1	0-3	.1	.0	.0	.0	.0	.0	.1	.0	.0	*	*	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		*	
	11-21	.0	*	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	TOT %	.0	*	.0	.0	.0	*	*	.0	.0	*	*	
1<2	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	*	.1	
	4-10	.1	*	*	*	*	.0	*	.0	.0		*	
	11-21	.0	*	.0	*	.0	.0	.0	.0	.0		*	
	22+	*	*	*	.0	.0	.0	.0	.0	.0		*	
	TOT %	*	*	*	*	.0	.0	*	*	.0	*	.1	
2<5	0-3	*	.1	.0	.0	.0	*	*	.0	.0	.1	.2	
	4-10	*	*	*	*	*	*	.1	*	.0		.3	
	11-21	*	*	*	.0	.0	*	*	*	.0		.1	
	22+	.1	.1	.1	.0	*	*	*	*	.0		.2	
	TOT %	.2	.1	.1	*	*	*	.1	.1	.0	.1	.7	
5<10	0-3	.1	.1	.1	*	*	*	*	*	.0	.1	.4	
	4-10	.4	.1	.1	.1	.2	.2	.2	.2	.0		1.6	
	11-21	.3	.2	*	*	*	*	.2	.2	.0		.9	
	22+	.0	*	*	*	.0	.0	.0	.1	.0		.1	
	TOT %	1.8	.7	.3	.2	.2	.2	.5	.5	.0	1.3	6.3	
10+	0-3	.6	.9	.9	.7	1.0	1.4	3.1	2.6	.1	2.2	25.3	
	4-10	7.9	4.1	3.0	1.7	2.3	4.2	11.5	10.2	.6		44.9	
	11-21	4.6	3.0	1.5	.2	.3	.6	2.3	2.6	.0		15.2	
	22+	1.8	2.1	.3	*	.1	*	*	.7	.0		7.1	
	TOT %	19.2	10.2	5.7	2.5	3.6	6.2	16.9	16.1	.0	11.1	92.5	
	TOT OBS												4035
	TOT PCT	21.2	11.0	6.1	3.6	3.9	6.6	17.7	17.1	.0	13.7	100.0	

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1672-1979

AREA 0068 GULF OF TEHUANTEPEC
14.1N 94.9W

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00E03	.2	.1	.2	.5	1.9	.7	.2	.1	.2	.3	4.3	95.7	1722
06E09	.2	.0	.2	.7	.7	.7	.7	.1	.3	.3	3.9	96.1	1526
12E15	.5	.3	.3	1.5	1.9	1.5	.6	.3	.1	.2	7.1	92.9	1539
18E21	.3	.2	.2	.8	1.6	1.0	.6	.2	.2	.2	5.4	94.6	1926
TOT	19	8	16	56	104	65	35	9	14	17	347	6370	6717
PCT	.3	.1	.2	.8	1.5	1.0	.6	.1	.2	.3	5.2	94.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.1	.0	.1	.5	5.4	93.8	2009
06E09	.1	.1	.2	1.0	7.2	91.4	1966
12E15	.3	.1	.2	.8	7.6	91.0	1899
18E21	.4	*	.1	.7	5.5	93.3	2433
TOT	19	5	14	62	531	7678	8307
PCT	.2	*	.2	.7	6.4	92.4	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND/+	NM <5/8 AND 5+	TOTAL OBS
00E03	.2	.5	1.5	3.4	95.1	1663
06E09	.2	.5	2.3	2.8	95.0	1466
12E15	.5	1.2	3.1	4.8	92.1	1459
18E21	.4	.8	2.0	4.1	93.9	1835
TOT	20	49	140	242	6041	6423
PCT	.3	.8	2.2	3.8	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
95/99	.0	.0	.0	*	*	.1	.0	.0	2	*
90/94	.6	.0	*	.2	.6	.2	.1	.0	66	1.1
85/89	.0	.0	.1	.7	4.3	5.2	1.2	.2	726	11.7
80/84	.0	.0	.1	.6	6.0	28.9	17.5	3.0	3624	58.2
75/79	.0	.0	*	.1	1.3	7.8	10.9	4.4	1526	24.5
70/74	.0	.0	.0	*	.5	1.2	1.4	1.0	260	4.2
65/69	.0	0	.0	.0	*	.1	.1	.1	22	.4
TOTAL	0	0	13	113	920	2703	1938	539	6226	100.0
PCT	.0	.0	.2	1.8	14.8	43.4	31.1	8.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	*	*	.0	*	.0	.0	.0
.2	.1	.1	.1	*	.1	.3	.2	.0	.2
1.6	1.0	.6	.5	.5	.8	2.7	2.1	.0	1.5
9.6	5.0	3.7	1.8	2.6	4.6	12.1	10.3	.0	8.5
7.5	3.8	1.2	.3	.6	1.1	3.2	3.6	.0	3.2
1.6	.9	.3	.1	*	.1	.1	.5	.0	.6
.3	*	.0	.0	.0	.0	.0	*	.0	*
21.0	10.8	6.1	2.8	3.8	6.6	18.5	16.8	.0	14.0

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	96	90	86	82	76	72	65	81.8	7038
06E09	94	87	84	80	74	70	67	79.8	2011
12E15	89	84	83	80	73	70	66	79.1	1914
18E21	95	91	89	83	76	72	65	82.6	2467
TOT	96	93	86	81	75	70	65	80.9	8410

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	2.5	20.9	46.7	24.5	5.4	75	1620
06E09	.0	.7	6.6	40.9	38.8	13.0	80	1510
12E15	.0	.5	5.7	37.6	43.2	13.1	81	1494
18E21	.0	3.8	23.4	47.8	20.8	4.2	74	1838
TOT	0	126	953	7814	2011	556	78	6462

PERIOD: (PRIMARY) 1951-1975 — AREA 04/6 GULF OF TEHUANTEPEC
(OVER-ALL) 1872-1979 — 14-15N 94-95W

TABLE 17

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

AIR-SEA TMP DIF	65 64	69 68	73 72	77 76	81 80	85 84	89 88	392 92		T T	* FOG	OC FOG
23/25	.0	.0	.0	.0	.0	*	.0	.0		1	.0	*
20/22	.0	.0	.0	.0	.0	*	.0	.0		1	.0	*
17/19	.0	.0	.0	.0	*	.0	.0	.0		1	.0	*
14/16	.0	.0	.0	*	.1	.1	.1	*		10	.0	.2
11/13	.0	.0	*	.1	.1	.2	.1	.1		44	*	.2
9/10	.0	.0	*	.1	.1	.2	.2	.1		62	*	.2
7/8	.0	*	*	.1	.2	.1	.3	.1		132	.0	1.6
6	.0	.0	.1	.2	.1	.2	.3	*	.0	98	.0	1.0
5	.0	*	.2	.2	.6	1.3	.3			216	.0	1.0
4	.0	*	.2	.2	.6	1.4	1.4	.2	.0	273	.0	1.0
3	.0	.1	.2	.2	.6	1.6	1.6	.2	.0	420	.0	1.0
2	*	.1	.2	.3	1.6	3.7	3.7	*	*	474	.0	1.0
1	.0	.1	.2	.4	2.8	4.4	3.3	.2	.0	570	.0	1.0
0	.0	.1	.2	.4	3.6	6.7	3.2	*	*	1261	.1	2.6
-1	*	.1	.2	.4	3.3	7.4	.6	.3	.0	894	.1	12.2
-2	*	.2	.2	.7	5.3	6.6	.2	.3	.0	956	.1	13.1
-3	.0	.1	.2	.4	4.2	4.1	.1	.3	.0	653	.1	9.0
-4	.0	.2	.2	.2	4.3	2.7	*	.3	.0	569	.1	7.8
-5	.0	.1	.1	.6	3.0	1.4	*	.2	.0	372	.1	5.1
-6	*	.1	.1	.6	1.7	.4	.1	.2	.0	214	.0	3.0
-7/-8	*	.1	.1	.4	1.2	.2	.1	.0	.0	177	.0	2.5
-9/-10	*	.1	.1	.4	.2	*	.0	.0	.0	61	.0	.8
-11/-13	*	.2	.1	*	.0	.0	.0	.0	.0	26	.0	.4
-14/-16	*	*	.0	.0	.0	.0	.0	.0	.0	4	.0	.1
TOTAL	11	531	3264	1.9					.0		.0	7175
		131	2359	796		16	7619					
PCT	.2	1.8	7.4	32.7	45.2	11.1	1.5	.2		100.0	.0	99.9

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	1.7	.1	.0	.0	.0	2.8
1-2	.5	5.6	.7	.0	.1	.0	6.9
3-4	.1	1.6	2.1	.3	.0	.0	4.1
5-6	.0	.2	2.0	.6	.1	.0	3.1
7	.0	.1	1.4	1.3	.1	.1	2.8
8-9	.0	.0	.4	1.0	.5	.0	2.0
10-11	.0	.0	.2	.5	.1	.1	1.2
12	.0	.0	.1	.3	.1	.1	.5
13-16	.0	.0	.1	.3	.1	.1	.8
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.1	.1	.2
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	9.3	7.1	4.5	1.4	.4	24.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	.0	.0	.0	.0	.0	.8
1-2	.3	3.0	.8	.0	.0	.0	4.1
3-4	.0	1.2	1.6	.4	.0	.0	3.2
5-6	.0	.2	.6	.4	.1	.0	1.3
7	.0	.1	.4	.3	.1	.0	.9
8-9	.0	.0	.2	.2	.1	.0	.5
10-11	.0	.0	.1	.1	.0	.0	.3
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	4.5	2.9	1.1	.2	.0	9.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.9	.0	.0	.0	.0	1.2
1-2	.2	1.6	1.0	.0	.0	.0	2.5
3-4	.0	.7	1.0	.0	.0	.0	1.7
5-6	.0	.2	.5	.1	.0	.0	.9
7	.0	.1	.2	.1	.0	.0	.4
8-9	.0	.0	.1	.1	.0	.0	.2
10-11	.0	.0	.0	.1	.0	.0	.2
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	3.5	1.3	.3	.0	.0	5.7

SE

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

PERIOD: (OVER-ALL) 1963-1979 MARCH AREA 6°06 GULF OF TEHUANTEPEC

TABLE 18 (CONT) 14.1N 94.9W

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.4	.1	.0	.0	.0	.9
1-2	.1	.6	.4	.0	.0	.0	1.4
3-4	.0	.3	.1	.0	.0	.0	.4
5-6	.0	.1	.1	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	1.7	.6	.1	.0	.0	2.9

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	3.4	.5	.0	.0	.0	5.7
1-2	.3	2.4	.7	.0	.0	.0	3.0
3-4	.3	.5	.3	.0	.0	.0	1.1
5-6	.0	.0	.0	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	6.3	2.1	.1	.0	.0	10.3

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	1.6	.0	.0	.0	.0	2.7
1-2	.5	6.4	.8	.0	.0	.0	8.0
3-4	.0	1.1	.4	.1	.0	.0	1.6
5-6	.0	.3	.3	.0	.0	.0	.6
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.1	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	9.3	2.4	.1	.0	.0	13.3

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.6	2.0	.0	.0	.0	.0	3.5	
1-2	.6	5.5	.6	.0	.0	.0	6.7	
3-4	.2	2.4	1.6	.2	.0	.0	4.4	
5-6	.0	.2	.4	.2	.1	.0	.8	
7	.0	*	.5	.3	.1	*	.9	
8-9	.0	.1	.2	.1	.0	.0	.5	
10-11	.0	.0	.1	.1	.0	.0	.2	
12	.0	.0	*	*	.0	.0	*	
13-16	.0	.0	.0	*	.0	.0	*	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.4	10.1	3.4	.4	.1	*	17.0	87.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	19.0	8.5	.2	.0	.0	.0	27.7	
1-2	3.9	26.4	4.4	.0	.1	.0	34.8	
3-4	.7	7.9	7.2	.8	.6	.0	16.6	
5-6	.0	1.0	4.0	1.5	.3	.0	6.8	
7	.0	.3	2.5	2.4	.6	.1	6.0	
8-9	.0	.1	1.5	1.5	.2	.0	3.3	
10-11	.0	.0	.8	1.0	.3	.1	2.2	
12	.0	.0	.1	.6	.1	.1	.8	
13-16	.0	.0	.1	.5	.6	.2	1.4	
17-19	.0	.0	.0	.0	.1	.0	.1	
20-22	.0	.0	.0	.0	.2	.1	.3	
23-25	.0	.0	.0	.0	.1	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								3437
TOT PCT	23.7	44.4	20.7	8.2	2.5	.6	100.0	

PERIOD: (OVER-ALL) 1949-1979 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	6.1	19.1	13.7	4.6	1.5	.8	.4	.2	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	2674	3
6-7	.2	2.6	5.3	4.6	2.3	1.4	.7	.5	.5	.2	*	*	*	.0	.0	.0	.0	.0	.0	981	5
8-9	.1	1.4	2.1	1.6	1.2	.6	.6	.3	.7	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	490	6
10-11	.0	.9	.7	.7	.5	.3	.3	.3	.4	*	.1	*	*	.0	.0	.0	.0	.0	.0	222	7
12-13	.0	.0	.9	.3	.2	.1	.1	.1	.1	*	.1	.0	*	.0	.0	.0	.0	.0	.0	108	7
>13	.0	.0	.0	.3	.2	.1	.1	.1	.2	*	.1	*	*	.0	.0	.0	.0	.0	.0	57	11
INDET	12.2	1.4	1.8	.4	.5	.2	.1	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	977	1
TOTAL	1170	1403	1346	690	347	204	127	80	121	21	20	9	2	0	0	0	0	0	0	5509	*
PCT	21.5	25.5	24.4	12.5	6.3	3.7	2.3	1.5	2.2	.4	.4	.2	.2	*	.0	.0	.0	.0	.0	100.0	

APRIL

P PIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1862-1979

AREA MODE GULF OF TEHUANTEPEC
14.0N 94.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SNOW	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.2	.1	.0	.0	.0	.1	.4	.2	.6	.6	.0	9.2	.1		89.8
NE	.4	.1	.0	.0	.0	.0	.0	.0	.5	.5	.0	.0	7.5	.3		90.8
E	.2	.7	.0	.0	.0	.0	.0	.9	.4	1.1	.4	.0	12.9	.0		84.4
SE	.3	1.0	.0	.0	.0	.0	.0	1.1	.5	.9	.2	.0	10.2	.0		86.9
S	1.2	.0	.0	.0	.0	.0	.0	1.2	.6	1.6	.5	.0	9.1	.0		86.9
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.3	.2	11.2	.0		87.6
W	.2	.2	.1	.0	.0	.0	.0	.5	.5	.4	.1	.0	9.0	.1		89.4
NW	.2	.1	.0	.0	.0	.0	.0	.3	.3	.7	.7	.0	8.3	.1		89.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.2	.1	.1	.0	.0	.0	.0	.4	.4	.6	1.4	.0	17.1	.1		79.8
TOT PCT	.2	.2	.1	.0	.0	.0	.0	.5	.4	.7	.5	.0	10.2	.1		87.7
TOT OBS:	7379															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SNOW	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00E03	.1	.1	.1	.0	.0	.0	.0	.2	.1	.1	.3	.0	10.9	.1		88.3
04E09	.2	.2	.1	.0	.0	.0	.1	.5	.3	1.3	.2	.0	9.6	.1		89.2
10E15	.5	.4	.1	.0	.0	.0	.0	.6	.9	1.4	.6	.1	10.2	.2		85.7
16E21	.3	.1	.0	.0	.0	.0	.0	.4	.5	.1	.7	.0	10.4	.1		87.8
TOT PCT	.2	.2	.1	.0	.0	.0	*	.5	.4	.7	.5	*	10.1	.1		87.6
TOT OBS:	7633															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	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	6.9	3.9	2.2	.5	*		15.8	12.2	12.7	10.1	11.1	16.4	17.2	16.9	20.9	20.5
NE	1.3	4.1	2.4	1.4	.3	*		9.5	12.5	9.2	4.1	6.7	9.9	9.1	12.3	13.0	11.3
E	1.0	3.6	.9	.2	*	.0		5.7	8.1	5.4	9.3	5.9	3.2	5.4	6.2	6.4	3.9
SE	1.0	2.5	.5	*	*	.0		4.3	6.6	5.3	5.4	5.8	1.6	3.0	2.5	3.7	2.6
S	1.0	3.0	.4	*	*	.0		4.4	6.3	5.8	6.0	6.2	4.8	3.0	2.5	2.9	2.8
SW	1.6	5.0	.9	*	*	.0		7.5	6.8	10.5	12.0	9.4	9.5	4.7	3.5	4.9	10.1
W	3.7	14.4	2.7	.1	.0	.0		20.9	7.0	22.6	28.3	22.3	22.2	22.3	22.8	16.3	20.0
NW	3.3	11.1	2.4	.4	.1	*		17.3	7.5	14.0	14.9	13.8	14.4	21.1	19.4	20.0	22.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	14.6							14.6	.0	14.2	9.9	16.7	18.0	15.1	11.9	12.0	7.0
TOT OBS	2345	4013	1109	340	79	3	7889		7.4	1863	121	1663	154	1561	201	2062	199
TOT PCT	29.7	50.9	14.1	4.3	1.0	*		100.0		100.0	100.0	100.0	1.0.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-2	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	6.0	5.4	2.9	1.2	.2		15.8	12.2	12.6	11.6	17.2	20.9
NE	3.3	3.5	1.9	.9	*		9.5	12.5	6.9	7.0	8.6	12.8
E	3.6	2.2	.4	.1	.0		5.7	8.1	5.6	5.6	5.3	.1
SE	2.5	1.6	.1	*	.0		4.3	6.6	4.3	5.4	2.9	.6
S	2.9	1.4	.1	*	.0		4.4	6.3	5.6	6.1	2.5	.3
SW	4.2	3.2	.1	*	.0		7.5	6.8	10.6	9.4	5.0	
W	11.3	9.2	.4	.0	.0		20.9	7.0	23.2	22.3	22.4	19.7
NW	9.4	7.0	.7	.2	*		17.3	7.5	14.1	13.9	20.4	20.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	14.6						14.6	.0	14.0	16.6	14.4	11.5
TOT OBS	4521	2645	514	191	16	7889		7.4	1584	1652	1792	2261
TOT PCT	57.3	33.5	6.5	2.4	.2		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1953-1979
(OVERALL) 1942-1979

AREA NO. 8 GULF OF TEHUANTEPEC
14.0N 96.9W

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)						
07E(3	14.0	16.1	51.6	13.6	3.7	.9	.6	7.2	100.0	1984
06E(Y	8.6	13.7	53.0	13.5	5.6	1.0	.4	6.9	100.0	1952
12E(5	14.6	16.8	51.5	13.6	4.4	.6	.1	7.3	100.0	1792
18E21	11.5	15.9	49.7	16.4	5.2	1.2	.1	8.1	100.0	2261
TOT	3149	1174	4013	1109	340	79	3	7.4		7889
PCT	14.8	15.7	57.9	14.1	4.3	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	7.9	2.4	3.2	1.7		3.0
NE	5.3	1.7	1.7	.8		2.7
E	5.6	1.2	1.7	.4		2.9
SE	7.0	1.0	1.1	.5		3.2
S	2.1	.3	1.1	.4		3.9
SW	3.5	1.6	1.3	.7		3.1
W	11.2	4.8	3.7	1.4		2.7
NW	7.8	3.4	3.4	1.4		2.9
VAR	.0	.0	.0	.0		.0
CALM	4.4	2.5	2.5	1.4		2.6
TOT OBS	3057	1156	1137	516	5866	2.9
TOT PCT	52.1	19.7	19.4	8.8	100.0	

TABLE 6

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

WND DIR	100 199	200 299	300 599	600 999	1000 1999	2000 2999	3000 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	*	.0	*	.3	.5	.4	.3	*	.1	.1	14.0	
NE	*	.0	*	.1	.2	.2	.2	*	*	.1	8.6	
E	*	*	*	.2	.2	.2	.1	*	*	*	5.2	
SE	*	.0	.1	.2	.4	.1	.1	*	*	*	3.6	
S	*	.0	*	.2	.1	.1	.1	.1	*	*	3.9	
SW	.1	.0	.1	.1	.2	.2	.1	.1	*	.1	6.2	
W	*	*	.1	.3	.7	.4	.2	*	.1	.1	18.8	
NW	*	*	.1	.2	.6	.3	.3	.1	*	.1	15.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	*	.1	.2	.4	.2	.2	.1	.1	.2	13.2	
TOT OBS	20	5	31	110	196	121	62	27	25	38	5210	5864
TOT PCT	*	.1	.5	1.9	3.3	2.1	1.1	.5	.4	.6	88.8	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) ≥ 0% >1/2	≥ 0% ≥5	≥ 0% ≥2	≥ 0% ≥1	≥ 0% >1/2	≥ 0% >1/4	≥ 0% >SOME	≥ 0% ≥0
≥ 0# >6500	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 0# >5000	1.4	1.6	1.6	1.6	1.6	1.6	1.6	1.6
≥ 0# >3500	2.5	2.9	2.9	2.9	2.9	2.9	2.6	2.9
≥ 0# >2000	4.2	4.9	4.9	4.9	4.9	4.9	4.9	4.9
≥ 0# >1600	6.6	8.2	8.3	8.3	8.3	8.3	8.3	8.3
≥ 0# >600	8.0	10.0	10.1	10.1	10.1	10.1	10.1	10.1
≥ 0# >300	8.5	10.5	10.7	10.7	10.7	10.7	10.7	10.7
≥ 0# >150	8.5	10.5	10.8	10.8	10.8	10.8	10.8	10.8
≥ 0# > 0	8.6	10.8	11.1	11.1	11.1	11.1	11.1	11.1
TOTAL	512	656	670	670	670	670	672	673

TOTAL NUMBER OF OBS: 6062 PCT FREQ NM <5/8: 88.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
36.2	14.3	15.1	9.9	6.1	5.0	3.4	2.5	2.4	.2	6372

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1862-1979

AREA 06'S GULF OF ST. LAWRENCE
24.0N 54.0W

TABLE A

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

VSBY (KM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	NO PCP	.0	.0	.0	.0	*	*	.0	.0	.0	*	.1	
	TOT %	.0	.0	.0	.0	*	*	.0	.0	.0	.1	.1	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
	TOT %	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
1<2	PCP	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	*	.0	.0	.0	.0	*	*	*	.0	*	.1	
	TOT %	*	.0	.0	.0	.0	*	*	*	.0	*	.1	
2<5	PCP	*	.0	.0	.0	.0	.0	.0	*	.0	*	*	
	NO PCP	.2	*	*	*	*	*	.1	.1	.0	.3	.7	
	TOT %	.2	*	*	*	*	*	.1	.1	.0	.3	.2	
5<10	PCP	*	*	*	*	*	*	*	*	.0	*	.2	
	NO PCP	2.1	1.3	.7	.6	.5	1.0	2.2	2.2	.0	2.6	13.4	
	TOT %	2.1	1.3	.8	.6	.5	1.0	2.2	2.2	.0	2.6	13.5	
10+	PCP	*	*	*	*	*	.0	.1	*	.0	*	.2	
	NO PCP	13.6	8.2	4.9	5.7	3.9	6.3	18.6	15.1	.0	11.2	85.3	
	TOT %	13.6	8.2	4.9	5.7	3.9	6.3	18.6	15.1	.0	11.2	85.5	
	TOT OBS												7367
	TOT PCT	15.9	9.6	5.7	6.3	4.4	7.4	21.0	17.4	.0	14.3	100.0	

TABLE 4

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

VSBY (KM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	.0	.0	*	*	*	*	.0	.1	.1	
	4-10	.0	.0	.0	.0	.0	.0	*	*	.0		.1	
	11-21	*	*	.0	.0	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	.0	.0	*	*	*	*	.0	.1	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	*	*	.0	.0	.0	*	*	*	.0		*	
	11-21	.0	.0	.0	.0	.0	.0	.0	*	.0		.0	
	22+	.0	.0	.0	.0	.0	.1	.0	.0	.0		.1	
	TOT %	*	*	.0	.0	.0	*	.0	*	.0	*	.1	
1<2	0-3	.0	.0	.0	.0	.0	*	*	*	.0	*	.1	
	4-10	*	*	.0	.0	.0	.1	*	.0	.0		*	
	11-21	.0	.0	.0	.0	.0	*	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	*	.0	.0	.0		.0	
	TOT %	*	.0	.0	.0	.0	*	*	.0	.0	*	.2	
2<5	0-3	*	*	*	*	*	*	*	.1	.0	.3	.5	
	4-10	.1	*	*	*	*	*	*	.1	.0		.5	
	11-21	.1	*	*	.0	.0	*	*	*	.0		.1	
	22+	*	*	*	.0	*	*	*	*	.0		.1	
	TOT %	.2	.1	.1	.1	*	.1	.1	.2	.0	.3	1.2	
5<10	0-3	.3	.2	.2	.2	.1	.2	.5	.4	.0	2.6	4.8	
	4-10	.7	.5	.4	.3	.3	.6	1.6	1.3	.0		5.9	
	11-21	.5	.3	.1	.1	*	.2	.1	.3	.0		1.8	
	22+	.5	.4	.1	*	*	*	.0	.1	.0		1.0	
	TOT %	2.0	1.3	.7	.6	.5	1.0	2.2	2.1	.0	2.8	13.2	
10+	0-3	2.0	1.1	.8	.7	.8	1.3	3.1	2.8	.0	11.4	24.4	
	4-10	6.1	3.6	3.2	2.4	2.6	4.3	12.9	9.7	.0		44.9	
	11-21	3.3	2.1	.7	.4	.4	.7	2.6	2.1	.0		12.2	
	22+	2.2	1.3	.2	*	*	*	.1	.3	.0		4.2	
	TOT %	13.6	8.2	4.9	3.6	3.8	6.3	18.5	14.9	.0	11.4	85.3	
	TOT OBS												7669
	TOT PCT	15.9	9.6	5.6	4.3	4.3	7.4	20.9	17.3	.0	14.5	100.0	

PERIOD: (PRIMARY) 1955-1975
(SUPP-ALL) 1962-1979

AREA NO 8 GULF OF TEHUANTEPEC
14.0N 96.0W

TABLE 10

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

HOUR (GMT)	000 199	200 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	AM <5/8 ANY HGT	TOTAL OBS
00E03	.2	.1	.3	.9	2.1	1.6	1.2	.3	.4	.8	7.4	94.1	1727
06E09	.4	.1	.2	.7	2.3	.8	.6	.4	.1	.6	6.2	97.6	1432
12E15	.3	.0	1.1	3.5	9.1	5.0	1.6	.4	.7	.6	23.4	64.5	1423
18E21	.6	.4	.5	2.0	9.4	4.3	1.5	.5	.6	.5	22.1	64.9	1744
TOT	21	5	72	233	704	322	93	27	39	39	673	5638	6311
PCT	.3	.1	.5	1.4	3.2	1.9	1.5	.4	.5	.6	10.7	89.3	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	*	.1	.1	.6	12.0	87.1	2005
06E09	.2	.1	.1	1.3	13.1	85.2	1849
12E15	.2	.1	.1	1.7	15.7	82.3	1809
18E21	.2	*	.1	1.3	12.5	85.9	2263
TOT	21	5	9	96	1051	6754	7925
PCT	.1	.1	.1	1.2	13.3	85.2	100.0

TABLE 11

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

HOUR (GMT)	<150 <500FT	<600 <1	<1000 <5	1000+ AND5+	AM <5/8 AND 5+	TOTAL OBS
00E03	.2	.6	1.9	6.5	93.6	1655
06E09	.4	.7	2.7	5.0	92.3	1356
12E15	.2	1.5	6.1	11.0	82.9	1366
18E21	.5	1.2	4.2	10.2	85.6	1664
TOT	21	59	223	496	5383	6082
PCT	.3	1.0	3.7	8.2	88.1	100.0

TABLE 12

PERCENT FREQUENCY OF RELATIVE HUMIDITY 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	.2	*	*	.0	.0	.0	2	*
90/94	.0	*	*	.4	1.5	.5	.2	*	158	2.6
85/89	.1	.0	*	.3	6.3	13.5	3.2	.6	1670	26.2
80/84	.0	.0	*	.9	5.6	29.3	25.1	4.4	3896	61.5
75/79	.0	.0	.0	.1	.9	2.4	3.7	1.7	555	9.2
70/74	*	*	.0	*	.1	.0	.0	.1	53	.9
TOTAL	4	1	5	74	473	2776	1961	435	6334	100.0
PCT	.0	*	.1	1.2	14.2	45.7	32.5	6.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
95/99	.0	.0	*	*	.0	.0	.0	*	.0	.0
90/94	.2	.2	.2	.2	*	.2	.2	.6	.0	.5
85/89	2.4	2.3	1.7	1.2	1.2	1.6	4.9	4.2	.0	3.5
80/84	5.3	5.0	3.5	2.7	2.8	5.0	14.7	11.2	.0	9.6
75/79	2.9	1.6	.4	.2	.3	.3	1.0	1.2	.0	1.0
70/74	.4	.2	.0	.1	*	*	*	.1	.0	.1
PCT	14.2	9.4	5.9	4.4	4.4	7.0	20.7	17.2	.0	14.7

TABLE 15

MEAN,HIGHEST-LOWEST AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	90%	50	10	MIN	MEAN	TOTAL OBS
00E03	96	90	88	86	78	70	68	85.7	7030
06E09	92	86	85	82	78	74	70	81.8	1916
12E15	93	86	84	82	77	73	70	81.2	1829
18E21	97	92	90	85	79	75	70	84.6	2317
TOT	97	91	88	83	78	74	68	83.0	8092

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	PEAK	TOTAL OBS
00E03	.1	1.0	11.7	41.7	24.0	4.6	76	1662
06E09	.0	.4	6.1	40.2	43.1	10.3	80	1463
12E15	.0	.5	5.3	19.8	49.1	10.4	80	1466
18E21	.0	3.4	24.3	48.2	21.1	3.3	74	1750
TOT	0	43	402	1372	2047	437	77	6341

AREA 04 A GULF OF TEHUANTEPEC
14.0N 94.3W

PERIOD: (PRIMARY) 1953-1975
(OVER-ALL) 1962-1979

TABLE 17

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

AIR-SEA TMP DIF	64	73	77	81	85	89	>92	TOT	FOG	PCT
	72	76	80	84	88	92				
14/16										
11/13										
8/10										
7/8										
6										
5										
4										
3										
2										
1										
0										
-1/-2										
-3/-4										
-5/-6										
-7/-8										
-9/-10										
-11/-12										
-13/-14										
TOTAL										
PCT										

PERIOD: (OVER-ALL) 1965-1979

TABLE 18

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

%

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

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

PERIOD: (OVER-ALL) 1963-1979 AREA 4 GULF OF TEHUANTEPEC
TABLE 16 (CONT) 94.0N 96.0W

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

HGT	N-E	E-SE	S-SW	W-NW	CALM	PCT
<1	1.7	1.8	.6	.0		4.0
1-2	3.7	3.8	.6	.0		8.1
3-4	1.0	.5	.2	.0		1.8
5-6	.2	.1	.0	.0		.3
7	.1	.0	.0	.0		.1
8-9	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0		.0
12	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0		.0
33+40	.0	.0	.0	.0		.0
41+48	.0	.0	.0	.0		.0
49+60	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0		.0
TOT PCT	6.5	6.3	1.7	.0	.0	14.5

HGT	N-E	E-SE	S-SW	W-NW	CALM	PCT
<1	1.7	3.2	.9	.0		5.9
1-2	3.6	2.5	.5	.0		6.6
3-4	1.1	2.3	.9	.0		4.2
5-6	.3	.2	.0	.0		.5
7	.1	.0	.0	.0		.1
8-9	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0		.0
12	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0		.0
33+40	.0	.0	.0	.0		.0
41+48	.0	.0	.0	.0		.0
49+60	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0		.0
TOT PCT	6.8	8.2	2.4	.1	.0	17.5

HGT	N-E	E-SE	S-SW	W-NW	CALM	PCT
<1	2.5	1.3	.1	.0		4.0
1-2	1.4	4.2	.2	.0		5.8
3-4	.3	2.5	.2	.1		3.1
5-6	.1	.2	.1	.0		.3
7	.1	.0	.1	.0		.1
8-9	.0	.0	.0	.0		.0
10-11	.0	.0	.1	.0		.1
12	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0		.0
33+40	.0	.0	.0	.0		.0
41+48	.0	.0	.0	.0		.0
49+60	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0		.0
TOT PCT	4.2	15.2	2.4	.1	.0	22.3

HGT	N-E	E-SE	S-SW	W-NW	CALM	PCT
<1	1.7	3.2	.9	.0		5.9
1-2	3.1	6.8	1.7	.0		11.6
3-4	.1	2.5	.2	.0		2.8
5-6	.1	.2	.1	.0		.3
7	.1	.0	.1	.0		.1
8-9	.0	.0	.0	.0		.0
10-11	.0	.0	.1	.0		.1
12	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0		.0
33+40	.0	.0	.0	.0		.0
41+48	.0	.0	.0	.0		.0
49+60	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0		.0
TOT PCT	4.9	12.9	2.5	.1	.0	20.4

HGT	N-E	E-SE	S-SW	W-NW	CALM	PCT	TOTAL PCT
<1	1.7	3.2	.9	.0		5.9	
1-2	3.1	6.8	1.7	.0		11.6	
3-4	.1	2.5	.2	.0		2.8	
5-6	.1	.2	.1	.0		.3	
7	.1	.0	.1	.0		.1	
8-9	.0	.0	.0	.0		.0	
10-11	.0	.0	.1	.0		.1	
12	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0		.0	
33+40	.0	.0	.0	.0		.0	
41+48	.0	.0	.0	.0		.0	
49+60	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0		.0	
TOT PCT	4.9	12.9	2.5	.1	.0	20.4	83.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	25.7	12.9	.3	.0	.0	.0	38.8	
1-2	6.9	26.1	3.3	.1	.0	.0	36.4	
3-4	.9	8.5	4.3	.6	.1	.0	14.2	
5-6	.0	1.1	2.6	1.0	.1	.0	5.1	
7	.0	.1	1.6	1.1	.0	.0	2.7	
8-9	.0	.1	.2	.6	.1	.0	1.1	
10-11	.0	.0	.2	.7	.1	.0	1.1	
12	.0	.0	.1	.5	.1	.0	.6	
13-16	.0	.0	.1	.3	.1	.0	.5	
17-19	.0	.0	.0	.1	.0	.0	.2	
20-22	.0	.0	.0	.1	.0	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.1	
33+40	.0	.0	.0	.0	.0	.0	.0	
41+48	.0	.0	.0	.0	.0	.0	.0	
49+60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	31.6	50.8	12.7	4.6	.6	.0	100.0	1935

PERIOD: (OVER-ALL) 1963-1979 TABLE 17

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	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	20.9	12.6	3.6	1.2	.7	.3	.2	.1	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	25.7	2
6-7	.1	2.6	.0	4.6	2.3	.9	.5	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.2	3
8-9	.1	1.3	.5	1.9	.9	.7	.5	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.6	4
10-11	.0	1.6	.0	.0	.5	.2	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	5
12-13	.0	.0	.0	.7	.0	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	6
>13	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	8
INDET	14.3	2.1	2.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20.5	3
TOTAL	1252	1497	1265	643	267	154	98	61	55	28	7	0	0	0	0	0	0	0	0	5343	
PCT	23.4	28.0	23.7	12.0	5.0	2.9	1.8	1.1	1.0	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1961-1979

AREA 0.0°S 94.0°W GULF OF TEHUANTEPEC 14.0°N

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER 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 SNOW	DUST BLWG	NO SIG WEA
N	.9	.6	.4	.0	.0	.0	.0	1.4	1.3	2.2	.7	.5	4.9	.2		65.1
NE	1.8	1.6	.3	.0	.0	.0	.0	3.7	1.8	2.6	.6	.0	4.8	.0		86.7
E	3.1	2.5	1.2	.3	.0	.0	.0	6.7	2.0	5.1	.2	.0	3.8	.1		82.4
SE	2.7	1.7	1.1	.0	.0	.0	.0	5.4	3.0	6.4	.2	.0	5.8	.1		79.2
S	3.1	1.5	.8	.0	.0	.0	.0	5.2	3.5	4.6	.6	.0	3.7	.0		82.5
SW	1.5	.9	.2	.0	.0	.0	.0	2.7	1.9	4.6	.4	.0	4.9	.0		86.0
W	.8	.6	*	.0	.0	.0	.0	1.5	1.0	2.9	.3	.0	6.5	.1		88.0
NW	1.4	.8	.2	.0	.0	.0	.0	2.4	1.1	2.5	.5	.0	6.5	.1		87.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.3	.2	.2	.0	.0	.0	.0	.6	.9	4.8	.5	.1	12.9	.2		86.3
TOT PCT	1.5	1.0	.4	.0	.0	.0	.0	2.9	1.6	3.7	.5	.0	6.9	.1		84.5
TOT OBS.	8438															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER 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 SNOW	DUST BLWG	NO SIG WEA
00E03	.8	.5	.3	.0	.0	.0	.0	1.6	1.0	.7	.3	.0	5.2	*		88.3
06E09	1.1	.6	.3	.0	.0	.0	.0	2.0	.9	10.2	.4	.0	6.1	*		80.7
12E15	2.7	2.0	.6	.0	.0	.0	.0	5.3	2.5	5.4	.9	.0	6.4	.1		79.7
18E21	1.6	1.0	.4	.0	.0	.0	.0	2.8	1.9	.2	.4	.0	6.6	.1		87.7
TOT PCT	1.5	1.0	.4	.0	.0	.0	.0	2.9	1.6	3.9	.5	.0	6.9	.1		84.4
TOT OBS.	8764															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	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	5.2	3.3	1.4	.3	.0		12.5	11.1	8.7	5.4	7.4	9.0	15.0	15.0	18.2	13.4
NE	1.5	4.4	2.9	.9	.1	*		9.9	11.0	8.7	11.1	6.7	8.9	10.3	10.0	13.1	12.3
E	1.4	5.6	2.3	.3	*	*		9.7	8.9	9.3	11.1	8.5	9.9	9.2	11.8	11.0	9.8
SE	1.4	5.5	1.2	.1	*	.0		8.2	7.4	9.1	11.9	10.5	12.3	5.2	10.3	6.8	9.4
S	1.3	4.2	.7	.1	.0	.0		6.4	6.8	8.3	7.8	8.2	5.6	4.4	8.3	4.6	6.4
SW	1.3	5.3	1.0	.1	.0	.0		7.7	7.0	10.9	14.5	8.4	10.5	5.6	7.2	5.0	10.0
W	3.4	12.3	2.7	.1	*	.0		18.5	7.2	20.7	18.7	21.5	18.0	19.3	13.9	14.4	17.6
NW	2.2	8.5	1.9	.2	*	.0		12.8	7.4	9.9	11.1	9.7	12.4	16.4	15.3	14.9	13.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	14.3							14.3	.0	14.3	8.2	19.2	13.5	14.6	8.1	11.9	8.0
TOT OBS	2621	4578	1437	281	45	1	8963		7.2	2040	147	1885	240	1645	235	2367	224
TOT PCT	29.2	51.1	16.0	3.1	.5	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	5.2	4.3	2.1	.8	.0		12.5	11.1	6.5	7.5	15.0	17.8
NE	3.9	3.8	1.7	.5	*		9.9	11.0	8.9	6.9	10.3	13.0
E	4.2	4.6	.8	.1	*		9.7	8.9	9.4	8.6	9.5	10.9
SE	4.4	3.4	.3	*	.0		8.2	7.4	4.3	10.7	5.8	7.1
S	3.9	2.3	.2	*	.0		6.4	6.8	8.3	8.0	4.8	4.8
SW	4.3	3.1	.3	.0	.0		7.7	7.0	11.2	8.6	5.6	5.5
W	9.8	8.2	.5	*	*		18.5	7.2	20.6	21.1	18.7	14.7
NW	6.7	5.6	.5	.1	*		12.8	7.4	10.0	9.9	16.3	14.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	14.3						14.3	.0	13.9	10.6	13.9	11.6
TOT OBS	5074	3166	583	137	3	8963		7.2	2167	2085	2080	2611
TOT PCT	56.6	35.3	6.5	1.5	*		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1861-1979

TABLE 4

AREA 0616 GULF OF TEHUANTEPEC
14.0N 94.9W

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	13.9	16.4	52.4	14.7	2.1	.5	.0	6.8	100.0	2187
06&09	18.6	14.5	51.2	12.4	2.4	.4	*	6.5	100.0	2085
12&15	13.9	13.5	50.5	17.5	4.0	.7	.0	7.7	100.0	2080
18&21	11.6	15.2	50.3	18.5	3.9	.4	.0	7.7	100.0	2611
TOT	1253	1336	4578	1437	281	45	1	7.2		6963
PCT	18.3	19.9	51.1	10.0	3.1	.5	*		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 8 OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.1	2.6	3.7	1.4		4.7
NE	3.1	1.9	3.1	1.7		4.7
E	2.2	2.0	3.6	2.0		4.8
SE	1.8	1.7	3.0	1.5		4.6
S	1.6	1.4	2.1	1.1		4.4
SW	2.3	1.7	2.3	1.2		4.2
W	7.0	4.5	5.0	2.2		5.7
NW	4.0	2.9	3.8	2.0		4.1
VAR	.0	.0	.0	.0		.0
CALM	5.9	3.4	3.7	1.9		3.6
TOT OBS	2165	1471	2055	1034	6725	4.1
TOT PCT	32.2	21.9	30.6	15.4	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	.1	*	.1	.4	.7	.5	.2	.1	.1	.1	9.9	
NE	*	*	.1	.6	.6	.5	.1	*	.1	.1	7.7	
E	*	*	.2	.6	1.1	.3	.2	.1	*	.1	7.3	
SE	*	*	.1	.4	.4	.3	.2	*	*	.1	5.9	
S	.1	*	.1	.4	.4	.2	.1	*	.0	*	5.1	
SW	.1	.0	.1	.3	.5	.2	.1	*	*	.1	6.2	
W	.1	*	.2	.6	.9	.5	.3	.1	.1	.1	15.8	
NW	.1	*	.1	.4	.8	.5	.3	*	*	.1	10.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	*	.1	.5	.7	.4	.1	*	.1	.1	12.7	
TOT OBS	40	16	69	273	438	237	106	35	29	45	5437	6725
TOT PCT	.6	.2	1.0	4.1	6.5	3.5	1.6	.5	.4	.7	80.8	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR 1	= OR >1/2	= OR >1/4	= OR >5070	= OR >0
= OR >6500	.8	1.0	1.1	1.1	1.1	1.1	1.1	1.1
= OR >5000	1.3	1.6	1.6	1.6	1.6	1.7	1.7	1.7
= OR >3500	2.5	3.1	3.2	3.2	3.2	3.2	3.2	3.2
= OR >2000	5.5	6.	6.7	6.7	6.7	6.7	6.7	6.7
= OR >1000	10.6	12.8	13.1	13.2	13.2	13.2	13.2	13.2
= OR >600	13.6	16.6	17.1	17.2	17.2	17.2	17.2	17.2
= OR >300	14.3	17.5	18.0	18.2	18.2	18.2	18.3	18.3
= OR >150	14.5	17.7	18.3	18.4	18.4	18.5	18.5	18.5
= OR > 0	14.7	18.2	18.8	19.0	19.0	19.0	19.1	19.1
TOTAL	1024	1266	1305	1319	1322	1324	1328	1326

TOTAL NUMBER OF OBS: 6955 PCT FREQ NM <5/8: 80.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
22.7	16.3	18.0	14.3	9.2	5.7	4.7	3.6	5.2	.4	7379

PERIOD: (PRIMARY) 1951-1979
(OVER-ALL) 1861-1979

AREA 06 GULF OF TEHUANTEPEC
14.0N 94.9W

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	*	*	*	.0	.0	*	*	.0	.0	.1	
<1/2	NO PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	*	*	*	.0	.0	*	*	.0	.0	.1	
	PCP	*	.0	*	*	*	.0	.0	.0	.0	.0	*	
1/2<1	NO PCP	*	*	*	*	.0	.0	.0	*	.0	.0	*	
	TOT %	*	*	*	*	*	.0	.0	*	.0	.0	.1	
	PCP	.0	*	.1	*	*	.0	*	.0	.0	.0	.2	
1<2	NO PCP	*	*	*	*	.0	*	*	*	.0	.0	.1	
	TOT %	*	*	.1	*	*	*	*	*	.0	.0	.3	
	PCP	*	*	.1	*	.1	*	*	*	.0	.0	.3	
2<5	NO PCP	.2	.1	*	.1	*	.1	.1	.1	.0	.1	.6	
	TOT %	.2	.2	.1	.1	.1	.1	.1	.1	.0	.1	1.2	
	PCP	.1	.1	.2	.2	.1	.1	.1	.1	.0	*	1.0	
5<10	NO PCP	1.4	1.1	1.0	1.1	.6	.7	1.9	1.4	.0	2.3	11.5	
	TOT %	1.5	1.3	1.1	1.3	.7	.8	1.9	1.5	.0	2.4	12.5	
	PCP	.1	.2	.3	.2	.1	.1	.1	.2	.0	*	1.2	
10+	NO PCP	10.7	8.4	8.2	6.4	5.5	6.5	16.4	10.8	.0	11.8	84.6	
	TOT %	10.8	8.6	8.4	6.6	5.6	6.6	16.5	11.0	.0	11.8	85.8	
	TOT OBS												8414
	TOT PCT	12.6	10.1	9.8	8.1	6.4	7.5	18.6	12.6	.0	14.3	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	*	.0	.0	.0	*	*	
<1/2	4-10	.0	.0	*	*	*	*	*	*	.0		.1	
	11-21	.0	*	*	.0	.0	*	.0	*	.0		*	
	22+	.0	*	*	.0	.0	.0	*	*	.0		*	
	TOT %	.0	*	*	*	*	*	*	*	.0	*	.2	
	0-3	*	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
1/2<1	4-10	*	.0	*	*	.0	*	.0	*	.0		.1	
	11-21	.0	.0	.0	.0	*	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	*	*	*	*	.0	*	.0	.0	.1	
	0-3	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	
1<2	4-10	*	*	*	*	*	*	*	*	.0		.1	
	11-21	*	*	*	*	*	.0	.0	.0	.0		.1	
	22+	.0	*	*	*	*	.0	.0	.0	.0		.1	
	TOT %	*	*	.1	*	*	*	*	*	.0	.0	.3	
	0-3	*	.1	.0	.0	*	*	*	*	.0	.2	.4	
2<5	4-10	.1	*	*	.1	*	.1	.1	.1	.0		.6	
	11-21	.1	.1	.1	.1	*	*	.1	*	.0		.4	
	22+	*	*	*	.0	*	.0	*	.0	.0		.1	
	TOT %	.2	.2	.1	.2	.1	.1	.2	.2	.0	.2	1.6	
	0-3	.2	.1	.2	.3	.1	.1	.3	.2	.0	2.3	4.0	
5<10	4-10	.6	.6	.6	.7	.4	.6	1.2	.9	.0		5.6	
	11-21	.4	.4	.3	.2	.1	.1	.4	.4	.0		2.2	
	22+	.3	.1	.1	*	*	*	.0	*	.0		.5	
	TOT %	1.5	1.3	1.1	1.2	.7	.8	1.9	1.5	.0	2.3	12.4	
	0-3	2.0	1.2	1.2	1.0	1.2	1.2	3.0	1.8	.0	11.8	24.5	
10+	4-10	4.5	3.9	4.9	4.6	3.8	4.6	11.0	7.5	.0		44.8	
	11-21	2.8	2.4	2.0	.9	.5	.8	2.3	1.4	.0		13.2	
	22+	1.4	1.0	.2	.1	*	*	.1	.1	.0		3.0	
	TOT %	10.7	8.5	8.4	6.7	5.5	6.7	16.4	10.9	.0	11.8	85.5	
	TOT OBS												8699
	TOT PCT	12.6	10.0	9.8	8.2	6.4	7.6	18.6	12.6	.0	14.3	100.0	

PERIOD: (PRIMARY) 1951-1979
(OVER-ALL) 1951-1979

AREA 00'S GULF OF TEHUANTEPEC
14.0N 94.9W

TABLE 10

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

HOUR (GMT)	000 199	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	.3	.1	.3	2.3	4.5	2.6	1.4	.6	.4	.9	13.6	67.2	1902
06E09	.6	.2	.6	2.6	4.9	2.2	.7	.3	.2	.6	2.9	67.1	1625
12E15	.5	.4	1.3	6.1	8.0	3.8	1.7	.4	.5	.6	23.2	74.8	1706
18E21	.6	.2	1.1	4.5	7.4	4.8	2.3	.7	.6	.6	22.9	77.1	2042
TOT	42	16	71	282	453	247	127	76	52	68	1336	5441	7277
PCT	.6	.2	1.0	3.9	6.2	3.4	1.8	1.0	.7	.9	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	*	.1	1.2	11.4	87.1	2225
06E09	.2	.2	.3	1.1	12.3	85.9	2157
12E15	.3	.0	.7	2.4	15.3	81.4	2102
18E21	.2	.2	.2	1.7	11.6	86.2	2595
TOT	17	14	29	142	1135	7696	9029
PCT	.2	.1	.3	1.6	12.6	85.2	100.0

TABLE 12

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

HOUR (GMT)	<150 <500YD	<600 <1	<1000 <5	1000+ AND5+	NM <5/8 AND 5+	TOTAL OBS
00E03	.4	1.5	4.6	10.3	84.9	1824
06E09	.6	1.6	5.2	9.0	85.4	1541
12E15	.6	2.4	10.6	14.9	74.5	1626
18E21	.9	2.3	7.7	16.5	75.6	1964
TOT	43	135	495	689	5571	6955
PCT	.6	1.9	7.1	12.8	80.1	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	*	*	.1	*	.0	.0	13	.2
90/94	.0	.0	*	.5	2.4	1.0	.2	*	279	4.0
85/89	.0	.0	*	.3	7.8	23.2	5.9	.7	2643	38.0
80/84	.0	.0	.0	.2	3.6	27.9	23.0	3.6	3815	54.9
75/79	.0	.0	.1	.0	*	.3	1.1	1.3	394	2.8
70/74	.0	.0	.0	.0	.0	*	.0	.1	7	.1
TOTAL	0	0	3	70	966	3377	2139	396	6951	100.0
PCT	.0	.0	*	1.0	13.9	48.6	30.8	5.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	.0	.0	.0	.0	*	.1	*	.0	*
.5	.7	.4	.2	.1	.2	.6	.8	.0	.7
4.4	3.5	3.7	3.1	2.2	2.7	6.6	5.0	.0	6.1
6.3	5.6	5.2	4.4	3.6	4.1	10.9	6.6	.0	7.9
.5	.4	.5	.4	.4	.1	.2	.2	.0	.2
*	*	*	*	*	.0	.0	*	.0	.0
12.3	9.8	9.7	8.1	6.3	7.3	18.6	12.6	.0	15.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	5%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	95	91	89	65	81	79	75	84.9	2253
06E09	93	88	86	83	80	78	73	83.3	2169
12E15	96	87	86	83	79	76	73	82.6	2131
18E21	96	94	91	86	81	77	71	85.7	2662
TOT	96	92	89	84	80	77	71	84.2	9215

TABLE 16

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	17.0	55.1	23.2	3.5	75	1648
06E09	.0	.2	6.4	45.7	42.1	5.5	79	1683
12E15	.0	.4	4.5	41.6	43.8	9.5	80	1687
18E21	.0	2.0	24.8	51.2	17.7	4.3	74	2005
TOT	0	74	995	3521	2230	403	77	7223

MAY

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1961-1979

AREA 0004 GULF OF TEHUANTEPEC
14.0N 94.9W

TABLE 17

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

AIR-SEA TMP DIF	73-76	77-80	81-84	85-88	89-92	>92	*OT	N FOG	%F FOG
10/16	.0	.0	.0	.0	.0	*	1	.0	*
11/13	.0	.0	*	.1	*	.1	27	.0	.1
9/10	.0	.0	*	.1	.1	.2	29	.0	.4
7/8	.0	.0	.1	.2	.6	.2	87	*	1.1
6	.0	.0	.1	.3	.4	*	65	.0	.8
5	.0	.0	.1	.7	.9	.1	149	*	1.0
4	.0	*	.5	1.4	1.0	*	232	*	2.0
3	.0	.1	.4	1.7	.4	*	259	.0	3.0
2	.0	*	1.9	4.1	.8	*	546	*	6.0
1	.0	.1	2.0	5.3	.4	.0	621	*	7.0
0	*	.2	7.0	7.2	.3	.0	1170	.1	14.7
-1	.0	.2	7.3	5.8	.1	.0	1061	.1	13.3
-2	.0	.5	10.8	4.4	*	.0	1238	.1	15.5
-3	*	.5	7.6	2.0	*	.0	805	*	10.1
-4	*	.9	7.3	.9	*	.0	724	*	9.1
-5	*	.9	3.8	.6	*	.0	430	.0	5.4
-6	*	1.0	2.0	.1	.0	.0	241	.0	3.0
-7/-8	.1	.9	1.1	.2	.0	.0	175	*	2.2
-9/-10	.1	.4	.2	*	.0	.0	55	*	.7
-11/-15	.1	.1	.1	.0	.0	.0	22	.0	.3
-14/-16	.0	*	.0	.0	.0	.0	1	.0	*
TOTAL	33	468	4133	2769	451	59	7913	39	7874
PCT	.4	5.9	52.2	35.0	5.7	.7	100.0	.5	99.5

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

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

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	1.4	.0	.1	.0	.0	2.6
1-2	.4	2.5	.5	.0	.0	.0	3.4
3-4	.1	1.2	1.1	.2	.0	.0	2.6
5-6	.0	.3	1.1	.4	.1	.0	1.8
7	.0	.1	.5	.5	.1	.0	1.1
8-9	.0	.0	*	.2	.2	.0	.4
10-11	.0	.0	.1	.2	.0	.0	.4
12	.0	.0	.0	.1	.1	.0	.1
13-16	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	5.4	3.3	1.8	.5	.0	12.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	1.5	.1	.0	.0	.0	2.3
1-2	.2	2.1	.7	.0	.0	.0	3.1
3-4	.1	.8	1.2	.1	.0	.0	2.2
5-6	.1	.2	1.2	.3	.0	.0	1.7
7	.0	.0	.8	.1	.0	.0	.9
8-9	.0	.0	.2	.3	*	.0	.5
10-11	.0	.0	.1	.2	.0	.0	.3
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.1	.1	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	*	.0	*
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	4.6	4.2	1.2	.1	.0	11.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	1.3	*	.0	.0	.0	2.1
1-2	.2	3.2	.9	.0	.0	.0	4.4
3-4	.2	.9	1.0	.1	.0	.0	2.3
5-6	.0	.3	.8	*	.0	.0	1.1
7	.0	.1	.3	.0	.0	.0	.3
8-9	.0	.1	.0	*	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	5.8	3.0	.2	.0	.0	10.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.5	*	.0	.0	.0	2.2
1-2	.2	2.6	.4	.1	.0	.0	3.2
3-4	.2	1.0	.4	.1	.0	.0	1.6
5-6	.1	.2	.1	.0	.0	.0	.4
7	.0	.1	.2	.0	.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	1.3	5.3	1.1	.1	.0	.0	7.7

PERIOD: (OVER-ALL) 1965-1979 AREA CODE GULF OF TEHUANTEPEC 14.0N 94.0W

TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.1	.0	.0	.0	2.0
1-2	.1	1.1	.2	.0	.0	.0	2.5
3-4	.1	.6	.2	.0	.0	.0	1.0
5-6	*	.2	.1	.1	.0	.0	.4
7	.0	.1	.1	.0	.0	.0	.2
8-9	.0	.1	.1	.0	.0	.0	.1
10-11	.0	*	.0	.0	.0	.0	*
12	.0	*	*	.0	.0	.0	*
13-16	.0	*	.1	.0	.0	.0	.0
17-19	.0	*	*	.0	.0	.0	.0
20-22	.0	*	*	.0	.0	.0	.0
23-25	.0	*	*	.0	.0	.0	.0
26-32	.0	*	*	.0	.0	.0	.0
33-40	.0	*	*	.0	.0	.0	.0
41-48	.0	*	*	.0	.0	.0	.0
49-60	.0	*	*	.0	.0	.0	.0
61-70	.0	*	*	.0	.0	.0	.0
71-86	.0	*	*	.0	.0	.0	.0
87+	.0	*	*	.0	.0	.0	.0
TOT PCT	1.2	4.0	.4	.1	.0	.0	5.7

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.7	2.7	.5	.0	.0	.0	4.4
1-2	.7	7.7	1.7	.0	.0	.0	9.4
3-4	.1	2.5	1.1	.0	.0	.0	3.7
5-6	*	.1	*	.0	.0	.0	.2
7	.0	.1	*	.0	.0	.0	.1
8-9	.0	*	*	.0	.0	.0	.0
10-11	.0	*	*	.0	.0	.0	.0
12	.0	*	*	.0	.0	.0	.0
13-16	.0	*	*	.0	.0	.0	.0
17-19	.0	.0	*	.0	.0	.0	.0
20-22	.0	.0	*	.0	.0	.0	.0
23-25	.0	.0	*	.0	.0	.0	.0
26-32	.0	.0	*	.0	.0	.0	.0
33-40	.0	.0	*	.0	.0	.0	.0
41-48	.0	.0	*	.0	.0	.0	.0
49-60	.0	.0	*	.0	.0	.0	.0
61-70	.0	.0	*	.0	.0	.0	.0
71-86	.0	.0	*	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.6	13.0	2.1	.0	.0	.0	17.7

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.5	2.1	.3	.0	.0	.0	3.9
1-2	.3	5.0	1.3	.0	.0	.0	6.1
3-4	.1	1.0	.4	.0	.0	.0	2.2
5-6	*	.2	*	.0	.0	.0	.4
7	.0	.1	*	.0	.0	.0	.2
8-9	.0	.0	*	.0	.0	.0	.0
10-11	.0	.0	*	.0	.0	.0	.0
12	.0	.0	*	.0	.0	.0	.0
13-16	.0	.0	*	.0	.0	.0	.0
17-19	.0	.0	*	.0	.0	.0	.0
20-22	.0	.0	*	.0	.0	.0	.0
23-25	.0	.0	*	.0	.0	.0	.0
26-32	.0	.0	*	.0	.0	.0	.0
33-40	.0	.0	*	.0	.0	.0	.0
41-48	.0	.0	*	.0	.0	.0	.0
49-60	.0	.0	*	.0	.0	.0	.0
61-70	.0	.0	*	.0	.0	.0	.0
71-86	.0	.0	*	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	8.4	1.7	.2	.0	.0	12.3

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.4	2.1	.3	.0	.0	.0	3.8
1-2	.4	5.0	1.4	.0	.0	.0	6.8
3-4	.1	1.6	.5	.0	.0	.0	2.2
5-6	*	.3	.1	.0	.0	.0	.4
7	.0	.1	*	.0	.0	.0	.2
8-9	.0	.0	*	.0	.0	.0	.0
10-11	.0	.0	*	.0	.0	.0	.0
12	.0	.0	*	.0	.0	.0	.0
13-16	.0	.0	*	.0	.0	.0	.0
17-19	.0	.0	*	.0	.0	.0	.0
20-22	.0	.0	*	.0	.0	.0	.0
23-25	.0	.0	*	.0	.0	.0	.0
26-32	.0	.0	*	.0	.0	.0	.0
33-40	.0	.0	*	.0	.0	.0	.0
41-48	.0	.0	*	.0	.0	.0	.0
49-60	.0	.0	*	.0	.0	.0	.0
61-70	.0	.0	*	.0	.0	.0	.0
71-86	.0	.0	*	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.0	9.2	2.3	.3	.0	.0	13.8

HGT	TOTAL PCT
<1	3.6
1-2	6.1
3-4	2.2
5-6	.4
7	.2
8-9	.0
10-11	.0
12	.0
13-16	.0
17-19	.0
20-22	.0
23-25	.0
26-32	.0
33-40	.0
41-48	.0
49-60	.0
61-70	.0
71-86	.0
87+	.0
TOT PCT	85.6

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	12.2	.2	.1	.0	.0	36.4	
1-2	3.7	27.2	4.4	.1	.0	.0	35.3	
3-4	1.1	9.7	5.5	.6	.0	.0	15.9	
5-6	.2	1.6	4.0	.9	.1	.0	6.8	
7	.0	.4	2.1	.6	.1	.0	3.1	
8-9	.0	.1	.2	.6	.2	.0	1.1	
10-11	.0	.0	.2	.4	.0	.0	.6	
12	.0	.0	.0	.2	.1	.0	.3	
13-16	.	.0	.0	.3	.1	.0	.4	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.1	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1697
TOT PCT	28.9	50.5	16.6	3.7	.5	.0	100.0	

PERIOD: (OVER-ALL) 1949-1979

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	7.1	17.6	14.1	4.5	1.7	.6	.4	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	2914	3
6-7	.2	2.0	6.6	4.9	2.3	1.0	.6	.1	.3	*	*	.0	.0	.0	.0	.0	.0	.0	.0	1148	5
8-9	.1	1.2	2.2	2.7	1.6	.7	.4	.1	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	652	5
10-11	.0	1.1	1.3	1.2	.5	.3	.2	*	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	298	5
12-13	.0	.0	1.0	.6	.3	.2	*	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	145	5
>13	.0	.0	.0	.2	.3	.2	*	*	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	54	7
INDET	11.0	2.3	2.3	.6	.3	.3	.2	*	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0	1078	1
TOTAL	1158	1535	1804	936	439	203	116	29	46	9	9	.0	.0	.0	.0	.0	.0	.0	.0	6267	5
PCT	18.4	24.4	28.7	14.9	7.0	3.2	1.8	.5	.7	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1883-1979

AREA 0006 GULF OF TEHUANTEPEC
14.0N 98.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
N	3.5	1.6	1.1	.0	.0	.0	.0	6.1	2.3	5.1	.1	.1	.9	.0		85.6
NE	3.8	3.0	2.5	.0	.0	.0	.0	8.8	4.0	5.0	.1	.0	.7	.0		81.7
E	5.6	2.5	1.8	.0	.0	.0	.0	9.8	5.4	6.0	.1	.0	.4	.1		78.6
SE	6.0	3.8	1.2	.0	.0	.0	.0	11.0	5.3	4.8	.1	.0	.5	.0		76.7
S	6.0	4.6	1.5	.0	.0	.0	.0	11.7	5.4	6.0	.0	.0	.3	.0		77.2
SW	5.3	3.9	2.0	.0	.0	.0	.1	11.3	5.9	4.7	.0	.0	.3	.0		78.2
W	4.4	2.0	1.5	.0	.0	.0	.1	7.9	5.3	5.7	.0	.0	.3	.0		80.9
NW	3.5	1.7	1.4	.0	.0	.0	*	6.7	2.5	4.4	.0	.0	.6	.0		86.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	1.2	.7	.5	.0	.0	.0	.0	2.2	1.6	7.2	.1	.0	1.8	.0		87.1
TOT PCT	4.5	2.6	1.5	.0	.0	.0	*	8.5	4.4	5.5	.1	*	.6	*		81.3
TOT OBS:	7947															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
00&03	2.6	1.8	1.3	.0	.0	.0	.0	5.6	3.6	.7	.0	.0	.6	.0		89.5
06&09	3.8	2.0	1.3	.0	.0	.0	.0	7.0	3.3	14.7	.1	.0	.7	.0		74.7
12&15	6.5	3.6	2.1	.0	.0	.0	.1	12.1	5.3	7.9	.1	.1	.5	.1		74.9
18&21	4.9	3.0	1.3	.0	.0	.0	*	9.2	5.0	.8	.1	.0	.6	.0		84.5
TOT PCT	4.4	2.6	1.5	.0	.0	.0	*	8.5	4.3	5.6	.1	*	.6	*		81.2
TOT OBS:	8172															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	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	4.7	1.9	.5	.1	*		8.4	9.8	6.4	1.7	4.8	6.5	10.6	9.0	12.1	7.5
NE	1.3	6.1	2.9	.6	.1	.0		10.9	9.7	9.7	4.4	7.0	8.2	12.5	12.7	14.3	10.4
E	1.6	9.8	4.7	.9	.1	*		17.2	10.1	16.1	14.1	15.6	17.4	16.7	19.9	19.6	18.0
SE	1.3	7.0	3.4	.5	.1	.0		12.3	9.7	13.3	21.8	14.0	14.7	10.4	12.7	10.4	14.5
S	1.2	4.8	1.9	.2	*	.0		8.2	8.8	10.2	9.4	10.2	7.7	6.5	6.7	6.1	6.0
SW	1.1	5.2	2.3	.4	*	.0		8.9	9.3	11.9	13.3	9.4	11.9	6.4	9.7	7.2	9.6
W	1.7	8.4	4.5	.5	*	.0		15.2	9.7	15.9	15.8	16.7	13.4	16.3	12.1	13.1	14.4
NW	1.3	5.6	1.9	.1	*	*		9.0	8.4	6.7	10.0	7.7	9.5	11.6	9.2	10.0	9.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.0							10.0	.0	9.9	9.5	14.7	10.8	9.1	8.0	7.2	8.0
TOT OBS	1744	4368	1997	322	32	2	8465		8.6	1938	147	1793	213	1700	263	2165	226
TOT PCT	20.6	51.6	23.6	3.8	.4	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)							HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.4	3.7	.9	.3	*		8.4	9.8	6.0	4.9	10.4	11.7
NE	4.5	4.9	1.3	.2	.0		10.9	9.7	9.3	7.1	12.5	14.0
E	6.0	8.8	2.0	.3	*		17.2	10.1	15.9	15.8	17.1	19.5
SE	4.5	6.4	1.2	.2	*		12.3	9.7	13.9	14.0	10.7	10.8
S	3.6	3.8	.7	.1	*		8.2	8.6	10.2	9.9	6.5	6.3
SW	3.7	4.2	1.0	.1	.0		8.9	9.3	12.0	9.6	6.9	7.4
W	5.3	8.1	1.7	.1	.0		15.2	9.7	15.9	16.4	15.7	13.2
NW	4.1	4.3	.6	.1	*		9.0	8.4	7.0	7.9	11.3	9.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	10.0						10.0	.0	9.9	14.3	8.9	7.3
TOT OBS	3810	3740	801	109	5	8465		8.6	2085	2006	1963	2411
TOT PCT	45.0	44.2	9.5	1.3	.1		100.0		100.0	100.0	100.0	100.0

JUNE

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1883-1979

AREA 0008 GULF OF TEHUANTEPEC
14.0N 94.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00E03	9.9	10.3	52.1	24.0	3.3	.5	.0	8.5	100.0	2085
06E09	14.3	10.5	52.0	19.7	3.3	.5	.0	7.8	100.0	2006
12E15	8.5	10.3	51.1	25.0	4.4	.1	.1	8.8	100.0	1963
18E21	7.3	11.4	51.3	25.3	4.2	.5	.0	9.1	100.0	2411
TOT	843	901	4368	1997	322	32	4	8.6		8465
PCT	10.0	10.6	51.6	23.6	3.8	.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	1.6	3.5	2.1		5.3
NE	1.5	2.1	4.5	2.8		5.5
E	1.8	2.7	6.9	5.4		6.8
SE	1.4	2.1	4.6	3.8		5.7
S	.8	1.5	3.2	2.9		5.9
SW	.8	1.3	3.2	3.3		6.0
W	2.1	3.1	6.3	4.4		5.5
NW	1.5	2.0	3.2	2.1		5.1
VAR	.0	.0	.0	.0		.0
CALM	2.6	2.5	3.4	1.4		4.4
TOT OBS	892	1218	2516	1800	6426	5.5
TOT PCT	13.9	19.0	39.2	28.0	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	*	.2	.6	.9	.5	.2	.1	.1	*	6.0	
NE	.2	*	.2	.7	1.3	.6	.2	.1	*	.1	7.7	
E	.1	.2	.7	1.5	2.6	.9	.4	.1	.1	*	9.9	
SE	.2	.1	.4	1.3	1.7	.7	.2	*	*	*	7.1	
S	.1	.1	.2	1.1	1.4	.3	.2	.1	.0	*	4.9	
SW	.1	.1	.3	1.1	1.3	.6	.2	*	.0	*	4.9	
W	.2	.1	.4	1.3	2.1	.8	.2	.1	*	*	10.6	
NW	.1	*	.1	.6	.9	.4	.2	.1	*	*	6.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	*	.1	.7	.7	.3	.2	*	*	*	8.1	
TOT OBS	68	46	165	576	824	332	130	37	19	18	4209	6426
TOT PCT	1.1	.7	2.6	9.0	12.8	5.2	2.0	.6	.3	.3	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 >SOYD	= OR >0
= OR >6500	.6	.6	.6	.6	.6	.6	.6	.6
= OR >5000	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2
= OR >3500	2.9	3.1	3.2	3.2	3.2	3.2	3.2	3.2
= OR >2000	7.1	8.1	8.2	8.3	8.3	8.3	8.3	8.3
= OR >1000	17.7	20.4	20.8	21.0	21.0	21.0	21.1	21.1
= OR >600	24.0	28.7	29.4	29.7	29.8	29.9	29.9	29.9
= OR >300	25.3	30.7	31.8	32.1	32.2	32.4	32.5	32.5
= OR >150	25.6	31.2	32.4	32.8	32.9	33.1	33.2	33.2
= OR > 0	25.9	31.8	33.2	33.7	33.8	34.0	34.2	34.2
TOTAL	1714	2103	2195	2227	2236	2250	2260	2261

TOTAL NUMBER OF OBS: 6609 PCT FREQ NH <5/8: 65.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
6.3	14.3	17.5	15.2	12.2	7.6	8.5	5.8	11.9	.7	7055

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1.02-1979

UPPER POINT GULF OF TEHUANTEPEC
34.0N 94.4W

TABLE 8

PERCENT FREQ OF WIN DIRECTION VS OCCURRANCE OR NON-OCCURRANCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	•	•	.1	•	•	•	•	.0	.0	.0	.1	
	NO PCP	.0	•	•	•	•	•	•	•	.0	.0	.1	
	TOT %	•	•	.1	.1	.1	.1	•	•	.0	.0	.4	
1/2<1	PCP	•	•	•	•	•	•	.0	•	.0	.0	.1	
	NO PCP	.0	•	•	.0		•	•	•	.0	.0	.1	
	TOT %	•	•	•	•		•	•	•	.0	.0	.2	
1<2	PCP	•	.1	.1	.1	•		•	•	.0	.0	.5	
	NO PCP	.0	.0	•	•		•	.0	•	.0	.0	.2	
	TOT %	•	.1	.2	.1	.1	•	•	•	.0	.0	.8	
2<5	PCP	.1	.1	.1	.2	.1	.1	.1	•	.0	•	.5	
	NO PCP	•	.1	.1	.1	.1	•	.1	•	.0	.0	.2	
	TOT %	.1	.2	.3	.3	.2	.2	.2	.1	.0	.1	1.6	
5<10	PCP	.2	.4	.6	.5	.4	.4	.5	.2	.0	.1	3.3	
	NO PCP	.7	.8	1.3	.9	.5	.8	[illegible]	.5	.0	.0	[illegible]	
	TOT %	.9	1.1	1.9	1.4	.9	1.2	[illegible]	.6	.0	.1	10.4	
10+	PCP	.2	.4	.7	.5	.3	.4	.5	.2	.0	.2	3.4	
	NO PCP	7.4	9.1	[illegible]	9.7	7.5	7.0	13.1	7.2	.0	9.0	43.4	
	TOT %	7.6	9.4	[illegible]	10.2	8.0	7.4	13.6	8.0	.0	9.2	46.8	
	TOT OBS												7976
	TOT PCT	8.6	10.9	17.2	12.2	9.2	8.9	15.4	9.1	.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	•	•	
	4-10	•	•	•	•	•	•	.1	•			.2	
	11-21	.0	•	•	•	•	•	•					
	22+	•	•	.1	•			•	.0			.2	
	TOT %	•	•	.1	.1	.1	.1	.1	•	.0	•	.5	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	•	.0	.0	.0	•	
	4-10	.0	•	•	•	•	•	•	•	.0		.1	
	11-21	•	•	•	.0	•	•	•	•	.0		.1	
	22+	.0	.0	.0	.0				.0	.0			
	TOT %	•	•	•	•	.1	•	•	•	.0	.0	.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	•	•	•	•	•	•	•	•	.0		.1	
	11-21	.0	•	.1	.1	•	•	•	•	.0		.2	
	22+	•	•	•	•	.0	.0	.0	.0	.0		.1	
	TOT %	•	.1	.1	.2	.1	•	•	.1	.0	.0	.4	
2<5	0-3	.0	•	.0	•	•	.0	•	•	.0	.1	.1	
	4-10	.1	•	.1	.1	.1	.1	.1	•	.0		.4	
	11-21	.1	.1	.2	.1	.2	.1	.1	•	.0		.6	
	22+	•	•	.1	•	.0	.0	.0	.0	.0		.1	
	TOT %	.1	.2	.3	.4	.3	.2	.2	.1	.0	.1	1.6	
5<10	0-3	.1	.1	.2	.1	.1	.1	.1	.1	.0	.0	.1	
	4-10	.6	.5	.8	.6	.5	.6	.5	.5	.0		.2	
	11-21	.3	.4	.7	.5	.3	.5	.7	.2	.0		.3.7	
	22+	.1	.2	.2	.2	.1	.1	.2	•	.0		.1	
	TOT %	.9	1.1	1.9	1.4	.9	1.2	1.5	.9	.0	.0	10.3	
10+	0-3	1.1	1.1	1.5	1.1	1.1	1.0	1.0	1.1	.0	9.2	18.4	
	4-10	4.2	5.4	8.9	8.3	4.3	4.8	7.7	5.0	.0		48.6	
	11-21	2.6	2.4	3.7	2.7	2.4	1.6	3.7	1.6	.0		20.7	
	22+	.5	.4	.6	.2	.1	.2	.4	.1	.0		2.5	
	TOT %	7.4	9.3	14.7	10.3	6.8	7.6	13.4	7.9	.0	9.2	88.4	
	TOT OBS												8262
	TOT PCT	8.5	10.7	17.2	12.3	8.2	9.0	15.4	9.0	.0	9.7	100.0	

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1953-1979

AREA DESC GULF OF TEHUANTEPEC
16.0N 94.9W

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	HM <5/8 ANY HGT	TOTAL OBS
00E03	.5	.5	1.4	6.6	16.0	3.4	2.1	.5	.3	.3	26.2	73.8	1657
06E09	.9	.3	1.9	8.8	11.7	4.0	1.5	.4	.3	.2	30.0	70.0	1468
12E15	1.7	1.2	3.5	9.3	14.3	5.6	1.5	.4	.2	.1	38.0	62.0	1618
18E21	1.0	.7	3.2	9.6	13.3	6.0	2.1	.5	.3	.6	37.3	62.7	1926
TOT	69	46	166	598	892	338	133	36	19	21	2266	4421	6669
PCT	1.0	.7	2.4	8.5	12.3	4.9	1.9	.6	.3	.3	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
00E03	.4	.1	.4	.9	3.4	93.8	2104
06E09	.7	.2	.5	1.2	10.4	86.9	1991
12E15	.8	.4	1.1	3.2	13.4	81.2	1995
18E21	.4	.3	.6	2.2	9.4	86.8	2379
TOT	45	20	55	157	869	7327	6473
PCT	.7	.3	.8	2.4	13.2	86.5	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND/OR 5+	HM <5/8 AND 5+	TOTAL OBS
00E03	.6	2.7	10.3	17.2	72.5	1770
06E09	.8	3.6	13.2	16.5	68.3	1416
12E15	1.8	7.0	17.5	21.9	60.5	1562
18E21	1.9	5.0	15.4	23.7	60.1	1855
TOT	70	300	936	1350	4329	6609
PCT	1.1	4.5	14.1	20.4	65.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.3	.7	*	*	*	.7	.0	5	.1
90/94	.0	.0	*	.1	1.2	.9	.1	*	195	2.2
85/89	.0	.*	*	.2	4.4	13.2	3.5	.6	1521	22.6
80/84	.0	.0	.0	.1	2.6	29.0	32.9	5.5	4199	63.5
75/79	.0	.0	.0	.0	*	.5	4.4	8.1	733	11.1
70/74	.0	.0	.0	.0	.0	.0	*	.3	22	.3
TOTAL	0	0	2	24	547	2621	2595	826	6615	100.0
PCT	.0	.0	*	.4	8.3	39.6	39.2	12.5		

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	.3	.3	.2	.1	.1	.*	.3	.0	.*
	2.8	3.0	3.8	2.2	1.*	1.6	3.*	2.1	.0	2.5
	5.1	8.0	10.7	8.1	5.5	5.5	9.7	5.*	.0	6.8
	.7	1.1	2.0	1.5	1.5	1.3	1.6	.7	.0	.*
	.0	.0	.1	*	*	.1	.1	*	.0	.0
	8.6	11.1	16.8	12.0	9.6	8.6	15.*	8.6	.0	10.1

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	95	90	88	84	78	76	73	82.5	2128
06E09	91	86	85	82	78	76	71	82.1	2053
12E15	94	86	85	82	77	75	72	81.4	2013
18E21	97	92	90	86	78	75	73	84.0	2437
TOT	97	90	88	83	78	76	71	82.6	8631

TABLE 16

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	.*	11.1	47.0	33.9	4.6	78	1772
06E09	.0	.0	3.7	33.6	50.6	11.6	81	1369
12E15	.0	.1	2.7	29.3	49.4	18.5	83	1623
18E21	.0	1.0	14.0	47.1	27.3	10.5	77	1854
101	0	27	559	2712	2673	847	80	6818

PERIOD: (PRIMARY) 1951-1979
(OVER-ALL) 1883-1979

AREA NO.6 GULF OF TEHUANTEPEC
14.6N 94.4W

TABLE 17

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

SST-SAT	73	77	81	85	89	93+	TOT	N	PCT
AMP DIF	76	80	84	88	92			FOG	
14/16	.0	.1	.0	.0	.0	.0	4	.0	.1
11/13	.0	.0	.0	.0	.0	.0	7	.0	.1
9/10	.0	.0	.0	.0	.0	.1	15	.0	.2
7/8	.0	.0	.1	.2	.1	.1	51	.0	.7
6	.0	.0	.1	.3	.1	.1	54	.0	.7
5	.0	.0	.1	.5	.5	.1	94	.0	1.2
4	.0	.0	.0	.6	1.2	.0	169	.0	2.2
3	.0	.0	.0	.5	1.6	.0	234	.0	3.0
2	.0	.0	.0	1.1	1.3	.0	396	.0	5.1
1	.0	.0	.0	2.3	2.3	.0	422	.0	5.4
0	.0	.0	.5	3.7	6.4	.0	951	.0	12.2
-1	.0	.0	.0	6.2	3.1	.0	878	.0	11.3
-2	.0	.0	1.1	11.9	1.6	.0	1081	.0	14.0
-3	.0	.0	1.6	8.7	1.0	.0	951	.0	12.3
-4	.0	.0	2.7	7.2	.5	.0	827	.0	10.7
-5	.0	.1	2.9	3.6	.2	.0	515	.0	6.6
-6	.0	.1	2.9	3.6	.1	.0	382	.0	4.9
-7/-8	.0	.0	3.4	1.2	.0	.0	382	.0	4.1
-9/-10	.0	.1	1.1	.2	.0	.0	132	.0	1.7
-11/-12	.0	.0	.0	.0	.0	.0	44	.0	.6
TOTAL	126	1264	4223	1565	236	23	7461	4	765
PCT	1.7	16.9	56.6	21.0	3.2	.3	100.0	.1	99.9

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.9	.0	.0	.0	.0	1.4
1-2	.3	2.3	.5	.0	.0	.0	3.0
3-4	.0	1.2	.7	.0	.0	.0	1.8
5-6	.0	.5	.7	•	.0	.0	1.2
7	.0	•	.3	.1	.0	.0	.6
8-9	.0	.0	•	.1	.0	.0	.2
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	•	.0	.0	•
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	4.9	2.1	.1	•	.0	8.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.4	.1	.0	.0	.0	1.9
1-2	.1	2.6	.7	.0	.0	.0	3.4
3-4	.1	1.6	.6	.1	.0	.0	2.3
5-6	.0	.2	.4	.2	.0	.0	.4
7	.0	.0	.2	•	.0	.0	.2
8-9	.0	.0	.1	•	.0	.0	.1
10-11	.0	.0	.0	•	.0	.0	.1
12	.0	.0	.0	•	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	5.8	1.7	.4	.0	.0	8.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.2	.1	.0	.0	.0	1.7
1-2	.2	2.6	1.2	.0	.0	.0	4.0
3-4	.2	1.8	2.0	.1	.0	.0	4.2
5-6	.0	.3	1.2	.2	.0	.0	1.7
7	.0	.2	.4	.2	.0	.0	1.0
8-9	.0	.0	.2	.1	.0	.0	.4
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	6.1	5.3	1.2	.0	.0	13.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.2	.2	.0	.0	.0	1.8
1-2	.1	2.3	.5	.0	.0	.0	3.0
3-4	.2	1.8	.7	.1	.0	.0	3.2
5-6	.1	.4	.3	.1	.0	.0	.9
7	.0	.1	.1	.0	.0	.0	.2
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	5.8	1.9	.2	.0	.0	8.3

PERIOD: WINTER-ALL 1965-1979 AREA CODE GULF OF TEHUANTEPEC
TABLE 36 (CONT.) 14.0N 94.5W

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

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1							
1-2							
3-4							
5-6							
7							
8-9							
10-11							
12							
13-16							
17-19							
20-22							
23-25							
26-32							
33-40							
41-47							
48-58							
59-70							
71-85							
86+							
TOT PCT	1.6	10.3	5.5	1.1	0.0	0.0	18.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1							
1-2							
3-4							
5-6							
7							
8-9							
10-11							
12							
13-16							
17-19							
20-22							
23-25							
26-32							
33-40							
41-47							
48-58							
59-70							
71-85							
86+							
TOT PCT	9.3	51.3	29.6	9.8	.0	.0	100.0

TOTAL OBS 1685

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1							
1-2							
3-4							
5-6							
7							
8-9							
10-11							
12							
13-16							
17-19							
20-22							
23-25							
26-32							
33-40							
41-47							
48-58							
59-70							
71-85							
86+							
TOT PCT	17.2	51.2	29.6	9.8	.0	.0	100.0

PERIOD: WINTER-ALL 1965-1979 TABLE 37

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-47	48-58	59-70	71-85	86+	TOTAL	PEAK HGT
0-6																					
6-7																					
8-9																					
10-11																					
12-13																					
>13																					
UNDET																					
TOTAL																					
PCT																					

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1872-1979

AREA CODE GULF OF TEHUANTEPEC
14.0N 94.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SN N	NO SIG WEA
N	2.3	.6	.7	.0	.0	.0	.0	3.6	1.7	7.3	.0	.0	.9	.2	86.6
NE	3.9	1.9	.5	.0	.0	.0	.0	6.2	3.1	7.8	.2	*	.4	.1	83.0
E	5.2	2.6	2.2	.0	.0	.0	.0	9.6	4.0	6.7	.5	*	.2	.3	79.5
SE	4.6	3.2	1.7	.0	.0	.0	.0	9.2	5.0	8.2	.2	.0	.2	.0	77.5
S	4.1	4.2	1.1	.0	.0	.0	.0	9.4	4.-	7.4	.0	.0	.6	.0	78.7
SW	4.1	2.7	.4	.0	.0	.0	.0	7.2	5.0	7.2	.0	.0	.1	.0	80.6
W	2.9	1.7	1.5	.0	.0	.0	.0	5.7	2.2	7.4	.3	.2	.5	.3	83.5
NW	3.0	1.6	.8	.0	.0	.0	.0	5.4	2.5	7.0	*	.0	.2	*	85.1
VAR	.0	.-	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.1	.3	.3	.0	.0	.0	.0	.0	1.0	12.0	.0	.0	2.0	.0	84.3
TOT PCT	3.5	2.0	1.1	.0	.0	.0	.0	6.5	3.1	7.6	.2	*	.5	*	82.2
TOT OBS:	8065														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00E03	2.0	1.4	.7	.0	.0	.0	.0	4.0	2.0	1.5	.1	.0	.5	.0	91.9
04E09	2.7	1.3	.8	.0	.0	.0	.0	4.7	1.7	21.0	.3	.0	.7	.1	72.0
10E15	6.4	3.7	1.6	.0	.0	.0	.0	11.4	4.-	10.9	.2	.0	.6	.1	73.1
16E21	3.3	1.7	1.4	.0	.0	.0	.0	6.3	3.8	.9	.2	.1	.5	*	86.4
TOT PCT	3.6	2.0	1.1	.0	.0	.0	.0	6.5	3.1	8.0	.2	*	.5	*	82.0
TOT OBS:	8280														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	6.2	3.7	.9	*	.0		14.7	9.6	12.3	9.0	11.1	16.8	17.0	17.3	17.7	13.4
NE	.-	4.2	5.1	.8	.1	.0		16.0	10.5	15.8	15.6	13.0	14.7	17.1	17.0	17.9	14.9
E	1.7	1.1	7.8	.8	.1	.0		21.5	10.4	21.1	17.0	20.1	18.6	21.2	20.9	23.7	20.9
SE	1.1	6.3	3.6	.3	*	.0		11.4	9.8	11.7	5.6	13.3	11.6	9.0	14.0	11.6	10.6
S	1.0	3.0	1.1	.1	*	.0		5.2	8.1	7.3	7.1	6.0	6.5	3.6	3.9	4.0	6.0
SW	.7	2.6	.-	*	*	.0		4.0	7.5	6.0	7.3	3.9	5.6	2.6	4.3	2.6	7.0
W	1.2	4.8	1.2	.1	*	.0		7.3	7.7	8.1	15.1	8.5	5.1	7.4	7.3	5.4	7.4
NW	1.5	6.3	1.5	.2	.0	.0		9.9	8.0	8.3	8.2	9.1	10.8	12.2	11.2	10.3	7.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.0							10.0	.0	9.4	15.0	15.1	10.2	9.9	9.0	6.7	11.8
TOT OBS	1785	4335	2167	278	20	0	8585		8.5	1945	147	1787	196	1767	225	2315	203
TOT PCT	20.8	50.5	25.2	3.2	.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	5.9	6.7	1.8	.3	.0		14.7	9.6	12.1	11.7	17.0	17.4
NE	5.1	8.2	2.4	.2	*		16.0	10.5	15.6	13.1	17.1	17.7
E	6.4	12.2	2.6	.3	*		21.5	10.4	20.6	20.0	21.2	23.5
SE	4.0	6.0	1.3	.1	*		11.4	9.8	11.3	13.1	9.6	11.5
S	2.5	2.4	.4	*	*		5.2	8.1	7.3	6.0	3.6	4.2
SW	2.1	1.6	.2	*	.0		4.0	7.5	6.1	4.1	2.8	7.0
W	3.7	3.3	.3	*	.0		7.3	7.7	8.6	8.2	7.4	5.6
NW	4.6	4.7	.5	*	.0		9.9	8.0	8.3	9.2	12.1	10.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	10.0						10.0	.0	9.6	14.6	9.7	7.1
TOT OBS	3802	3876	822	82	3	8585		8.5	2092	1983	1992	2516
TOT PCT	44.3	45.1	9.6	1.0	*		100.0		100.0	100.0	100.0	100.0

PLP100 (PRIMARY) 1953-1979
(OVER-ALL) 1872-1979

AREA CODE GULF OF MEXICO
14.0N 94.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00GMT	9.6	12.0	51.8	23.5	2.7	.3	.0	8.2	100.0	2092
06GMT	14.6	12.5	51.9	19.0	1.9	.2	.0	7.3	100.0	1983
12GMT	9.2	9.1	50.3	27.3	3.8	.3	.0	9.0	100.0	1992
18GMT	7.1	9.9	48.5	30.0	4.3	.4	.0	9.4	100.0	2518
TOT	857	928	4335	2167	274	20	0	8.5		8585
PCT	10.0	10.8	50.5	25.2	3.2	.2	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.5	3.1	5.0	2.3		4.7
NE	2.9	3.4	5.9	3.7		5.1
E	2.9	3.7	9.1	6.3		5.6
SE	1.5	1.7	4.6	3.8		5.7
S	.7	1.0	2.2	1.6		5.6
SW	.5	.8	1.4	1.3		5.6
W	1.4	1.5	3.7	1.4		4.9
NW	2.1	2.5	5.3	1.7		4.7
VAR	.0	.0	.1	.0		.1
CALM	3.1	2.7	3.1	1.0		3.9
TOT OBS	1207	1333	2501	1510	6551	5.1
TOT PCT	18.4	20.3	38.2	23.0	100.0	

TABLE 6

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

WND DIR	COC 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	WH <5/8 ANY HGT	TOTAL OBS
N	.1	*	.2	.7	1.4	.5	.2	.1	*	.1	11.1	
NE	.1	.1	.4	1.1	1.7	.6	.3	.1	*	.1	11.3	
E	.2	.2	.5	2.1	3.0	1.2	.6	.1	.1	*	13.9	
SE	.1	*	.4	1.3	1.6	.7	.3	.1	.1	*	7.1	
S	.1	*	.1	.4	.7	.3	.1	.1	.1	*	3.4	
SW	.1	*	.1	.4	.4	.1	.1	.1	*	.0	2.5	
W	*	*	.1	.5	.9	.4	.1	.1	.1	*	5.2	
NW	.1	.1	.2	.6	.7	.3	.1	.1	*	*	7.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	*	*	.4	.5	.2	.1	.0	*	*	8.5	
TOT OBS	50	36	126	501	747	295	122	43	28	27	4590	6551
TOT PCT	.8	.5	1.9	7.6	11.3	4.5	1.9	.7	.4	.4	70.1	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >SOYO	= OR >0
= OR >6500	.7	.8	.8	.8	.8	.8	.8	.8
= OR >5000	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4
= OR >3500	2.9	3.2	3.3	3.3	3.3	3.3	3.3	3.3
= OR >2000	6.8	7.5	7.7	7.7	7.7	7.7	7.7	7.7
= OR >1000	15.9	18.4	18.8	18.9	18.9	19.0	19.0	19.0
= OR >600	21.5	25.6	26.3	26.4	26.5	26.5	26.6	26.6
= OR >300	22.6	27.1	28.1	28.3	28.4	28.4	28.5	28.5
= OR >150	22.9	27.6	28.6	28.8	28.9	29.0	29.0	29.0
= OR > 0	23.1	28.0	29.2	29.5	29.6	29.7	29.8	29.8
TOTAL	1551	1879	1959	1975	1985	1990	1997	1997

TOTAL NUMBER OF OBS: 6706

PCT FREQ WH <5/8: 70.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
10.1	1.2	17.5	14.3	10.8	6.4	8.1	5.6	9.5	.4	7102

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1872-1979

AREA 09A8 GULF OF TEHUANTEPEC
14.0N 94.9W

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	*	*	*	*	*	*	*	.0	*	.1	
	NO PCP	*	*	*	*	.0	.0	*	*	.0	.0	*	
	TOT %	*	*	*	*	*	*	*	*	.0	*	.2	
1/2<1	PCP	*	*	*	*	*	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	*	*	.0	.0	.0	.0	.0	*	*	
	TOT %	*	*	.1	*	*	.0	.0	.0	.0	*	.1	
1<2	PCP	*	.0	.1	*	*	*	*	*	.0	.1	.2	
	NO PCP	.0	*	.0	*	.0	.0	*	.0	.0	*	.1	
	TOT %	*	*	.1	.1	*	*	*	*	.0	*	.3	
2<5	PCP	.1	.1	.4	.1	*	*	*	*	.0	.0	.8	
	NO PCP	*	.1	.2	.1	.1	.1	*	.1	.0	*	.7	
	TOT %	.1	.2	.5	.2	.1	.1	.1	.2	.0	*	1.5	
5<10	PCP	.2	.3	.7	.3	.2	.1	.1	.2	.0	*	2.4	
	NO PCP	.9	1.0	1.4	.9	.4	.3	.5	.6	.0	.4	6.1	
	TOT %	1.0	1.4	2.0	1.2	.6	.4	.7	.8	.0	.4	8.5	
10+	PCP	.5	.4	.4	.5	.2	.1	.2	.2	.0	*	2.0	
	NO PCP	13.0	14.0	16.0	9.5	4.3	3.3	6.3	6.8	.0	9.3	86.6	
	TOT %	13.5	14.4	16.4	10.0	4.5	3.4	6.5	6.9	.0	9.3	89.4	
	TOT OBS												8148
	TOT PCT	14.7	16.1	21.5	11.4	5.3	3.9	7.3	9.9	.0	9.8	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	*	*	*	*	*	*	*	*	.0		.1	
	11-21	.0	*	*	*	.0	.0	*	.0	.0		.1	
	22+	*	.0	*	*	.0	.0	.0	.0	.0		*	
	TOT %	*	*	.1	.1	*	*	*	*	.0	*	.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	*	*	*	*	.0	.0	.0	.0	.0		.1	
	11-21	.0	*	*	*	.0	.0	.0	.0	.0		.1	
	22+	.0	*	*	.0	.0	*	*	.0	.0		*	
	TOT %	*	*	.1	*	*	*	*	.0	.0	*	.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	*	.0	*	*	*	*	*	*	.0		.1	
	11-21	.0	*	.1	*	.0	*	*	*	.0		.2	
	22+	*	.0	*	*	.0	.0	.0	*	.0		*	
	TOT %	*	*	.1	.1	*	*	*	*	.0	*	.3	
2<5	0-3	*	*	*	.0	.0	.0	*	*	.0	*	.1	
	4-10	.1	.1	.2	.1	*	.1	.1	.1	.0		.7	
	11-21	*	.1	.3	.1	.1	*	*	*	.0		.7	
	22+	*	*	.1	*	*	*	*	*	.0		.3	
	TOT %	.1	.2	.6	.2	.1	.1	.1	.2	.0	*	1.8	
5<10	0-3	.1	.1	.1	.2	*	*	.1	.1	.0	.5	1.0	
	4-10	.6	.6	.7	.5	.3	.2	.4	.5	.0		3.9	
	11-21	.7	.6	1.0	.5	.2	.2	.1	.2	.0		3.6	
	22+	.1	.1	.2	.1	.0	*	*	*	.0		.6	
	TOT %	1.0	1.3	2.1	1.2	.6	.4	.7	.8	.0	.5	8.5	
10+	0-3	1.8	1.5	1.6	1.0	.9	.6	1.1	1.4	.0	9.4	19.3	
	4-10	7.6	7.5	10.2	5.7	2.7	2.3	4.2	5.7	.0		45.9	
	11-21	3.4	4.6	6.4	2.9	.8	.5	1.1	1.6	.0		21.3	
	22+	.8	.8	.4	.2	.1	*	*	.2	.0		2.6	
	TOT %	13.5	14.4	18.6	9.9	4.5	3.4	6.5	8.9	.0	9.4	89.0	
	TOT OBS												8363
	TOT PCT	14.7	16.0	21.5	11.4	5.3	3.9	7.3	9.9	.0	9.9	100.0	

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1872-1979

AREA 00 8 GULF OF TEHUANT
14.0N 94.9W

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	AM <5/8 ANY HGT	TOTAL OBS
00E03	.6	.5	1.1	5.3	8.1	4.3	1.4	.6	.4	.3	23.0	77.0	1831
06E09	.2	.4	1.5	6.7	9.7	3.6	1.0	.3	.5	.3	25.2	74.8	1495
12E15	1.1	.9	3.3	9.5	13.5	4.4	1.9	.3	.2	.6	35.4	64.6	1634
16E21	.4	.3	1.8	8.0	11.9	4.7	2.1	.9	.5	.3	31.2	68.8	2011
TOT	41	36	129	513	755	299	124	43	29	25	2004	4471	6975
PCT	.7	.5	1.8	7.4	10.8	4.3	1.8	.6	.4	.4	28.7	71.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.1	.3	.2	1.1	5.5	92.8	2112
06E09	.1	.1	.4	1.5	9.2	88.6	1984
12E15	.7	.4	.4	2.9	12.2	83.6	1991
16E21	.2	.1	.3	1.7	7.7	90.0	2495
TOT	24	17	25	152	733	7631	8582
PCT	.3	.2	.3	1.8	8.5	88.9	100.0

TABLE 12

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

HOUR (GMT)	<1 0 <1 OVC	<600 <1	<1000 <5	1000+ AND 5+	AM <5/8 AND 5+	TOTAL OBS
00E03	.8	2.6	8.6	15.7	75.6	1750
06E09	.7	2.7	10.2	16.1	73.7	1447
12E15	1.2	5.6	16.2	20.8	62.9	1560
16E21	.5	3.0	11.7	20.7	67.6	1949
TOT	52	230	776	1236	4692	6706
PCT	.6	3.4	11.6	18.4	70.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	*	.2	*	*	.0	.0	5	.1
90/94	.0	.0	.0	.3	1.3	.9	.3	.1	193	2.9
85/89	.0	.0	.0	.3	5.2	15.7	4.0	.8	1732	26.0
80/84	.0	.0	.0	.0	2.7	24.6	30.0	4.4	4109	61.6
75/79	.0	.0	.0	.0	.0	.5	3.9	4.5	596	8.9
70/74	.0	.0	.0	.0	.0	.0	*	.5	31	.5
TOTAL	0	0	1	38	614	2787	2544	678	6666	100.0
PCT	.0	.0	*	.6	9.2	41.8	38.2	10.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	*	*	*	.0	.0	*	.0	.0	.0
.5	.4	.5	.3	.1	.1	.3	.2	.0	.4
5.1	4.6	4.5	2.6	1.0	.9	2.1	3.0	.0	2.9
8.3	9.5	13.9	7.4	3.4	2.2	4.4	5.8	.0	6.7
.7	1.6	2.7	1.5	.7	.4	.5	.7	.0	.2
*	.1	.1	*	*	*	.1	.1	.0	*
14.7	16.2	21.7	11.2	5.3	3.6	7.4	9.7	.0	10.2

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	95	91	89	84	79	76	73	83.9	2132
06E09	92	87	86	82	79	75	73	82.4	2335
12E15	92	86	85	82	77	74	72	81.5	2022
16E21	95	92	90	84	78	75	69	84.3	2549
TOT	95	91	88	83	78	75	69	83.1	8736

TABLE 16

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	.6	11.9	50.6	30.2	6.4	77	1726
06E09	.0	.0	4.4	35.5	49.4	10.7	81	1588
12E15	.0	.2	3.2	30.3	49.9	16.4	83	1606
16E21	.0	1.3	15.6	48.7	26.5	7.8	77	1930
TOT	0	40	629	2868	2618	695	79	6850

PERIOD: (PRIMARY) 1955-1979
(OVER-ALL) 1872-1979

AREA 0076 GULF OF TEHUANTEPEC
14.0N 94.9W

TABLE 17

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

AIR-SEA THP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	* FOG	NO FOG
11/13	.0	.0	.0	.0	.1	*	*	6	.0	.1
9/10	.0	.0	.0	0	.1	*	.1	.1	30	.0	.4
7/8	.0	.0	.0	*	.3	.7	.1	82	.0	1.1
6	.0	.0	.0	*	.3	.4	*	56	.0	.7
5	.0	.0	*	.1	.8	.9	.1	143	.0	1.9
4	.0	.0	.1	.4	1.9	.7	.0	226	.0	3.0
3	.0	.0	*	.5	1.6	.7	.0	222	.0	3.0
2	.0	.0	.1	1.7	3.6	.3	.0	426	.0	5.7
1	.0	.0	.1	2.5	4.2	.1	.0	524	*	7.0
0	.0	.0	.2	4.6	4.7	.1	.0	1014	.1	13.5
-1	.0	*	.3	5.4	3.2	.1	.0	973	*	12.9
-2	.0	*	.5	12.3	1.6	*	.0	1127	*	15.0
-3	.0	.0	1.7	8.2	.9	*	.0	807	*	10.6
-4	.0	*	2.9	6.4	.3	.0	.0	722	*	9.6
-5	.0	.1	2.6	3.3	.2	.0	.0	474	.0	6.3
-6	*	.2	1.9	1.0	.1	.0	.0	237	.0	3.2
-7/-8	.0	.7	2.2	.8	.0	.0	.0	276	.0	3.7
-9/-10	.0	.6	.6	.1	.0	.0	.0	94	.0	1.3
-11/-13	*	.3	.1	*	.0	.0	.0	39	.0	.5
-14/-16	*	*	*	.0	.0	.0	.0	7	.0	.1
TOTAL	7	1046		1803		27			13	7482
		146	4156		309			7495		
PCT	.1	1.9	14.0	55.4	24.1	4.1	.4	100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	2.3	.0	.0	.0	.0	3.2
1-2	.5	4.6	.7	.0	.0	.0	5.9
3-4	.1	1.9	1.5	.1	.0	.0	3.6
5-6	.0	.4	.9	.2	.1	.0	1.6
7	.0	.0	.4	.2	.0	.0	.6
8-9	.0	.1	.3	.2	.0	.0	.6
10-11	.0	.0	*	*	.0	.0	.1
12	.0	.0	*	.0	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	9.5	3.9	.8	.1	.0	15.7

NE

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	.3	4.4	1.1	.0	.0	.0	5.5
3-4	*	2.1	2.7	.2	.0	.0	5.1
5-6	.0	.3	1.5	.4	.1	.0	2.2
7	.0	.0	1.1	.4	.0	.0	1.5
8-9	.0	.0	.2	*	.0	.0	.2
10-11	.0	.0	*	*	.0	.0	.1
12	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	8.3	6.9	1.1	.2	.0	17.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.9	.1	.0	.0	.0	2.5
1-2	.4	7.0	1.4	.0	.0	.0	9.1
3-4	.3	2.8	3.2	.1	.0	.0	6.4
5-6	.1	.4	2.6	.2	.0	.0	3.4
7	.0	.1	.6	*	.0	.0	.8
8-9	.0	.0	.1	*	.0	.0	.3
10-11	.0	.0	.2	*	.0	.0	.2
12	.0	.0	.1	*	.0	.0	.1
13-16	.0	.0	.0	*	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.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	12.2	9.8	.6	.0	.0	22.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.1	.0	.0	.0	.0	1.5
1-2	.3	2.4	.9	.0	.0	.0	3.6
3-4	.1	1.5	1.3	*	.0	.0	3.0
5-6	.1	.5	1.3	.1	.0	.0	2.0
7	.0	.1	.3	.1	.0	.0	.4
8-9	.0	.0	.1	.1	.0	.0	.2
10-11	.0	.0	.1	*	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	5.4	3.9	.4	.0	.0	10.8

PERIOD: (OVER-ALL) 1963-1979 JULY AREA CODE GULF OF TEHUANTEPEC 14.0N 94.9W

TABLE 18 (CONT)

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

S

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

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.7	.0	.0	.0	.0	.9
1-2	.2	1.5	.2	.0	.0	.0	1.9
3-4	.1	.5	.3	*	.0	.0	.7
5-6	.0	.2	.1	.0	.0	.0	.4
7	.0	.1	.1	.0	.0	.0	.2
8-9	.0	.1	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	3.1	.7	*	.0	.0	4.3

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.0	.0	.0	.0	1.3
1-2	.2	2.5	.5	.0	.0	.0	3.7
3-4	.0	1.1	.4	*	.0	.0	1.6
5-6	*	.3	.1	.0	.0	.0	.4
7	.0	.1	.0	.0	.0	.0	.1
8-9	.0	*	*	.0	.0	.0	.1
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.8	.6	.0	.0	.0	2.7

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.4	1.3	.1	.0	.0	.0	1.7	
1-2	.6	2.7	.5	.0	.0	.0	3.7	
3-4	.0	1.5	.5	.1	.0	.0	2.1	
5-6	*	.2	.7	.1	.0	.0	1.0	
7	.0	*	.1	.0	.0	.0	.1	
8-9	.0	*	*	.0	.0	.0	*	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.9	5.0	1.8	.3	.0	.0	8.0	91.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	13.4	9.8	.2	.0	.0	.0	23.4	
1-2	3.3	26.6	5.8	.0	.0	.0	35.7	
3-4	.8	11.8	10.1	.6	.0	.0	23.3	
5-6	.2	2.5	7.2	1.1	.1	.0	11.2	
7	.0	.4	2.6	.4	.0	.0	3.4	
8-9	.0	.2	.8	.4	.0	.0	1.4	
10-11	.0	.0	.4	.2	.1	.0	.6	
12	.0	.0	.1	.1	.1	.0	.2	
13-16	.0	.0	.1	.1	.0	.0	.2	
17-19	.0	.0	.0	.1	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	17.7	51.4	27.3	3.3	.2	.0	100.0	1713

PERIOD: (OVER-ALL) 1949-1979

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.3	13.2	15.1	7.7	2.7	1.2	.5	.2	.2	*	*	.0	.0	.0	.0	.0	.0	.0	.0	2729	3
6-7	.1	1.9	8.1	6.4	4.3	1.4	.6	.2	.3	*	*	.0	.0	.0	.0	.0	.0	.0	.0	1528	5
8-9	*	.7	2.6	3.0	1.9	1.0	.6	.1	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	616	5
10-11	.0	.7	.9	1.0	.6	.4	.1	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	264	6
12-13	.0	.0	.7	.5	.3	.2	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	117	6
>13	.0	.0	.0	.3	.2	.2	*	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	70	8
INDET	5.6	1.1	2.1	1.7	.7	.2	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	701	2
TOTAL	606	1067	1776	1364	670	293	130	45	51	15	5	1	0	0	0	0	0	0	0	6025	4
PCT	10.1	17.7	29.5	22.6	11.1	4.9	2.2	.7	.8	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1953-1979
(OVERHALL) 1903-1979

TABLE 1

AREA NO. 4 GULF OF TONKIN AREA
14-20N 99-108E

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WND DIR	PRECIPITATION TYPE: RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN HOUR	PCPN PAST 3 HOURS	THDR STNS	FOG NO PCPN	FOG W PCPN PAST HR	OTHER WEATHER PRESENT: HAZE	FOG NO HAZE	DUST SNOW	NO SIG WEA
N	1.5	.9	.2	.0	.0	.0	.1	2.0	2.5	7.1	.1	.0	.1	.2	.1	87.0	
NE	7.2	3.7	3.7	.0	.0	.0	.1	6.6	7.4	6.6	.1	.0	.3	.0	.1	90.3	
E	4.6	2.4	3.5	.1	.0	.0	.0	8.3	9.0	6.7	.2	.0	.4	.0	.1	90.3	
SE	7.2	3.3	3.6	.2	.0	.0	.1	11.1	5.0	7.0	.2	.0	.3	.0	.2	79.0	
S	5.4	2.5	3.5	.2	.0	.0	.0	8.3	4.3	3.6	.4	.0	.4	.0	.2	87.0	
SW	4.9	3.1	3.6	.2	.0	.0	.1	14.3	7.8	6.5	.2	.0	.3	.0	.1	73.0	
W	5.1	2.7	3.4	.2	.0	.0	.0	9.1	2.6	9.6	.2	.0	.1	.0	.1	79.0	
NW	4.4	2.3	.1	.0	.1	.0	.1	9.2	2.1	6.6	.2	.0	.3	.0	.1	86.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.8	.2	.3	.0	.0	.0	.0	3.0	.4	13.7	.1	.0	1.2	.0	.1	95.0	
TOT PCT	3.4	1.9	1.1	.1	.0	.0	.0	6.4	4.9	7.5	.2	.0	.4	.0	.1	90.0	
TOT OBS	9419																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (LMT)	PRECIPITATION TYPE: RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN HOUR	PCPN PAST 3 HOURS	THDR STNS	FOG NO PCPN	FOG W PCPN PAST HR	OTHER WEATHER PRESENT: HAZE	FOG NO HAZE	DUST SNOW	NO SIG WEA
00-03	2.1	.0	.0	.0	.0	.0	.0	3.0	.0	3.6	.1	.0	.1	.1			
04-09	2.5	1.2	.6	.1	.0	.0	.1	4.6	2.3	19.0	.2	.0	.2				
10-15	4.8	3.3	2.0	.2	.3	.0	.1	10.0	4.3	11.2	.2	.0	.2		.1		
16-21	7.0	3.1	3.2	.2	.0	.0	.0	9.0	7.0	.9	.2	.0	.1		.1		
TOT PCT	3.6	1.9	1.1	.1	.0	.0	.0	6.1	3.9	7.7	.2	.0	.4	.0	.1	91.0	
TOT OBS	4316																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	WIND SPEED (KNOTS): 0-3	4-10	11-16	17-21	22-27	28+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (LMT): 00	03	06	09	12	15	18	21
N	1.9	6.7	3.6	.6	.1	.0		12.9	9.6	1.3	3.3	9.2	12.1	16.0	15.0	6.1	6.2
NE	1.4	7.2	4.7	.5	.1	.0		13.9	10.3	13.0	9.1	17.4	13.6	14.9	14.7	14.0	11.7
E	2.3	11.1	6.8	.4	.1	.0		20.8	11.0	19.6	17.4	24.2	20.6	17.0	24.6	27.1	23.0
SE	1.8	7.2	3.7	.3	.1	.0		13.2	9.4	14.6	14.9	19.9	14.4	9.3	12.2	11.5	11.1
S	.8	3.6	1.3	.1	.1	.0		5.9	8.3	3.1	6.8	6.3	5.6	4.1	5.4	4.5	4.5
SW	.9	2.9	1.1	.1	.1	.0		5.1	8.7	6.3	10.3	5.5	4.7	4.4	5.7	3.9	4.9
W	1.5	5.9	1.7	.1	.1	.0		9.1	7.2	11.3	9.5	10.1	8.1	7.1	7.4	9.6	9.4
NW	1.6	6.5	3.6	.1	.1	.0		12.1	7.8	8.2	9.7	9.2	5.8	11.1	6.1	6.1	12.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.2							10.2	.0	17.1	17.6	24.6	6.6	15.6	5.3	11.9	9.1
TOT OBS	1814	4299	2452	241	21	0			8.2	1625	121	1741	198	1736	735	1311	216
TOT PCT	25.7	51.0	29.6	2.6	.2	.0		17.1		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WND DIR	WIND SPEED (KNOTS): 0-6	7-16	17-27	28+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (LMT): 00 03	06	09	12	15	18	21
N	5.1	5.9	1.2	.1	*	12.6	9.6	1.4	3.4	9.4	12.1	16.3	15.3	6.3
NE	4.5	7.9	1.4	.1	*	13.4	10.1	12.7	9.1	17.7	13.7	14.7	15.7	11.9
E	6.6	13.6	2.1	.1	*	22.4	10.4	19.5	17.6	24.2	20.7	17.0	24.8	23.1
SE	4.6	6.6	1.2	.1	*	12.5	9.4	14.	14.6	19.9	14.4	9.3	12.2	11.5
S	2.5	2.6	.4	*	*	5.6	8.3	3.2	6.8	6.3	5.6	4.2	5.4	4.5
SW	2.4	2.1	.2	*	*	5.1	8.7	6.3	10.3	5.5	4.7	4.4	5.7	3.9
W	4.6	4.1	.3	*	*	9.1	7.5	11.3	10.1	8.1	7.1	7.4	9.6	9.4
NW	4.9	4.2	.4	*	*	10.1	7.8	8.2	9.7	9.2	5.8	11.1	6.1	12.1
VAR	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.2					10.2	.0	17.1	17.6	24.6	6.6	15.6	5.3	11.9
TOT OBS	2518	3767	690	67	5	6367		1625	121	1741	198	1736	735	1311
TOT PCT	45.7	45.1	8.3	.8	.1		10.1			100.0	100.0	100.0	100.0	100.0

AUGUST

PERIOD: (PRIMARY) 1957-1970
(OVERHALL) 1900-1970

AREA 0078 GULF OF TEHUANTEPEC
14.0N 96.0W

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
00GMT	10.4	11.2	55.8	22.2	2.2	.4	.0	7.9	100.0	2036
06GMT	14.3	14.3	50.7	19.1	1.5	.2	.0	7.1	100.0	1941
12GMT	9.9	10.3	53.0	25.6	3.3	.4	.0	8.6	100.0	1969
18GMT	7.1	10.1	49.7	30.1	2.9	.2	.0	9.1	100.0	2401
TOT	854	960	4259	2052	201	31	5	8.2		8247
PCT	10.2	11.6	51.3	24.8	2.4	.4	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OVSCN	TOTAL OBS	MEAN CLOUD COVER
N	3.1	7.4	44.2	1.7		6.5
NE	2.6	5.1	5.4	2.6		6.9
E	2.4	4.1	5.7	5.3		7.5
SE	1.7	2.1	5.7	3.7		7.6
S	.6	1.0	2.6	1.7		5.7
SW	.6	.6	2.1	1.5		7.0
W	1.7	1.5	3.4	1.9		6.1
NW	2.3	2.4	3.3	1.5		6.5
VAR	.0	.0	.0	.0		.0
CALM	3.0	2.5	3.2	.4		3.3
TOT OBS	1196	1384	2495	1236	6413	6.9
TOT PCT	18.6	21.6	38.9	19.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NM 24/81) AND OCCURRENCE OF NM VIS/8 BY WIND DIRECTION

WND DIR	100-199	200-299	300-599	600-999	1000-1999	2000-3499	3500-4999	5000-6499	6500-7999	8000+	NM VIS/8 ANY HGT	TOTAL OBS
N	.1	.0	.1	.8	1.2	.4	.2	.1	*	.0	10.1	
NE	.1	*	.2	1.0	1.1	.5	.4	.1	.1	*	10.3	
E	.2	.1	.4	2.0	2.6	.9	.5	.1	.1	.1	13.3	
SE	.1	.1	.5	1.5	3.9	.7	.2	.1	.1	*	7.6	
S	*	*	.1	.6	.8	.2	.1	.1	*	*	3.8	
SW	.1	*	.1	.6	.8	.2	.1	*	*	*	2.9	
W	.1	*	.3	.9	.9	.5	.2	*	*	.0	6.2	
NW	*	*	.2	.5	.8	.5	.1	*	*	*	7.6	
VAR	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	
CALM	*	*	*	.4	.5	.2	.1	.1	*	*	8.7	
TOT OBS	56	21	126	539	677	265	126	34	23	19	4523	6413
TOT PCT	.9	.3	2.0	9.4	10.6	4.1	2.0	.6	.4	.3	70.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NM 24/81) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) ≥ 0R >10	≥ 0R ≥5	≥ 0R ≥2	≥ 0R ≥1	≥ 0R ≥1/2	≥ 0R ≥1/4	≥ 0R >5040	≥ 0M ≥0
≥ 0M ≥6560	.6	.7	.7	.7	.7	.7	.7	.7
≥ 0M ≥5000	1.1	1.2	1.2	1.3	1.3	1.3	1.3	1.3
≥ 0M ≥3500	2.9	3.1	3.2	3.2	3.2	3.2	3.2	3.2
≥ 0M ≥2000	6.5	7.1	7.2	7.3	7.3	7.3	7.3	7.3
≥ 0M ≥1000	15.3	17.2	17.5	17.6	17.7	17.7	17.7	17.7
≥ 0M ≥600	21.2	25.0	25.7	25.9	25.9	25.9	25.9	25.9
≥ 0M ≥300	22.4	26.3	27.4	27.6	27.8	27.8	27.9	27.9
≥ 0M ≥150	22.6	27.0	27.7	28.1	28.1	28.2	28.2	28.2
≥ 0M > 0	22.8	27.5	28.4	28.6	28.6	28.9	29.0	29.1
TOTAL	1504	1816	1876	1899	1904	1909	1913	1915

TOTAL NUMBER OF OBS. 6596 PCT FREQ NM VIS/8: 71.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUD (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
4.8	17.6	19.1	14.9	10.2	6.8	7.2	5.9	8.7	.5	6978

AUGUST

PERIOD (PRIMARY) 1953-1979 AREA OVER GULF OF TEHUANTEPEC
(OVER-ALL) 1900-1979 14.0N 94.0W

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	*	.0	*	*	.1	*	.0	.0	.0	.1	
	NO PCP	*	.0	*	*	.0	.0	*	.0	*	*	.1	
	TOT %	*	*	*	*	*	.1	*	.0	.0	*	.2	
1/2<1	PCP	.0	*	*	*	.0	*	*	*	.0	.0	.1	
	NO PCP	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	*	*	*	.0	*	*	*	.0	.0	.1	
1<2	PCP	.0	*	.1	.1	*	*	.1	*	.0	.0	.4	
	NO PCP	.0	*	.1	*	*	*	*	*	.0	*	.1	
	TOT %	.0	*	.2	.1	.1	*	.1	*	.0	*	.5	
2<5	PCP	*	.1	.2	.2	.1	.1	.1	*	.1	.0	.8	
	NO PCP	.1	.1	.1	.1	*	*	*	*	.0	*	.5	
	TOT %	.1	.1	.3	.3	.1	.1	.1	*	.0	*	1.3	
5<10	PCP	.1	.4	.6	.6	.1	.2	.4	.1	.0	*	2.7	
	NO PCP	.7	.7	1.2	1.0	.5	.6	.6	.6	.1	.4	6.1	
	TOT %	.8	1.1	1.9	1.5	.6	.7	1.0	.7	.1	.4	8.8	
10+	PCP	.2	.4	.7	.4	.2	.3	.3	.2	.1	.1	2.6	
	NO PCP	11.6	12.2	17.6	10.3	4.9	3.7	3.7	9.1	.1	9.2	86.3	
	TOT %	11.9	12.6	18.3	10.7	5.1	4.0	4.0	9.3	.0	9.3	89.1	
	TOT OBS												7676
	TOT PCT	12.4	13.9	20.7	12.6	5.9	5.0	9.2	10.1	.0	9.8	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	.0	.0	*	*	*	*	*	*	.0		.1	
	11-21	*	*	*	.0	.0	*	*	*	.0		.1	
	22+	*	*	*	.0	*	*	*	.0	.0		.1	
	TOT %	*	*	*	*	*	.1	*	*	.0	*	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
	4-10	.0	.0	*	*	.0	.0	*	.0	.0		.1	
	11-21	.0	*	*	*	.0	.0	.0	*	.0		.1	
	22+	.0	.0	.0	.0	.0	*	.0	.0	.0		*	
	TOT %	.0	*	*	*	.0	*	*	*	.0	.0	.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	*	*	*	*	*	
	4-10	.0	.1	*	*	*	*	*	*	*		.1	
	11-21	.0	*	.1	.1	*	*	*	*	*		.3	
	22+	*	*	*	*	*	*	*	.0	.0		.1	
	TOT %	.0	.1	.2	.1	.1	*	.1	*	.0	*	.4	
2<5	0-3	.0	*	*	*	.0	.0	*	.0	.0	*	.1	
	4-10	*	.1	.1	.1	.1	.1	*	*	.0		.5	
	11-21	*	.1	.1	.1	.1	.1	.1	*	.0		.6	
	22+	*	*	*	*	*	*	.0	.0	.0		.2	
	TOT %	.1	.2	.3	.3	.1	.2	.2	*	.0	*	1.4	
5<10	0-3	.1	.1	.1	.1	*	.1	.2	.1	.0	*	1.1	
	4-10	.4	.5	.6	.6	.3	.3	.6	.4	.1		3.8	
	11-21	.3	.5	.6	.7	.2	.1	.2	.3	.0		3.4	
	22+	*	.1	.2	.1	*	.1	*	*	.0		.5	
	TOT %	.8	1.0	1.4	1.5	.6	.7	1.0	.8	.0	.4	8.8	
10+	0-3	1.8	1.4	1.9	1.2	.8	.8	1.3	1.5	.0	9.5	20.1	
	4-10	6.3	6.7	10.2	6.4	3.2	2.5	5.3	6.1	.0		46.6	
	11-21	3.2	4.1	5.6	2.6	1.0	.7	1.3	1.6	.0		20.1	
	22+	.6	.4	.5	.2	*	.1	*	*	.0		1.8	
	TOT %	11.9	12.5	18.1	10.6	5.1	4.1	7.9	9.2	.0	9.5	88.9	
	TOT OBS												8097
	TOT PCT	12.8	13.9	20.6	12.6	5.9	5.0	9.1	10.1	.0	10.0	100.0	

AUGUST

PERIOD (HH:MMLST) 1955-1979
(USER-FILE) 1907-1979

APLA OMPS GULF OF TEHUANTEPEC
14.0N 94.9W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,HH 24/83) AND OCCURRENCE OF 5M CS/6 BY HOUR

HOUR (LMST)	<50	150 499	500 999	1000 1999	2000 2999	3000 4999	5000 6999	7000	UNLIM	TOTAL OBS	NM CS/6 AND HGT	TOTAL OBS
01/04	.6	.3	1.2	5.7	7.3	3.5	1.3	.4	.3	.2	20.0	74.2	1005
04/07	.9	.3	1.4	6.4	6.4	2.9	1.9	.3	.3	.3	22.0	73.2	1094
07/10	1.2	.5	3.1	10.8	12.7	3.6	1.7	.6	.4	.6	35.3	64.7	1651
10/13	.7	.4	2.1	8.7	11.6	5.5	2.1	.8	.4	.1	32.0	67.9	1910
13/16	.6	.3	1.9	7.6	10.0	4.0	1.1	.6	.3	.3	28.1	71.9	1760
TOT	39	21	104	545	686	271	132	38	24	21	1929	4135	6863
PCT	.6	.3	1.5	7.9	10.0	3.9	1.9	.6	.3	.3	28.1	71.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (SM) BY HOUR

HOUR (LMST)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
01/04	.1	*	.5	1.1	5.1	93.3	2057
04/07	.3	.1	.5	1.2	7.8	90.0	1937
07/10	.5	.2	1.	2.1	13.5	82.8	1989
10/13	.3	.1	.9	1.1	9.0	89.4	2365
TOT	19	10	46	113	729	7428	8341
PCT	.2	.1	.6	1.4	8.7	89.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (SM) AND/OR CEILING HGT (FEET,HH 24/83) BY HOUR

HOUR (LMST)	<150 <500	<600 <1	<1000 <5	1000+ AND5+	NM CS/6 AND 5+	TOTAL OBS
01/04	.6	2.1	8.5	13.1	78.4	1736
04/07	.9	2.2	9.5	14.7	75.7	1906
07/10	1.2	4.8	17.0	19.6	93.2	1592
10/13	.7	3.3	12.7	20.9	66.4	1661
TOT	55	205	789	1136	4671	6556
PCT	.8	3.1	12.0	17.2	70.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-20	21-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99				*	.1	.5	.5	.0	9	.1
90/94	.0	.0	*	.2	1.3	.6	.7	.1	101	2.6
85/89	.1	.1	.2	.2	4.8	16.7	9.9	.4	1713	26.1
80/84	.1	.1	.2	.2	2.5	25.8	29.2	4.1	4015	61.6
75/79	.1	.1	.1	*	.6	3.7	4.5	.5	577	8.9
70/74	.0	.0	.0	.0	*	.1	*	.1	24	.4
TOTAL	.3	.3	.5	35	569	2418	2469	643	6535	100.0
PCT	.1	.1	.1	.5	8.7	43.1	37.8	9.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

TEMP F	N	NE	E	SE	S	SW	W	NW	VAR	CALM
95/99	*	*	*	*	.0	*	*	*	.0	.0
90/94	.5	.3	.3	.2	.2	.1	.3	.3	.0	.3
85/89	4.3	4.2	4.5	2.5	1.3	.9	2.7	3.1	.0	2.9
80/84	7.2	7.5	13.5	6.2	3.5	3.1	5.3	6.0	.0	6.9
75/79	.7	1.2	1.3	1.5	.8	.4	.4	.5	.0	.3
70/74	*	*	.1	.1	*	*	*	.0	.0	.0
TOTAL	13.5	13.6	20.8	12.8	5.7	5.0	9.3	10.1	.0	10.4

TABLE 15

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

HOUR (LMST)	MAX	99%	95%	90%	50%	10%	MIN	MEAN	TOTAL OBS
01/04	95	93	89	84	79	76	70	84.0	2243
04/07	95	93	89	83	79	76	72	82.5	2000
07/10	96	97	89	83	79	76	72	83.6	2024
10/13	97	95	89	82	79	76	69	84.5	2428
13/16	95	92	93	84	79	76	69	83.2	4535
TOT	96	93	88	83	79	76	69	83.2	4535

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (LMST)	0-20	20-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
01/04	.0	.9	11.3	13.6	29.7	44.4	77	1726
04/07	.0	.1	4.6	19.4	46.3	29.5	80	1519
07/10	.0	.1	2.2	20.6	53.6	16.1	83	1424
10/13	.1	.0	2.2	20.6	53.6	16.1	83	1424
13/16	.1	1.2	15.7	41.3	25.5	7.5	76	1432
TOT	.0	39	516	1011	2532	656	79	8725
PCT	.0	.4	5.6	11.0	27.5	7.1	79	8725

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1900-1979

AREA NO'S GULF OF TEHUANTEPEC
14.0N 96.0W

TABLE 17

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

AIR-SEA	<=						>	TOT	#	W
TMP DIF	72	76	80	84	88	92			FOG	FOG
11/13										
9/10										
7/8										
5/6										
3/4										
1/2										
0/-1										
-2/-3										
-4/-5										
-6/-7										
-8/-9										
-10/-11										
-12/-13										
-14/-15										
-16/-17										
-18/-19										
-20/-21										
-22/-23										
-24/-25										
-26/-27										
TOTAL										
		139			296			3265		
PCT	.1	1.9	13.3	56.2	24.1	4.1	.3	100.0	.2	99.8

PERIOD: (OVER-ALL) 1953-1979

TABLE 18

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

ALL

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1							
1-2							
3-4							
5-6							
7							
8-9							
10-11							
12							
13-16							
17-19							
20-22							
23-25							
26-32							
33-40							
41-48							
49-60							
61-70							
71-86							
87+							
TOT PCT	1.5	9.6	4.4	0.0	0.0	0.0	15.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1							
1-2							
3-4							
5-6							
7							
8-9							
10-11							
12							
13-16							
17-19							
20-22							
23-25							
26-32							
33-40							
41-48							
49-60							
61-70							
71-86							
87+							
TOT PCT	1.5	12.3	8.7	1.6	0.0	0.0	24.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1							
1-2							
3-4							
5-6							
7							
8-9							
10-11							
12							
13-16							
17-19							
20-22							
23-25							
26-32							
33-40							
41-48							
49-60							
61-70							
71-86							
87+							
TOT PCT	1.5	9.6	4.4	0.0	0.0	0.0	15.7

PERIOD (OVER-ALL) 1965-1979 AUGUST AREA GULF OF TEHUANTEPEC

TABLE 18 (CONT)

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

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

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

TOTAL PCT

MEAN SPEED (KTS) VS SEA HEIGHT (FT)

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

PERIOD: (OVER-ALL) 1964-1979 TABLE 19

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

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

SEPTEMBER

PERIOD: (PRIMARY) 1953-1976
(BRIEF-ALL) 1866-1976

ARCS FOR CALM OF TEMPERATURE
3HOUR 24HR

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WIND DIR	RAIN	RAIN SNOW	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR STRM	FOG NO PCPN	FOG W PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	SPRAY DUST SNOW	NO SIG WEA
N	3.6	2.7	1.3	.0	.0	.0	.1	6.7	3.7	5.0	.3	.1	.8	.1	83.8
NE	4.3	2.6	2.2	.0	.0	.0	.0	7.1	4.5	4.6	.2	.2	.4	.1	82.4
E	6.0	3.5	2.0	.0	.0	.0	.0	11.4	4.8	4.6	.1	.2	.3	.2	79.1
SE	6.4	3.6	2.4	.0	.0	.1	.0	11.9	6.1	5.8	.1	.2	.4	.2	78.2
S	7.6	4.7	3.0	.0	.0	.1	.0	15.3	9.1	3.4	.2	.2	.2	.1	76.9
SW	8.4	6.0	4.3	.0	.0	.0	.0	19.3	5.6	3.7	.4	.2	.5	.1	73.6
W	6.6	3.2	2.6	.0	.0	.0	.0	12.4	6.1	4.3	.2	.2	.3	.2	77.4
NW	5.6	2.0	2.3	.0	.0	.0	.1	10.1	6.1	7.4	.2	.2	.3	.2	78.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.7	.3	.4	.0	.0	.0	.1	1.6	2.2	6.1	.1	.1	.1	.0	87.3
TOT PCT	5.6	3.1	2.1	.0	.0	.0	*	10.7	4.7	5.2	.2	*	.4	*	79.0
TOT OBS:	7653														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SNOW	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR STRM	FOG NO PCPN	FOG W PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	SPRAY DUST SNOW	NO SIG WEA
00E03	3.4	2.4	1.9	.1	.0	.0	.1	7.7	3.5	.6	.1	.0	.3	.1	87.8
04E08	4.7	2.9	2.2	.0	.0	.0	.0	9.8	4.5	14.7	.2	.2	.5	.2	74.5
12E15	6.4	4.5	2.9	.0	.0	.0	.1	10.4	5.9	7.4	.3	.3	.3	.3	84.9
16E23	6.9	2.4	1.8	.1	.1	.0	*	9.4	4.7	.9	.2	.2	.5	.1	87.0
TOT PCT	5.5	3.2	2.1	.0	.0	.0	*	10.7	4.6	5.5	.2	*	.4	*	78.8
TOT OBS:	1843														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)				
WIND DIR	0-3	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	2.4	.7	.2	.0		10.3	10.4	6.4	6.9	7.5	7.0	11.9	13.4	13.2	9.9
NE	1.0	4.5	3.5	.8	.1	.0		11.0	11.3	6.1	6.3	7.1	6.4	13.6	15.5	14.5	11.5
E	1.6	6.2	5.0	.7	*	.0		15.6	10.1	10.8	10.6	10.2	10.2	18.2	18.7	17.5	14.2
SE	1.3	5.8	2.6	.1	.0	*		9.7	8.9	11.1	8.5	10.6	12.4	7.9	7.8	7.2	7.0
S	.9	4.1	1.8	.1	*	.0		7.0	8.5	7.4	6.8	8.8	9.6	6.9	7.8	5.8	6.9
SW	1.0	5.2	2.7	.4	.1	*		9.4	9.9	11.3	11.1	9.2	8.9	7.6	11.0	8.8	11.1
W	1.7	6.9	5.1	.5	*	*		14.3	9.9	19.1	17.9	17.6	17.2	14.6	14.2	13.6	18.4
NW	1.4	7.0	2.7	.3	*	*		11.3	8.2	9.5	13.6	10.5	10.3	13.6	9.2	11.6	13.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.5							9.5	.0	8.2	10.2	14.0	13.0	6.4	10.4	6.6	8.2
TOT OBS	1618	4043	2119	299	42	7	8163		8.5	1683	347	1722	192	1659	704	2151	196
TOT PCT	19.8	50.0	26.0	3.7	.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)			
WIND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.2	6.2	3.5	.6	*		10.3	10.4	6.3	7.5	11.6	13.0
NE	3.3	5.5	2.0	.2	*		11.0	11.3	6.7	7.1	13.2	14.2
E	5.3	8.3	1.4	.2	*		15.6	10.1	15.4	14.0	15.7	17.2
SE	4.0	4.8	.6	*	*		9.7	8.9	10.9	11.0	7.6	7.0
S	3.0	3.4	.5	*	*		7.0	8.4	8.5	8.8	5.2	5.7
SW	3.3	6.9	1.1	.1	*		9.4	9.9	13.3	9.2	8.1	9.1
W	5.6	8.7	1.4	.2	*		16.3	9.6	19.0	17.8	14.5	19.0
NW	5.0	5.3	.9	.1	*		11.3	8.7	9.8	11.1	13.5	11.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	9.5						9.5	.0	8.2	10.4	6.6	8.5
TOT OBS	3525	3678	855	96	9	8163		6.4	2630	1924	1882	2347
TOT PCT	43.2	45.1	10.5	1.2	.1		100.0		100.0	100.0	100.0	100.0

PERIOD: SEPTEMBER 1962-1972
CLIMATOLOGY 1948-1972

AREA CODE GULF OF TEHUANTEPEC
20.0N 95.0W

TABLE A

PERCENTAGE FREQUENCY OF WIND SPEED BY MONTH (KTS)

MONTH	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
JANUARY	4.7	11.3	35.0	39.4	9.2	0.3	0.1	8.9	17.0	4030
FEBRUARY	13.9	11.0	37.1	24.9	3.0	0.1	0.0	7.9	15.0	3926
MARCH	9.9	9.9	40.8	29.7	3.7	0.1	0.0	8.4	15.0	3962
APRIL	8.4	10.4	44.8	29.4	2.5	0.0	0.0	8.5	17.0	3947
MAY	17.5	9.2	47.5	22.5	2.9	0.1	0.0	8.0	17.0	4193
JUNE	9.4	11.7	51.3	25.6	1.9	0.0	0.0		17.0	

TABLE B

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

WIND DIR	0	1-2	3-4	5-7	8 (OVC)	TOTAL OBS	MEAN CLOUD COVER
N	21.1	21.1	24.6	21.5	11.7		4.0
NNE	20.1	21.1	23.3	21.7	13.8		4.1
NE	19.9	21.1	23.4	21.5	14.1		4.1
ENE	19.1	21.1	23.1	21.6	15.1		4.2
E	19.1	21.1	23.1	21.6	15.1		4.2
ESE	19.1	21.1	23.1	21.6	15.1		4.2
SE	19.1	21.1	23.1	21.6	15.1		4.2
SSE	19.1	21.1	23.1	21.6	15.1		4.2
S	19.1	21.1	23.1	21.6	15.1		4.2
SSW	19.1	21.1	23.1	21.6	15.1		4.2
SW	19.1	21.1	23.1	21.6	15.1		4.2
WSW	19.1	21.1	23.1	21.6	15.1		4.2
W	19.1	21.1	23.1	21.6	15.1		4.2
WNW	19.1	21.1	23.1	21.6	15.1		4.2
NW	19.1	21.1	23.1	21.6	15.1		4.2
NNW	19.1	21.1	23.1	21.6	15.1		4.2
CALM	19.1	21.1	23.1	21.6	15.1		4.2
TOT OBS	3726	3734	4081	3787	2477	17805	4.2
TOT PCT	17.6	19.7	20.7	19.6	12.6		

TABLE C

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT)(GM 24/83) AND OCCURRENCE OF SM <5/8 BY WIND DIRECTION

WIND DIR	0-100	150-200	300-500	600-900	1000-1900	2000-2900	3000-4000	5000-6000	6500-7000	8000+	SM <5/8 ANY WAY	TOTAL OBS
N	0.1	0.1	0.2	0.4	3.7	1.5	1.2	1.1	0.4	0.6	7.0	
NNE	0.1	0.1	0.2	0.2	3.4	1.5	1.2	1.1	0.4	0.6	7.0	
NE	0.1	0.1	0.2	0.2	3.4	1.5	1.2	1.1	0.4	0.6	7.0	
ENE	0.1	0.1	0.2	0.2	3.4	1.5	1.2	1.1	0.4	0.6	7.0	
E	0.1	0.1	0.2	0.2	3.4	1.5	1.2	1.1	0.4	0.6	7.0	
ESE	0.1	0.1	0.2	0.2	3.4	1.5	1.2	1.1	0.4	0.6	7.0	
SE	0.1	0.1	0.2	0.2	3.4	1.5	1.2	1.1	0.4	0.6	7.0	
SSE	0.1	0.1	0.2	0.2	3.4	1.5	1.2	1.1	0.4	0.6	7.0	
S	0.1	0.1	0.2	0.2	3.4	1.5	1.2	1.1	0.4	0.6	7.0	
SSW	0.1	0.1	0.2	0.2	3.4	1.5	1.2	1.1	0.4	0.6	7.0	
SW	0.1	0.1	0.2	0.2	3.4	1.5	1.2	1.1	0.4	0.6	7.0	
WSW	0.1	0.1	0.2	0.2	3.4	1.5	1.2	1.1	0.4	0.6	7.0	
W	0.1	0.1	0.2	0.2	3.4	1.5	1.2	1.1	0.4	0.6	7.0	
WNW	0.1	0.1	0.2	0.2	3.4	1.5	1.2	1.1	0.4	0.6	7.0	
NW	0.1	0.1	0.2	0.2	3.4	1.5	1.2	1.1	0.4	0.6	7.0	
NNW	0.1	0.1	0.2	0.2	3.4	1.5	1.2	1.1	0.4	0.6	7.0	
CALM	0.1	0.1	0.2	0.2	3.4	1.5	1.2	1.1	0.4	0.6	7.0	
TOT OBS	17.6	19.7	20.7	19.6	12.6	9.5	7.5	7.0	2.5	3.5	38.5	6237
TOT PCT	17.6	19.7	20.7	19.6	12.6	9.5	7.5	7.0	2.5	3.5	38.5	100.0

TABLE D

C MULTIPLE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (GM 24/83) AND VSBY (NM)

CEILING / VISBY	1 OR MORE	1 OR MORE	3 OR MORE	5 OR MORE	7 OR MORE	9 OR MORE	9 OR MORE	1 OR MORE
	1/2	1	2	3	5	7	9	
1 OR MORE 200	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1 OR MORE 400	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1 OR MORE 600	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1 OR MORE 1000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1 OR MORE 2000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1 OR MORE 3000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1 OR MORE 5000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1 OR MORE 6500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1 OR MORE 8000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3 OR MORE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TOTAL NUMBER OF OBS: 6237 PCT FREQ OF OCCUR: 0.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	TOTAL OBS
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

PERIOD: (PRIMARY) 1955-1979
(OVER-ALL) 1886-1979

AREA 06'8 GULF OF TEHUANTEPEC
14.0N 96.9W

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	*	*	*	.1	*	.0	*	.0	.0	.2	
	NO PCP	*	*	*	*	.0	.0	*	*	.0	.0	.1	
	TOT %	*	*	.1	.1	.1	*	*	*	.0	.0	.3	
1/2<1	PCP	.0	*	*	*	*	.1	*	*	.0	.0	.2	
	NO PCP	.0	*	*	*	.0	*	.0	*	.0	.0	.1	
	TOT %	.0	*	.1	*	*	.1	*	*	.0	.0	.3	
1<2	PCP	.0	*	*	.1	*	.1	.1	*	.0	*	.3	
	NO PCP	*	*	*	*	*	*	*	*	.0	.0	.2	
	TOT %	*	.1	*	.1	*	.1	.1	*	.0	*	.4	
2<5	PCP	.1	.1	.3	.2	.1	.3	.2	.1	.0	*	1.3	
	NO PCP	.1	.1	.1	.2	*	.1	.1	.1	.0	*	.7	
	TOT %	.2	.2	.4	.1	.2	.4	.3	.2	.0	.1	2.0	
5<10	PCP	.2	.3	.6	.5	.4	.7	.8	.5	.0	*	4.1	
	NO PCP	.9	.9	1.2	.7	.6	1.0	1.2	.8	.0	.6	7.6	
	TOT %	1.0	1.3	1.9	1.2	1.0	1.7	2.1	1.3	.0	.7	12.0	
10+	PCP	.7	.4	.8	.3	.4	.6	.8	.5	.0	.1	4.4	
	NO PCP	8.4	9.3	12.6	7.7	5.3	6.6	13.0	9.1	.0	8.2	80.5	
	TOT %	9.1	9.7	13.3	8.2	5.7	7.2	13.8	9.6	.0	8.3	84.9	
	TOT OBS												7623
	TOT PCT	10.4	11.3	15.7	9.7	6.9	8.5	16.2	11.2	.0	9.1	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	*	.0	*	*	.0	.0	*	
	4-10	*	*	*	*	*	.0	*	*	.0		.1	
	11-21	*	.0	*	*	*	*	*	*	.0		.1	
	22+	*	*	*	*	*	*	.0	*	.0		.1	
	TOT %	*	*	.1	.1	.1	*	*	*	.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		.1	
	11-21	.0	*	.1	*	*	.1	*	*	.0		.2	
	22+	.0	*	*	.0	*	*	.0	*	.0		.1	
	TOT %	.0	*	.1	*	*	.1	*	*	.0	.0	.4	
1<2	0-3	.0	.0	.0	.0	.0	.0	*	.0	.0	*	*	
	4-10	*	*	*	*	*	.1	*	*	.0		.2	
	11-21	*	*	.1	.1	*	*	*	*	.0		.3	
	22+	.0	*	*	.0	.0	*	*	.0	.0		.1	
	TOT %	*	.1	*	.1	*	.1	.1	.1	.0	*	.6	
2<5	0-3	*	.0	*	*	*	*	*	*	.0	.1	.2	
	4-10	.1	.1	1	*	.1	.2	.1	.1	.0		.4	
	11-21	.1	.1	.2	.1	.1	.2	.1	.1	.0		1.0	
	22+	.1	*	*	*	*	*	.1	*	.0		.3	
	TOT %	.3	.2	.4	.2	.2	.4	.3	.2	.0	.1	2.3	
5<10	0-3	.1	*	.1	.1	.1	.1	.1	.1	.0	.7	1.3	
	4-10	.4	.5	.7	.6	.5	.8	1.0	.6	.0		5.0	
	11-21	.4	.5	.7	.5	.4	.6	.8	.5	.0		4.3	
	22+	.1	.2	.2	*	.1	.1	.2	.1	.0		1.1	
	TOT %	1.0	1.2	1.9	1.2	1.0	1.6	2.0	1.3	.0	.7	11.7	
10+	0-3	1.3	1.0	1.5	1.2	.8	1.0	1.5	1.2	.0	8.5	18.0	
	4-10	4.9	4.9	7.[illegible]	5.0	3.5	4.2	7.7	6.2	.0		43.8	
	11-21	2.1	2.9	[illegible]	1.9	1.3	1.6	4.2	2.1	.0		20.2	
	22+	.8	.7	.[illegible]	.1	*	.2	.3	.2	.0		2.5	
	TOT %	9.0	9.5	1[illegible].2	.[illegible]7	5.7	7.2	13.8	9.6	.0	8.5	84.6	
	TOT OBS												7955
	TOT PCT	10.3	11.1	15.6	9.8	7.0	9.5	16.3	1 .2	.0	9.3	100.0	

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1886-1979

AREA 0808 GULF OF TEHUANTEPEC
14.0N 94.9W

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	.7	.3	2.1	8.0	12.6	4.5	1.6	.2	.3	.1	30.4	69.6	1789
06E09	1.3	.4	2.0	10.5	12.4	3.8	1.3	.4	.4	.4	33.5	66.5	1417
12E15	1.6	.5	3.6	12.9	15.6	5.7	2.2	.5	.3	.1	43.1	56.9	1512
18E21	1.4	.6	2.5	11.2	15.0	5.2	2.4	.6	.3	.1	39.4	60.6	1871
TOT	82	31	165	697	924	318	126	33	19	11	2406	4183	6589
PCT	1.2	.5	2.5	10.6	14.0	4.8	1.9	.5	.3	.2	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
00E03	.4	.2	.7	1.4	8.6	88.5	2043
06E09	.3	.4	.6	2.4	13.3	83.0	1927
12E15	.3	.4	.3	3.6	15.8	79.7	1866
18E21	.4	.4	.4	2.1	9.6	86.6	2312
TOT	29	29	52	191	950	6497	8148
PCT	.4	.4	.6	2.3	11.7	84.6	100.0

TABLE 12

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

HOUR (GMT)	<150 <500YD	<600 <1	<1000 <5	1000+ AND5+	NM <5/8 AND 5+	TOTAL OBS
00E03	.8	3.7	12.3	19.4	68.4	1726
06E09	1.4	4.0	15.7	19.3	65.0	1359
12E15	1.6	6.0	20.2	24.4	55.4	1460
18E21	1.5	4.8	17.0	23.7	59.3	1806
TOT	83	291	1028	1360	3943	6351
PCT	1.3	4.6	16.2	21.7	62.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.0	*	.0	.0	.0	2	*
90/94	.0	.0	.0	.2	.6	.5	.2	.0	91	1.4
85/89	.0	.0	.0	.2	2.9	11.1	2.7	.5	1093	17.3
80/84	.0	.0	.0	.1	2.5	25.4	32.0	5.4	4132	65.4
75/79	.0	.0	.0	.0	*	.9	6.7	7.8	974	15.4
70/74	.0	.0	.0	.0	.0	.0	*	.4	29	.5
TOTAL	0	0	0	26	384	2395	2624	892	6321	100.0
PCT	.0	.0	.0	.4	6.1	37.9	41.5	14.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	*	*	*	.0	.0	.0	.0	.0	.0
	.2	.2	.2	.1	.1	.1	.3	.2	.0	.1
	2.4	2.4	2.7	1.5	.9	1.0	2.5	2.3	.0	1.6
	6.3	7.2	10.3	6.5	4.8	5.6	10.9	6.9	.0	6.8
	1.1	1.4	2.2	1.5	1.4	2.6	2.9	1.6	.0	.6
	.0	*	*	..	.1	*	.1	.1	.0	*
	10.0	11.3	15.5	9.7	7.3	9.3	16.6	11.1	.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	94	90	87	83	78	75	69	82.7	2058
06E09	89	86	84	82	77	75	71	81.5	1970
12E15	92	86	84	81	76	75	68	80.8	1898
18E21	95	91	89	84	78	75	70	83.7	2372
TOT	95	90	87	82	77	75	68	82.3	8298

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.5	6.9	45.2	35.8	11.6	-0	1692
06E09	.0	.0	3.0	32.5	50.1	14.4	82	1491
12E15	.0	.2	2.2	24.9	51.6	21.1	84	1520
18E21	.0	.8	11.5	47.1	30.7	9.9	78	1782
TOT	0	26	400	2466	2684	909	81	6485

SEPTEMBER

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1886-1979

APLA DOCE GULF OF TEHUANTEPEC
14.0N 94.9W

TABLE 17

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

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	* FOG	+0 FOG
11/13	.0	.0	.0	.0	*	*	.0	*	5	.0	.1
9/10	.0	.0	.0	.0	.1	*	.1	.1	18	.0	.3
7/8	.0	.0	.0	.0	.1	.1	.1	.1	42	.0	.6
6	.0	.0	.0	*	.1	.2	.2	*	31	.0	.4
5	.0	.0	.0	.1	.2	.8	.4	*	101	.0	1.4
4	.0	.0	.0	*	.6	1.0	.4	.0	146	*	2.0
3	.0	.0	.0	.1	.4	1.4	.4	*	165	.0	2.3
2	.0	.0	*	.2	2.1	2.6	.2	.0	372	.0	5.3
1	.0	.0	*	.3	2.8	2.5	.1	.0	401	*	5.6
0	.0	.0	*	.7	6.4	3.3	.1	.0	881	*	12.4
-1	.0	.0	.1	.8	8.5	2.0	*	.0	805	.1	11.3
-2	.0	.0	*	2.2	12.0	1.2	.0	.0	1149	*	15.5
-3	.0	*	.1	2.6	6.2	.4	.0	.0	600	.0	11.3
-4	.0	.0	.2	3.6	6.8	.2	.0	.0	760	.0	10.7
-5	.0	.0	.2	3.9	4.0	.1	.0	.0	561	*	8.2
-6	.0	.0	.3	3.0	1.4	*	.0	.0	337	.0	4.6
-7/-8	.0	*	1.0	3.5	.8	*	.0	.0	349	*	5.4
-9/-10	.0	*	.7	.7	.1	*	.0	.0	111	.0	1.6
-11/-13	.0	*	.3	.2	*	.0	.0	.0	33	.0	.5
-14/-16	.0	*	.0	*	.0	.0	.0	.0	4	.0	.1
-17/-19	*	.0	*	.0	.0	.0	.0	.0	2	.0	*
TOTAL	1		201		4008		147			13	7063
		7		1556		1143		15	7076		
PCT	*	.1	2.8	22.0	56.6	16.2	2.1	.2	100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

PCT FREQ OF 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	.7	.1	.0	.0	.0	1.3
1-2	.3	3.1	.2	.0	.0	.0	3.5
3-4	.1	.9	.9	.2	.0	.0	2.0
5-6	.0	.3	.6	.1	.0	.0	.9
7	.0	.1	.3	.3	.0	.0	.7
8-9	.0	.1	.1	*	.0	.0	.2
10-11	.0	.0	.0	.1	.1	.0	.2
12	.0	.0	.1	.1	.0	.0	.1
13-16	.0	.0	.0	.1	.1	.0	.1
17-19	.0	.0	.0	.1	*	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	5.1	2.0	.9	.2	.0	9.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.6	.0	.0	.0	.0	1.0
1-2	.3	2.4	.8	.0	.0	.0	3.5
3-4	.1	1.2	1.3	*	.0	.0	2.6
5-6	.0	.2	1.3	.2	.1	.0	1.7
7	.0	.1	.2	.3	.0	.0	.5
8-9	.0	.1	.2	.1	.0	.0	.3
10-11	.0	.0	*	.1	.0	.0	.1
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	*	.0	.0	*
20-22	.0	.0	.0	.1	.0	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	4.4	3.9	.8	.1	.0	9.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.4	.1	.0	.0	.0	2.2
1-2	.5	3.5	1.5	.0	.0	.0	5.5
3-4	*	1.6	1.7	*	.0	.0	3.4
5-6	.0	.6	1.2	.3	.0	.0	2.1
7	.0	.2	.3	.2	.1	.0	.7
8-9	.0	.0	.2	*	.0	.0	.2
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.1	.0	.1	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	7.3	5.2	.6	.1	.0	14.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.9	.6	.0	.0	.0	1.9
1-2	.3	2.3	.9	.0	.0	.0	3.6
3-4	.1	1.2	.6	.0	.0	.0	1.9
5-6	.0	.4	1.1	*	.0	.0	1.5
7	.0	.1	.2	.0	.0	.0	.3
8-9	.0	.0	.1	.1	.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	.8	5.1	3.0	.1	.0	.0	9.1

PERIOD: (OVER-ALL) 1963-1979 SEPTEMBER AREA CODE GULF OF TEHUANTEPEC 14.0N 94.0W

TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.1	.1	.0	.0	.0	1.7
1-2	.3	2.0	.3	.0	.0	.0	2.7
3-4	*	1.4	.6	*	.0	.0	2.0
5-6	.0	.4	.7	.1	.0	.0	1.2
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	*	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	4.8	1.9	.1	*	.0	7.8

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.9	.1	.0	.0	.0	1.5
1-2	.1	3.3	.4	.0	.0	.0	4.3
3-4	.0	1.4	1.2	.1	.0	.0	2.7
5-6	.1	.1	.8	.3	.0	.0	1.3
7	.0	.1	.6	.2	.0	*	.9
8-9	.0	.1	.2	.0	.1	.0	.3
10-11	.0	.0	.1	*	*	.0	.1
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	0	.0
TOT PCT	.7	5.9	3.8	.7	.1	*	11.3

W

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	.6	4.2	.4	.0	.0	.0	6.1
3-4	.2	2.5	2.1	.1	.0	.0	4.9
5-6	.0	.4	1.9	.2	.0	.0	2.5
7	.0	.2	1.3	.1	*	.0	1.6
8-9	.0	.0	.2	.0	.1	.0	.3
10-11	.0	.0	.1	.2	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
24-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61 70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	8.8	6.5	.9	.1	*	18.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.2	.7	.6	.0	.0	1.8
1-2	.4	3.2	.7	.0	.0	.0	4.3
3-4	.1	1.0	1.2	.1	.0	.0	2.5
5-6	.0	.3	.9	*	.0	.0	1.1
7	.0	.1	.2	.1	.0	.0	.4
8-9	.0	.0	*	.1	.0	.0	.1
10-11	.0	.0	.0	.1	*	.0	.1
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
24-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61 70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	5.8	2.9	.4	*	.0	10.4

HGT	TOTAL PCT
<1	1.8
1-2	4.3
3-4	2.5
5-6	1.1
7	.4
8-9	.1
10-11	.1
12	.1
13-16	.0
17-19	.0
20-22	.0
23-25	.0
24-32	.0
33-40	.0
41-48	.0
49-60	.0
61 70	.0
71-86	.0
87+	.0
TOT PCT	90.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	14.8	8.2	.5	.0	.0	.0	23.5	
1-2	3.6	24.1	6.0	.0	.0	.0	33.8	
3-4	.6	11.2	9.2	.6	.0	.0	21.8	
5-6	.1	2.5	8.2	1.2	.1	.0	12.0	
7	.0	.7	3.3	1.2	.1	.1	5.3	
8-9	.0	.1	1.0	.4	.1	.0	1.6	
10-11	.0	.0	.2	.5	.2	.0	.9	
12	.0	.0	.2	.1	.1	.0	.4	
13-16	.0	.0	.0	.2	.1	.0	.3	
17-19	.0	.0	.0	.1	.1	.0	.2	
20-22	.0	.0	.0	.1	.0	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1713
TOT PCT	19.5	46.8	28.5	4.0	.7	.1	100.0	

PERIOD: (OVER-ALL) 1949-1979 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.1	12.9	14.0	6.9	3.2	.9	.5	.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2442	3
6-7	.2	2.0	4.1	6.4	4.3	1.9	.8	.4	.3	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	1509	5
8-9	.1	.7	2.9	5.5	2.2	1.4	.8	.2	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	683	6
10-11	.0	.6	.9	.9	.7	.7	.2	.2	.2	*	*	.0	.0	.0	.0	.0	.0	.0	.0	254	6
12-13	.0	.0	.7	.5	.4	.2	.2	*	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	113	6
>13	.0	.0	.0	.3	.3	.1	.1	*	*	.1	.0	*	*	.0	.0	.0	.0	.0	.0	53	8
INDET	5.2	1.1	2.2	1.5	.6	.2	.1	*	*	.1	*	*	.0	.0	.0	.0	.0	.0	.0	627	2
TOTAL	544	975	1629	1251	664	307	163	61	62	16	5	4	0	0	0	0	0	0	0	5681	4
PCT	9.6	17.2	28.7	22.0	11.7	5.4	2.9	1.1	1.1	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1872-1979

AREA 06Y6 GULF OF TEHUANTEPEC
14.0N 94.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	DUST SAND	NO SIG WEA
N	1.4	1.5	.6	.0	.0	.0	.0	3.5	.4	2.3	.1	.0	1.1	.2		92.2
NE	1.6	.8	.6	.0	.0	.0	.0	3.0	2.0	3.7	.2	.0	.6	.4		90.2
E	3.3	2.2	1.4	.0	.0	.0	.0	6.5	3.7	3.8	.1	.0	.6	.0		85.4
SE	3.5	2.3	.5	.0	.0	.0	.0	6.3	4.1	4.8	.2	.0	.7	.0		83.6
S	7.2	6.0	2.9	.0	.0	.0	.0	15.2	5.8	3.2	.0	.0	.6	.0		75.3
SW	4.8	2.7	1.9	.0	.0	.0	.0	9.6	7.3	3.4	.2	.0	.4	.0		79.2
W	2.7	1.9	1.6	.0	.0	.0	.0	6.2	5.3	3.7	.4	.0	.7	.0		84.2
NW	1.5	1.0	.7	.0	.0	.0	.0	3.5	2.6	3.4	.1	.0	.5	.1		89.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.7	.5	.5	.0	.0	.0	.0	1.3	.7	4.5	.0	.0	1.2	.0		91.7
TOT PCT	2.4	1.7	1.0	.0	.0	.0	.0	5.1	3.0	3.5	.2	*	.7	.1		87.6
TOT OBS:	7620															

TABLE 2

PERCENT FREQ [illegible]

	PRECIPITATION TYPE									OTHER WEATHER 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 SNOW	DUST SAND	NO SIG WEA
00E03	1.5	1.2	.6	.0	.0	.0	.1	3.4	2.2	.8	.2	.1	1.0	.2		92.1
06E09	2.1	1.5	.8	.0	.0	.0	.0	4.5	2.9	1.1	.3	.1	.5	.2		91.6
12E15	3.7	2.9	1.7	.0	.0	.0	.0	8.4	4.2	4.0	.5	*	.6	.1		91.7
18E21	2.2	1.5	.7	.0	.0	.0	.0	4.2	2.7	.5	.2	.0	.5	.1		93.3
TOT PCT	2.4	1.5	1.0	.0	.0	.0	*	5.1	3.0	3.6	.2	*	.7	.1		87.3
TOT OBS:	7A39															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								MEAN	HOUR (GMT)				
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	SPD	00	03	06	09	12	15	18	21
N	1.3	6.7	7.6	5.0	1.1	*		21.7	16.1	21.2	19.4	17.4	16.5	24.1	24.3	25.6	21.3
NE	1.1	5.6	5.5	3.2	.6	*		16.0	14.9	16.3	11.4	13.7	19.8	16.3	15.3	17.6	18.4
E	1.1	5.7	3.2	.7	.1	*		10.7	13.6	9.3	13.6	11.2	9.2	9.6	12.7	12.2	10.7
SE	.9	3.8	1.2	.2	*	.0		6.2	8.7	6.4	8.5	7.3	6.3	4.6	5.9	5.8	7.0
S	.7	2.7	1.0	.2	*	.0		4.7	9.2	5.1	6.9	4.9	4.4	3.9	3.4	4.6	4.9
SW	.8	3.7	1.4	.5	*	*		6.6	10.2	6.5	8.1	7.4	7.3	6.2	6.3	5.4	7.1
W	1.5	7.7	3.2	.4	.0	.0		12.8	9.0	13.9	13.8	14.3	12.4	12.0	12.1	11.0	14.0
NW	1.4	7.0	3.8	.9	.2	*		13.3	10.6	12.2	14.4	12.4	15.2	14.9	10.7	13.1	14.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.8							7.8	.0	6.8	8.7	11.4	6.5	6.3	3.5	5.7	6.9
TOT OBS	1341	3486	2231	886	166	9	8119		11.2	1641	127	1756	194	1692	226	2100	169
TOT PCT	16.5	42.9	27.5	10.9	2.0	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)							MEAN	HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	SPD	00	06	12	18
									03	09	15	21
N	4.3	7.6	6.8	2.9	.2		21.7	16.1	20.8	17.4	24.1	24.3
NE	3.7	6.0	4.6	1.5	.2		16.0	14.9	16.0	14.3	16.1	17.5
E	3.7	5.2	1.5	.2	*		10.7	10.6	9.6	11.0	9.6	12.1
SE	2.6	3.1	.4	.1	.0		6.2	8.7	6.9	7.2	5.6	5.9
S	2.0	2.1	.6	.1	.0		4.7	9.2	5.2	4.9	3.6	4.6
SW	2.6	3.1	1.0	.1	*		6.6	10.2	4.4	7.4	6.2	5.5
W	5.1	6.5	1.1	.1	.0		12.8	9.0	13.8	14.1	12.0	11.3
NW	4.5	6.7	1.6	.4	*		13.3	10.6	12.3	12.6	15.0	13.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	7.8						7.8	.0	7.0	11.1	7.8	5.6
TOT OBS	2950	3273	1414	467	35	8139		11.2	1666	1944	1918	2289
TOT PCT	36.3	40.3	17.4	5.5	.4		100.0		100.0	100.0	100.0	100.0

OCTOBER

PERIOD: (PRIMARY) 1955-1979
(OVER-ALL) 1872-1979

TABLE 4

AREA CODE GULF OF TEHUANTEPEC
14.0N 94.9W

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
00E05	7.0	8.4	44.6	28.6	9.1	2.2	.1	11.0	100.0	1964
06E09	11.1	9.6	45.7	24.4	9.2	2.0	.1	10.3	100.0	1944
12E15	7.6	8.4	42.7	27.6	11.6	1.7	.3	11.4	100.0	1918
18E21	5.6	8.4	41.1	29.0	13.4	2.3	*	12.1	100.0	2249
TOT	635	706	3486	2231	666	166	9	11.2		8119
PCT	7.8	8.7	42.9	27.5	10.9	2.0	.1		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.2	5.7	6.3	2.7		3.7
NE	5.9	3.7	4.6	1.9		2.8
E	2.2	2.6	3.2	1.9		4.5
SE	1.3	1.4	2.2	1.3		4.9
S	.6	1.1	1.6	1.5		5.5
SW	.8	1.3	2.6	2.3		5.8
W	3.0	2.8	4.1	3.0		4.8
NW	3.8	3.4	4.1	3.6		4.2
VAR	.0	.0	.0	.0		.0
CALM	3.3	1.9	2.0	.6		3.4
TOT OBS	1657	1467	1915	1253	6292	4.3
TOT PCT	26.5	23.3	30.4	19.7	100.0	

TABLE 6

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

WND DIR	0-149	150-299	300-599	600-999	1000-1999	2000-3499	3500-4999	5000-6499	6500-7999	8000+	WH <5/8 ANY HGT	TOTAL OBS
N	.1	.1	.2	1.0	1.6	.7	.3	.1	.1	.1	18.0	
NE	*	*	.2	.8	.9	.6	.2	.1	*	.1	13.1	
E	*	.1	.1	.5	1.1	.5	.2	.1	*	*	7.7	
SE	.1	*	.1	.4	.9	.3	.1	*	.0	*	4.4	
S	*	*	.2	.6	.9	.2	.1	.1	.0	*	2.8	
SW	*	*	.2	.8	1.3	.4	.3	*	*	*	3.8	
W	.2	.1	.2	1.2	1.4	.6	.2	*	*	.0	8.6	
NW	.1	.1	.1	.8	1.2	.5	.2	*	.0	.1	10.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	*	.3	.5	.2	.1	*	*	*	6.5	
TOT OBS	40	24	82	413	575	243	103	34	15	23	4730	6292
TOT PCT	.6	.4	1.4	6.6	9.2	3.9	1.6	.6	.2	.4	75.2	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >5070	= OR >0
= OR >6500	.5	.6	.6	.6	.6	.6	.6	.6
= OR >5000	.9	1.1	1.1	1.1	1.1	1.1	1.1	1.1
= OR >3500	2.1	2.7	2.8	2.8	2.8	2.8	2.8	2.8
= OR >2000	5.0	6.3	6.5	6.6	6.6	6.6	6.6	6.6
= OR >1000	12.3	15.2	15.7	15.7	15.7	15.8	15.8	15.8
= OR >600	16.9	21.4	22.1	22.3	22.3	22.4	22.4	22.4
= OR >300	17.6	22.6	23.4	23.6	23.7	23.7	23.7	23.7
= OR >150	17.7	22.9	23.7	24.0	24.0	24.1	24.1	24.1
= OR > 0	17.9	23.3	24.3	24.6	24.6	24.7	24.7	24.7
TOTAL	1158	1502	1566	1585	1589	1593	1595	1596

TOTAL NUMBER OF OBS: 6452 PCT FREQ WH <5/8: 75.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
14.1	19.0	18.7	14.2	9.1	5.8	6.1	4.7	8.0	.4	6820

OCTOBER

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1872-1979

AREA CODE GULF OF TEHUANTEPEC
14.0N 94.9W

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	*	.0	*	*	*	.0	*	*	.0	.0	.1	
<1/2	NO PCP	*	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	*	*	*	*	*	.0	*	*	.0	.0	.1	
	PCP	*	*	.0	.0	*	*	.0	.0	.0	.0	.1	
1/2<1	NO PCP	.0	.0	.0	*	*	*	.0	.0	.0	.0	.1	
	TOT %	*	*	.0	*	*	*	.0	.0	.0	.0	.1	
	PCP	*	*	*	*	*	*	*	*	.0	.0	.2	
1<2	NO PCP	.0	*	*	.0	*	*	*	*	.0	.0	.1	
	TOT %	*	*	*	*	*	.1	.1	.1	.0	.0	.3	
	PCP	.1	.1	.1	*	.1	*	.1	.1	.0	*	.6	
2<5	NO PCP	.1	.1	*	*	*	.1	.1	.1	.0	*	.6	
	TOT %	.2	.2	.1	.1	.1	.1	.2	.2	.0	.1	1.2	
	PCP	.4	.2	.2	.1	.2	.3	.3	.2	.0	.1	2.1	
5<10	NO PCP	1.8	1.2	.8	.5	.5	.7	1.2	1.0	.0	.3	8.1	
	TOT %	2.2	1.5	1.1	.6	.7	1.0	1.5	1.2	.0	.4	10.2	
	PCP	.3	.1	.3	.2	.2	.3	.4	.1	.0	.1	1.9	
10+	NO PCP	19.2	14.2	9.1	5.3	3.4	5.5	10.7	11.7	.0	7.2	86.1	
	TOT %	19.5	14.3	9.3	5.5	3.7	5.7	10.9	11.8	.0	7.2	88.0	
	TOT OBS												7596
	TOT PCT	21.9	16.0	10.7	6.2	4.7	7.0	12.6	13.2	.0	7.7	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	*	
<1/2	4-10	.0	*	*	*	.0	.0	*	*	.0		.1	
	11-21	*	*	.0	.0	*	.0	*	.0	.0		.1	
	22+	*	*	*	*	*	.0	.0	.0	.0		.1	
	TOT %	*	.1	*	*	*	.0	*	*	.0	.0	.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	*	.0	*	*	*	.0	.0	.0		.1	
	11-21	*	.0	.0	.0	.0	.0	.0	.0	.0		*	
	22+	*	.0	*	.0	*	*	.0	.0	.0		.1	
	TOT %	*	*	*	*	*	*	.0	.0	.0	.0	.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	*	*	*	*	*	*	*	.0		.1	
	11-21	*	*	*	.0	.0	*	*	.1	.0		.1	
	22+	*	*	*	*	*	*	*	.0	.0		.1	
	TOT %	*	*	.1	.1	*	.1	.1	.1	.0	.0	.4	
	0-3	.0	.0	.0	.0	.0	.0	.0	*	.0	.1	.1	
2<5	4-10	.1	.1	.1	*	.1	*	.1	.1	.0		.4	
	11-21	.1	*	.1	*	*	*	.1	.1	.0		.4	
	22+	.1	.2	*	*	.1	*	*	*	.0		.4	
	TOT %	.2	.3	.2	.1	.2	.1	.2	.2	.0	.1	1.5	
	0-3	*	.1	.1	*	.1	*	.2	.1	.0	.4	1.1	
5<10	4-10	.5	.5	.5	.3	.3	.3	.6	.4	.0		3.4	
	11-21	.8	.5	.3	.2	.3	.5	.5	.5	.0		3.6	
	22+	.9	.4	.2	.1	.1	.1	.2	.1	.0		2.0	
	TOT %	2.1	1.4	1.1	.6	.7	1.0	1.5	1.2	.0	.4	10.1	
	0-3	1.3	1.0	1.0	.9	.6	.7	1.2	1.2	.0	7.3	15.2	
10+	4-10	6.2	5.0	5.1	3.4	2.3	3.3	6.9	6.4	.0		38.7	
	11-21	6.8	5.0	2.7	1.0	.7	1.3	2.5	3.2	.0		23.4	
	22+	5.2	3.2	.5	.1	.1	.3	.2	.9	.0		10.4	
	TOT %	19.5	14.2	9.3	5.5	3.7	5.6	10.8	11.8	.0	7.3	87.7	
	TOT OBS												7917
	TOT PCT	21.9	16.0	10.7	6.2	4.7	6.4	12.7	13.2	.0	7.8	100.0	

OCTOBER

PERIOD: (FORMANY) 1953-1975
(OVER-ALL) 1972-1975

TABLE 10

AREA CODE GULF OF TEHUANTEPEC
14.0N 94.9W

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,AM 2W/R) AND OCCURRENCE OF AM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1499	1500 2999	3000 4999	5000 6999	7000	UNDD+	TOTAL	AM <5/8 AND 1ST	TOTAL OBS
0000*	.3	.4	1.1	5.0	7.7	3.4	1.5	.3	.2	.4	23.4	74.6	1753
0600*	1.1	.5	1.	6.7	8.6	3.2	1.4	.3	.3	.3	23.7	76.3	141
1261*	.7	.2	1.5	7.1	11.1	4.1	1.0	.6	.2	.4	27.0	72.4	1609
1*621	.3	.5	1.0	5..	9.1	3.7	1.7	.5	.2	.2	23.0	77.0	1669
TOT	41	24	89	4.9	553	244	108	36	15	23	1602	5119	6725
PCT	.6	.4	1.3	6..	8.2	3.6	1.6	.5	.2	.3	23.8	76.2	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
0000*	1	.2	.2	1.1	7.9	90.5	1*68
0600*	.3	..	..	1.0	11.7	90.6	1935
1261*	.3	.0	.5	1.9	12.6	84.5	1934
1*621	.3	.2	..	1.4	9.5	88.4	2263
TOT	16	11	37	123	826	7124	8140
PCT	.2	.1	.4	1.5	10.2	87.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,AM 2W/R),BY HOUR

HOUR (GMT)	<350 <500/0	<600 <1	<1000 <3	1000+ 3NDS+	AM <5/8 AND 1ST	TOTAL OBS
0000*	.4	2.0	8.7	14.1	77.1	1675
0600*	1.2	3.0	10.0	14.7	74.7	1421
1*215	.6	2..	10.7	17.9	71.4	1551
1*621	.3	2..	9.7	14.4	75.4	1605
TOT	41	164	654	983	4831	6452
PCT	.6	2.5	9.9	15.2	74.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	.0	.0	*	.0	.0	.0	2	*
60/64	.0	.0	*	.1	.6	.4	.1	*	41	1.2
65/69	.0	.0	*	.4	3.2	7.4	2.3	.4	416	14.1
70/74	.0	.0	*	.4	4.8	24.2	31.0	5.4	4269	65.6
75/79	.0	.0	.0	*	.5	3.9	7.1	6.2	1147	17.7
80/84	.0	.0	.1	.0	.0	.2	.4	.4	69	1.1
85/89	.0	.0	.1	.0	.0	.0	.0	*	1	*
TOTAL	0	0	3	59	590	2365	4059	849	6485	100.0
PCT	.0	.0	*	.9	9.1	36.5	41.0	12.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	*	.0	.0	.0	.0	.0	.0	*	.0	*
	.2	.2	.3	.1	*	*	.2	.3	.0	*
	2.6	2.3	1.7	.5	.7	.6	2.1	2.1	.0	1.2
	13.7	10.6	7.0	4.4	2.9	4.2	8.6	6.6	.0	5.6
	4.9	2.8	1.5	.8	1.2	1.9	2.0	1.9	.0	.6
	.5	.2	*	.1	*	.1	.1	.1	.0	.0
	.0	.0	.0	.0	.0	.0	.0	*	.0	.0
	22.0	16.1	10.5	6.2	4.8	6.9	12.8	13.1	.0	7.7

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
0000*	95	88	86	82	77	75	71	80.2	2016
0600*	89	86	84	81	77	73	70	80.9	1986
1261*	93	86	84	81	76	74	69	80.4	1953
1*621	95	91	89	83	78	75	70	83.3	2325
TOT	95	90	87	82	77	74	69	81.8	8280

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000*	.0	.6	9.7	42.2	37.9	9.4	79	1703
0600*	.0	.5	4.3	31.1	48.7	15.3	82	1570
1261*	.0	.4	4.3	25.2	51.6	18.5	83	1612
1*621	.5	2.2	17.0	42.2	28.1	7.5	77	1802
TOT	0	67	615	2424	2744	833	80	6687

PERIOD: (PRIMARY) 1953-1975
(OVER-ALL) 1872-1975

AREA 00-N GULF OF TEHUANTEPEC
14.0N 94.5W

TABLE 17

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

SEA-AIR DIF	69 or 72	73 to 76	77 to 80	81 to 84	85 to 88	89 to 92	>92	TOT	* FOG	WG FOG
17/19	.0	.0	.0	.0	.0	.0	*	1	.0	*
14/16	.0	.0	.0	*	.0	*	.0	3	.0	*
11/13	.0	.0	*	.1	*	*	*	13	.0	.2
8/10	.0	.0	.1	.2	.1	.1	.1	42	.0	.6
7/8	.0	*	.1	.2	.3	.2	*	62	.0	.5
6	*	*	.1	.2	.4	.3	.0	68	.0	1.0
5	.0	*	.2	.6	.7	.4	*	154	.0	1.1
4	.0	.1	.2	1.6	1.2	.3	.0	222	*	3.1
3	*	.1	.4	1.2	1.6	.2	.0	238	.0	3.4
2	.0	.1	.5	3.4	1.9	.1	.0	421	*	5.9
1	.0	.1	1.1	4.1	2.1	*	.0	526	*	7.4
0	*	.2	2.1	7.0	2.1	*	.0	961	*	12.5
-1	.1	.1	1.8	6.4	1.5	.0	.0	845	*	12.0
-2	*	.2	3.3	10.9	.7	.0	.0	1066	*	15.1
-3	*	.2	3.4	6.0	.2	.0	.0	698	.0	9.9
-4	*	.2	3.9	5.0	.2	.0	.0	664	.0	9.4
-5	.0	.3	3.3	2.5	.1	*	.0	462	.0	6.5
-6	*	.4	2.6	1.1	*	.0	.0	293	.0	4.1
-7/-8	.1	.7	2.1	.8	*	.0	.0	256	.0	3.6
-9/-10	*	.4	.5	.1	.0	.0	.0	74	.0	1.0
-11/-13	.1	.2	.2	*	.0	.0	.0	31	.0	.4
-14/-16	*	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	24	1833		925		70			35	7066
		243	3924		122			TOT		
PCT	.3	3.4	25.9	54.4	13.1	1.7	.1	100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.1	.2	.0	.0	.0	1.7
1-2	.2	3.6	1.5	.0	.0	.0	5.3
3-4	.2	1.6	2.6	.3	.0	.0	4.2
5-6	.0	.6	2.4	1.3	.1	.0	4.6
7	.0	.1	1.4	1.8	.2	.0	3.6
8-9	.0	.0	.6	.6	.1	*	1.8
10-11	.0	.0	.3	.6	.3	.0	1.2
12	.0	.0	.1	.3	.3	.0	.7
13-16	.0	.0	.1	.7	.6	.0	1.5
17-19	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.2	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	6.8	9.1	5.9	1.9	*	24.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.9	.2	.0	.0	.0	1.6
1-2	.3	3.0	.8	.0	.0	.0	4.2
3-4	*	1.5	2.4	.5	.0	.0	4.4
5-6	.0	.2	2.1	1.0	*	.0	3.3
7	.0	.1	.7	1.0	.1	.0	1.9
8-9	.0	.0	.4	.3	.0	.0	1.5
10-11	.0	.0	.2	.1	.0	.0	.7
12	.0	.0	.1	.2	.0	.0	.4
13-16	.0	.0	.1	.3	.0	.0	.5
17-19	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	5.7	7.0	.9	.1	.0	14.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.9	.0	.0	.0	.0	1.5
1-2	.2	3.2	.4	.0	.0	.0	3.8
3-4	.1	1.3	1.3	.2	.0	.0	2.6
5-6	.0	.2	1.2	.2	.0	.0	1.5
7	.0	.1	.4	.2	*	.0	.7
8-9	.0	.0	.2	.1	.0	.0	.3
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.1	*	.0	.1
13-16	.0	.0	.1	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	5.7	3.8	.9	.1	.0	10.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.9	.2	.0	.0	.0	1.6
1-2	.3	2.3	.5	.0	.0	.0	3.0
3-4	*	1.6	.4	.0	.0	.0	1.7
5-6	.0	.2	.3	.1	.0	.0	.5
7	.0	.1	*	*	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	5.0	1.7	.1	.0	.0	8.0

PERIOD: (OVER-ALL) 1963-1979 — TABLE 16 (CONT) — AREA CODE GULF OF TEHUANTEPEC 14.0N 96.9W

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.7	.1	.0	.0	.0	1.2
1-2	.1	1.4	.2	.0	.0	.0	1.6
3-4	.0	.8	.3	.0	.0	.0	1.0
5-6	.0	.2	.1	.0	.0	.0	.3
7	.0	.1	.1	.0	.0	.0	.2
8-9	.0	.1	•	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	3.2	.6	.0	.0	.0	4.5

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	.5	.0	.0	.0	.9
1-2	.0	.5	1.4	.2	.0	.0	2.2
3-4	.0	.6	1.4	.1	.0	.0	1.7
5-6	.0	.1	.3	.1	.0	.0	.5
7	.0	.0	.1	.1	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	3.6	1.9	.4	.0	.0	6.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.1	.3	.0	.0	.0	1.9
1-2	.6	3.5	1.9	.0	.0	.0	6.0
3-4	.2	1.6	1.1	.0	.0	.0	2.9
5-6	.0	.6	.2	.1	.0	.0	1.0
7	.0	.2	.3	.3	.0	.0	.7
8-9	.0	•	.1	.0	.0	.0	.1
10-11	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	6.8	3.1	.4	.0	.0	11.7

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.1	.3	.0	.0	.0	1.7
1-2	.4	3.0	.7	.0	.0	.0	4.1
3-4	.1	1.7	1.2	.1	.0	.0	3.1
5-6	.1	.5	.4	.5	•	.0	1.6
7	.0	•	.1	.4	.0	.0	.5
8-9	.0	.1	.1	•	.0	•	.2
10-11	.0	.0	.1	•	.0	.0	.2
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.1	•	.0	.0	.2
17-19	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	6.4	3.0	1.2	.1	•	12.1	93.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	10.7	7.2	.6	.0	.0	.0	18.6	
1-2	3.2	21.2	5.1	.5	.0	.0	29.4	
3-4	.5	9.7	9.5	1.3	.0	.0	21.1	
5-6	.1	2.2	7.5	3.2	.2	.0	13.1	
7	.0	.7	3.3	3.4	.4	.0	8.1	
8-9	.0	.2	1.9	1.9	.4	.0	4.3	
10-11	.0	.0	.4	1.3	.4	.0	2.4	
12	.0	.0	.1	.6	.4	.0	1.1	
13-16	.0	.0	.1	.4	.4	.0	2.0	
17-19	.0	.0	.0	.0	.2	.0	.2	
20-22	.0	.0	.0	.0	.2	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	14.6	41.4	28.1	12.5	3.3	.1	100.0	1909

PERIOD: (OVER-ALL) 1960-1979 — TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.2	10.2	12.3	7.1	2.9	1.7	.9	.5	.4	.2	•	.0	.0	.0	.0	.0	.0	.0	.0	2350	4
6-7	.2	1.7	6.6	8.4	5.2	2.8	1.9	.6	.7	.2	.1	•	.0	.0	.0	.0	.0	.0	.0	1642	6
8-9	•	.5	1.8	3.4	2.9	1.8	1.2	.7	.7	.2	.1	•	.0	.0	.0	.0	.0	.0	.0	781	7
10-11	.0	.3	.7	1.0	.7	.7	.5	.3	.3	.1	•	•	.0	.0	.0	.0	.0	.0	.0	262	7
12-13	.0	.0	.3	.3	.4	.2	.2	•	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	111	7
>13	.0	.0	.0	.3	.2	.3	.2	.1	•	•	•	•	.0	.0	.0	.0	.0	.0	.0	77	9
INDET	4.5	1.3	1.8	1.2	.7	.4	.2	.1	•	•	•	•	.0	.0	.0	.0	.0	.0	.0	405	3
TOTAL	514	610	1382	1265	765	459	262	133	145	33	20	7	1	0	0	0	0	0	0	5828	5
PCT	8.9	13.9	23.7	21.7	13.1	7.9	5.0	2.3	2.5	.6	.3	.1	•	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1880-1979

AREA NO. GULF OF TEHUANTEPEC
14.2N 94.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG W PCPN PAST H	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.1	.1	.1	.0	.0	.0	.0	.3	.1	1.2	.3	.6	1.4	.5		95.6
NE	.2	.1	*	.0	.0	.0	.0	.3	.2	1.6	.5	.1	1.1	.6		95.7
E	.9	.7	.0	.0	.0	.0	.0	1.6	1.8	1.7	.3	.2	1.1	.9		92.9
SE	1.5	.4	.4	.0	.0	.0	.0	2.4	2.0	3.6	.5	.2	.4	.2		91.3
S	2.2	4.7	.4	.1	.0	.0	.0	7.4	2.2	3.4	.0	.0	1.3	.0		85.7
SW	1.6	4.2	1.3	.0	.0	.0	.0	7.1	5.0	3.7	.1	.2	1.8	.0		84.3
W	1.9	.2	.2	.0	.0	.0	.0	2.3	1.2	1.4	.4	.4	1.0	.2		93.8
NW	.1	.1	.0	.0	.0	.0	.0	.4	.2	1.1	.1	.1	1.1	.2		96.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.1	.6	.0	.0	.0	.0	.0	.7	.6	2.2	.7	.0	2.5	.7		93.2
TOT PCT	.5	.5	.1	.0	.0	.0	.0	1.1	.7	1.6	.3	*	1.5	.3		94.4
TOT OBS:	7127															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG W PCPN PAST H	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
0001-03	.5	.4	.1	.0	.0	.0	.0	1.0	.7	.5	.2	.1	1.5	.5		95.5
0601-09	.4	.4	.1	.0	.0	.0	.0	.8	.5	1.1	.4	.1	1.9	1		92.3
1201-15	.7	.9	.1	.0	.0	.0	.0	1.7	.9	2.2	.3	.0	1.3	1		93.5
1801-21	.4	.4	.2	.0	.0	.0	.0	1.0	.6	.0	.3	.1	1.4	.6		96.1
TOT PCT	.5	.5	.1	.0	.0	.0	.0	1.1	.7	1.0	.3	.1	1.5	.3		94.5
TOT OBS:	7308															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)					
WND DIR	0-3	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	9.1	9.9	6.9	1.9	.2		30.2	16.4	27.5	23.9	24.6	28.9	31.9	33.5	35.3	35.1
NE	1.3	5.9	6.1	3.9	1.2	*		18.5	16.1	18.8	27.0	17.5	20.0	17.5	19.5	16.3	19.9
E	1.3	4.2	2.0	.5	.1	.0		7.8	10.3	7.4	6.8	9.2	6.9	7.5	6.6	8.1	5.6
SE	.6	2.0	.4	*	.0	.0		3.0	7.0	3.3	3.6	3.4	3.0	2.6	3.1	3.0	1.0
S	.6	1.5	.3	*	*	.0		2.4	7.3	3.4	2.9	2.7	3.5	1.3	2.2	2.1	2.6
SW	.7	2.0	.5	.2	*	.0		3.4	8.1	5.1	2.5	2.7	4.0	2.7	4.4	2.9	5.0
W	1.8	5.5	.4	.2	*	.0		8.5	7.2	10.1	9.7	9.5	7.4	8.0	5.4	6.7	7.5
NW	2.1	9.2	3.7	1.5	.4	*		15.9	11.0	15.3	17.8	15.2	14.7	15.5	16.9	16.8	17.2
VAR	.3	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.3							10.3	.0	9.1	10.4	15.3	11.6	11.6	7.0	6.8	9.7
TOT OBS	1594	2956	1440	1017	280	21	7308		11.7	1637	139	1613	149	1534	227	2113	196
TOT PCT	20.7	38.3	23.4	13.2	3.6	.3		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	6.7	9.7	9.1	4.4	.4		30.2	16.4	27.2	25.0	32.1	35.3
NE	4.2	6.1	5.2	2.7	.2		18.3	16.1	19.4	17.6	17.8	16.4
E	3.1	3.3	1.1	.3	*		7.8	10.3	7.4	9.0	7.4	7.7
SE	1.8	1.1	.1	*	.0		3.0	7.0	3.3	3.4	2.6	2.9
S	1.5	.8	.1	*	*		2.4	7.3	3.4	2.6	1.4	2.2
SW	1.8	1.3	.2	*	*		3.4	8.1	4.9	2.8	3.0	3.1
W	5.1	2.9	.3	.1	*		8.5	7.2	9.7	9.3	8.5	6.8
NW	6.3	6.4	2.3	.7	.2		15.9	12.0	15.5	15.1	16.0	16.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	10.3						10.3	.0	4.2	10.8	11.1	7.0
TOT OBS	3134	2447	1419	649	56	7729		11.7	1626	1812	1761	2304
TOT PCT	40.7	31.7	18.4	8.4	.8		100.0		100.0	100.0	100.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1948-1979

AREA CODE GULF OF TEHUANTEPEC
14.1N 96.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00E03	6.2	11.1	47.4	29.6	11.2	3.4	.2	11.3	100.0	1626
06E09	14.8	15.4	38.1	22.5	12.9	3.4	.3	10.9	100.0	1412
12E15	11.1	9.4	35.4	23.3	13.5	3.1	.2	11.6	100.0	1761
18E21	7.0	12.4	34.2	24.4	14.8	4.0	.3	12.6	100.0	2309
TOT	366	800	2056	1840	1017	280	21	11.7		27.4
PCT	10.7	12.4	34.2	23.0	13.2	3.6	.3		100.0	

TABLE 5

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

WND DIR	1-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	19.4	5.4	9.9	.6		2.3
NE	33.6	21.1	24.5	.5		3.2
E	4.3	20.1	17.5	.4		2.8
SE	1.3	.4	.9	.2		1.6
S	3.2	.4	.5	.3		1.6
SW	3.3	.7	.7	.3		2.8
W	6.6	20.1	14.5	.5		3.2
NW	6.7	5.6	7.1	.4		2.4
VAR	.0	.0	.0	.0		2.2
CALM	6.5	1.0	1.0	.2		2.5
TOT OBS	3401	1195	983	239	5876	
TOT PCT	58.9	23.3	16.7	4.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,GH 24/A) AND OCCURRENCE OF GH <5/8 BY WIND DIRECTION

WND DIR	100 1E3	150 2E3	300 5E2	600 9E2	1000 1E3	2000 3E3	3500 4E3	5000 6E3	6500 7E3	8000+	GH <5/8 ANY HGT	TOTAL OBS
N	.9	.4	.1	.4	.4	.4	.2	.1	.1	.1	27.7	
NE	.0	.0	.1	.2	.4	.3	.3	.1	.1	.1	16.9	
E	.0	.0	.0	.1	.2	.2	.1	.1	.0	.0	7.3	
SE	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	2.6	
S	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	2.0	
SW	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	2.6	
W	.0	.0	.1	.2	.3	.2	.1	.1	.0	.0	7.6	
NW	.0	.0	.0	.0	.3	.2	.1	.1	.1	.0	14.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.2	.1	.1	.0	.0	.0	6.5	
TOT OBS	1	1	5	23	134	166	69	31	13	17	5338	5876
TOT PCT	.1	.1	.4	2.2	9.2	11.7	4.6	2.2	.9	1.3	90.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (GH 24/A) AND VSBY (SM)

CEILING (FEET)	VSBY (SM) : OR >10	: OR >5	: OR >2	: OR >1	: OR >1/2	: OR >1/4	: OR >5016	: OR >0
: OR >6500	.5	.6	.6	.6	.6	.6	.6	.6
: OR >5000	.8	.9	.9	.9	.9	.9	.9	.9
: OR >3500	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5
: OR >2000	2.9	3.2	3.2	3.2	3.2	3.2	3.2	3.2
: OR >1000	5.6	6.3	6.4	6.4	6.4	6.4	6.4	6.4
: OR >600	7.1	8.4	8.6	8.6	8.7	8.7	8.7	8.7
: OR >300	7.4	8.7	9.0	9.0	9.0	9.0	9.0	9.0
: OR >150	7.4	8.8	9.0	9.1	9.1	9.1	9.1	9.1
: OR > 0	7.5	8.9	9.1	9.2	9.2	9.2	9.2	9.2
TOTAL	450	534	544	551	553	554	555	555

TOTAL NUMBER OF OBS: 6001

PCT FREQ GH <5/8: 90.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
35.0	25.7	16.1	8.8	5.0	2.9	2.7	1.8	1.9	.1	629

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1960-1979

AREA "OPS GULF OF TEHUANTEPEC
14.1N 94.9W

TABLE 8

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

VSBY (KM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	*	.0	.0	*	*	
	TOT %	.0	.0	.0	.0	.0	.0	*	.0	.0	*	*	
1/2<1	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<2	PCP	.0	.0	*	*	*	.0	.0	.0	.0	.0	*	
	NO PCP	*	*	.0	.0	.0	.0	.0	*	.0	.0	*	
	TOT %	*	*	*	*	*	.0	.0	*	.0	.0	.1	
2<5	PCP	.0	*	*	*	*	*	*		.0	*	.1	
	NO PCP	.1	*	*	*	*	*	.1	*	.0	.0	.3	
	TOT %	.1	*	*	*	.1	.1	.1	*	.0	*	.5	
5<10	PCP	*	*	*	*	.1	.1	.1	*	.0	*	.4	
	NO PCP	2.3	1.3	.6	.2	.2	.2	.4	.7	.0	.7	6.6	
	TOT %	2.4	1.3	.6	.2	.3	.3	.5	.8	.0	.7	7.0	
10+	PCP	.1	*	.1	*	.1	.1	.1	*	.0	*	.5	
	NO PCP	27.5	16.6	7.2	2.8	2.0	3.0	6.1	15.2	.0	9.6	91.8	
	TOT %	27.6	16.6	7.3	2.9	2.1	3.1	6.1	15.2	.0	9.6	92.4	
	TOT OBS												7173
	TOT PCT	30.1	18.0	8.0	3.1	2.4	3.5	6.7	16.0	.0	10.2	100.0	

TABLE 9

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

VSBY (KM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	*	.0	.0	*	*	
	4-10	*	*	.0	.0	.0	.0	*	*	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	*	.0	.0		*	
	TOT %	*	*	.0	.0	.0	*	*	*	.0	*	.1	
1/2<1	0-3	*	.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		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	.0	.0	.0	.0	.0	.0	.0	*	.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	*	.0	.0		
	4-10	.0	*	.0	.0	.0	.0	.0	*	.0		*	
	11-21	*	.0	*	.0	.0	.0	.0	*	.0		*	
	22+	*	.0	*	.0	.0	.0	.0	*	.0		*	
	TOT %	*	*	*	*	*	.0	.0	*	.0	.0	.1	
2<5	0-3	*	.0	.0	.0	*	*	.0	*	.0	*		
	4-10	.1	*	*	*	*	*	.0	*	.0		.2	
	11-21	.0	*	*	*	*	.1	*	*	.0		.2	
	22+	.1	*	*	.0	.0	.0	.0	*	.0		.1	
	TOT %	.2	.1	.1	*	.1	.1	.1	.1	.0	*	.7	
5<10	0-3	.1	.1	.1	*	.1	*	.1	.1	.0	.7	1.2	
	4-10	.6	.3	.2	.1	.1	.2	.3	.2	.0		1.9	
	11-21	.6	.3	.2	*	.1	*	.1	.2	.0		1.6	
	22+	1.3	.7	.1	.0	*	*	.1	.2	.0		2.4	
	TOT %	2.4	1.3	.6	.2	.2	.3	.6	.7	.0	.7	6.9	
10+	0-3	2.2	1.2	.4	.1	.1	.1	1.1	1.9	.0	9.6	19.5	
	4-10	8.6	5.5	3.9	1.9	1.3	1.6	5.3	7.9	.0		36.1	
	11-21	9.6	5.7	2.8	.8	.2	.1	.8	3.6	.0		23.1	
	22+	7.5	4.3	.6	*	*	.1	.1	1.7	.0		14.4	
	TOT %	27.7	16.7	7.2	2.8	2.1	3.0	6.0	14.9	.0	9.6	92.2	
	TOT OBS												7465
	TOT PCT	30.2	18.2	7.9	3.1	2.4	3.4	6.6	15.8	.0	10.3	100.0	

PERIOD: (PRIMARY) 1952-1975
(OVER-ALL) 1960-1979

AREA (LAT-LON) GULF OF TEHUANTEPEC
14.1N 96.9W

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	MM <5/8 ANY HGT	TOTAL OBS
00603	.1	.2	.5	1.6	3.0	1.7	.4	.4	.4	.6	9.2	57.8	1563
06609	.2	.0	.4	2.0	2.4	1.4	.6	.5	.3	.2	8.1	92.0	1406
12615	.2	.1	.3	3.2	3.8	1.4	.3	.3	.1	.3	10.6	87.4	1456
18621	.1	.1	.4	1.9	2.6	1.5	.6	.1	.3	.1	8.1	91.9	1836
TOT	6	5	23	136	189	102	36	20	16	14	554	570	6261
PCT	.1	.1	.4	2.2	3.0	1.6	.6	.3	.3	.2	9.6	91.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (SMI) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	.1	.0	.1	.7	6.0	93.2	1827
06609	.1	.1	.0	.5	7.8	91.6	1766
12615	.2	.1	.2	.9	7.2	91.4	1765
18621	.1	*	.1	.8	6.7	92.3	2266
TOT	10	4	6	53	520	7046	7649
PCT	.1	.1	.1	.7	6.9	92.1	100.0

TABLE 12

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

HOUR (GMT)	<150 <50MM	<600 <1	<1000 <5	1000+ /5SM+	MM <5/8 AND 5+	TOTAL OBS
00603	.1	.7	2.9	6.8	93.3	1529
06609	.2	.5	3.0	5.7	91.4	1362
12615	.2	.7	4.4	7.0	88.6	1395
18621	.1	.5	3.1	5.9	91.2	1735
TOT	8	77	199	377	5625	6021
PCT	.1	.6	3.3	6.3	93.4	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	*	*	.2	.6	.2	*	.0	63	1.1
85/89	.0	*	.1	.3	2.2	5.2	1.0	.2	543	9.1
80/84	.0	.0	.1	.6	5.9	22.3	23.4	4.5	3275	55.0
75/79	.0	.0	.0	.2	1.6	9.7	13.1	6.7	1685	28.4
70/74	.0	.0	.0	.1	.5	2.1	2.1	1.2	354	5.9
65/69	.0	.0	.0	.0	*	.2	.2	*	32	.5
TOTAL	1	3	12	91	645	2328	2137	757	5953	100.0
PCT	.0	.1	.2	1.5	10.8	38.9	35.9	12.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.3	.2	.1	.0	*	*	.1	.3	.0	.1
2.9	1.2	1.0	.4	.2	.4	1.0	2.0	.0	.9
14.8	6.8	5.2	2.1	1.6	1.9	5.2	9.7	.0	6.6
14.6	5.8	3.9	.8	.5	.9	2.1	3.3	.0	2.6
2.9	1.7	.3	*	*	.1	*	.7	.0	.2
.4	.1	*	*	.0	.0	.0	*	.0	.0
33.0	15.6	8.4	3.2	2.4	3.3	8.7	16.1	.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
00603	93	89	86	81	74	70	65	80.6	1855
06609	89	84	83	80	73	70	67	79.3	1855
12615	88	84	83	80	73	70	67	79.0	1787
18621	94	91	88	82	74	71	65	81.7	2334
TOT	94	89	86	81	73	70	65	80.3	7831

TABLE 16

PERCEN FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-54	55-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	1.4	11.4	41.4	34.4	10.2	76	1522
06609	.0	1.1	8.0	32.4	42.3	17.3	82	1406
12615	.0	.6	5.7	22.9	43.0	27.8	86	1498
18621	.0	3.2	17.6	45.8	26.7	7.0	74	1732
TOT	2	106	653	2366	2197	784	79	6158

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1880-1979

AREA 00'S GULF OF TEHUANTEPEC
14.3N 94.4W

TABLE 17

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

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	% FOG	#C FOG
17/19	.0	.0	.0	.0	*	*	*	.0	4	.0	.1
14/16	.0	.0	.0	*	*	*	.1	*	9	.0	.1
11/13	.0	.0	*	.1	.3	.1	.1	*	47	.0	.7
9/10	.0	.0	.1	.2	.2	.1	.2	*	56	.0	.6
7/8	.0	.1	.1	.6	.7	.3	.3	.0	137	.0	2.1
6	.0	*	.2	.4	.5	.4	.1	.0	170	*	1.5
5	.1	.1	.3	.9	.9	.7	.4	*	187	.0	2.6
4	*	.1	.6	1.0	1.4	.8	.1	*	256	*	3.5
3	.0	.1	.6	1.1	1.3	.9	*	.0	260	.0	3.6
2	.0	.2	.7	2.0	2.6	1.4	.1	.0	482	*	7.3
1	*	.2	1.6	2.0	3.0	1.2	*	.0	469	.1	7.6
	*	.4	1.5	3.5	6.8	1.1	*	.0	664	.1	13.6
-1	*	.2	1.0	2.8	6.4	.6	.0	.0	723	*	11.0
-2	*	.2	1.0	4.4	6.5	.2	.0	.0	807	.1	12.2
-3	.0	.1	.5	3.4	4.9	.1	.0	.0	602	*	9.1
-4	*	.1	.7	3.8	3.6	*	.0	.0	544	.0	8.3
-5	*	.1	.7	3.1	2.0	*	.0	.0	393	.0	6.0
-6	.0	.2	.6	2.1	.8	.0	.0	.0	222	*	3.4
-7/-8	*	.1	1.1	2.3	.4	*	.0	.0	257	.0	3.9
-9/-10	*	.1	.5	.5	*	.0	.0	.0	80	.0	1.2
-11/-12	*	.2	.3	.1	*	.0	.0	.0	49	.0	.7
-14/-16	.1	.1	*	*	*	.0	.0	.0	17	*	.2
-17/-19	*	*	.0	.0	.0	.0	.0	.0	2	.0	*
TOTAL	23		736		2798		95			21	0570
		160		2236		535		6	6591		
PCT	.3	2.4	11.2	33.9	42.5	8.1	1.4	.1	100.0	.3	19.7

PERIOD: (OVER-ALL) 1963-1979

Table 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.8	.1	.0	.0	.0	2.7
1-2	.5	4.5	1.3	*	.0	.0	6.3
3-4	.1	2.1	3.3	.8	.0	.0	6.3
5-6	.0	.5	3.3	1.3	.1	.0	5.3
7	.0	.2	1.6	2.1	.6	.1	4.6
8-9	.0	.3	.9	1.3	.5	.1	3.2
10-11	.0	.0	.1	1.1	.1	.0	1.3
12	.0	.0	.2	.5	.3	.0	1.0
13-16	.0	.0	.0	.4	.3	.0	.7
17-19	.0	.0	.0	.1	.2	.0	.3
20-22	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.0	.1	.0	.1
26-32	.0	.0	.0	.0	.1	.0	.1
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	9.5	11.0	7.7	2.4	.3	32.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.5	.6	.0	.0	.6	2.2
1-2	.2	2.4	.5	*	.0	.0	3.3
3-4	.1	2.0	2.5	.5	.0	.0	5.1
5-6	.0	.2	2.1	.6	.2	.0	3.1
7	.0	.0	.9	1.0	.4	*	2.4
8-9	.0	.1	.3	.6	.2	.0	1.1
10-11	.0	.0	.1	.7	.1	.0	.9
12	.0	.0	.0	.4	.1	.0	.5
13-16	.0	.0	.0	.2	.4	.0	.6
17-19	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.1	*	.1
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	*
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	6.6	3.8	1.6	*	.6	19.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.1	.0	.0	.0	.0	1.6
1-2	.5	1.8	.4	.0	.0	.0	2.7
3-4	.1	.5	1.2	.0	.0	.0	1.7
5-6	.1	.2	.6	.1	.0	.0	1.0
7	.0	.1	.4	.2	*	.0	.7
8-9	.0	.0	.1	.1	.0	.0	.1
10-11	.0	.0	*	.0	.0	.0	*
12	.0	.0	.0	.0	.1	.0	.1
13-16	.0	.0	.0	.0	*	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	3.7	2.7	.3	.2	.0	8.0

SE

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

PERIOD: (OVER-ALL) 1953-1979 NOVEMBER AREA CODE GULF OF TEHUANTEPEC
TABLE 18 (CONT) 14.1N 94.9W

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

S

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

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	2.7	.6	.3	*	.0	4.1
1-2	.6	1.2	.0	.0	.0	.0	1.8
3-4	.4	2.6	.4	.0	.0	.0	3.6
5-6	.1	1.1	.3	.0	.0	.0	1.4
7	.0	*	.2	*	.0	.0	.3
8-9	.0	.1	.1	.0	.0	.0	.1
10-11	.0	.0	*	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	5.2	1.1	.1	.0	.0	7.5

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	2.0	.1	.0	.0	.0	2.7
1-2	.8	4.4	.8	.0	.0	.0	6.1
3-4	.6	2.0	1.2	.3	.0	.0	3.6
5-6	.0	.3	.4	.2	*	.0	1.2
7	.0	.1	.7	.5	.3	*	1.5
8-9	.0	.1	.2	.4	.2	*	.8
10-11	.0	.0	.1	.1	.1	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.1	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	8.9	3.7	1.5	.6	*	16.2

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	2.0	.1	.0	.0	.0	2.7
1-2	.4	4.4	.8	.0	.0	.0	6.1
3-4	.3	2.0	1.2	.3	.0	.0	3.6
5-6	.0	.3	.4	.2	*	.0	1.2
7	.0	.1	.7	.5	.3	*	1.5
8-9	.0	.1	.2	.4	.2	*	.8
10-11	.0	.0	.1	.1	.1	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.1	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	8.9	3.7	1.5	.6	*	16.2

HGT	TOTAL PCT
<1	2.7
1-2	6.1
3-4	3.6
5-6	1.2
7	1.5
8-9	.8
10-11	.3
12	.0
13-16	.1
17-19	.0
20-22	.0
23-25	.0
26-32	.0
33-40	.0
41-48	.0
49-60	.0
61-70	.0
71-86	.0
87+	.0
TOT PCT	30.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	13.8	8.8	.1	.0	.0	.0	22.7	
1-2	3.5	18.9	3.2	.1	.0	.0	25.7	
3-4	.4	7.9	8.9	1.7	.0	.0	18.9	
5-6	.1	1.5	6.9	2.2	.3	.0	11.0	
7	.0	.5	3.6	3.7	1.4	.1	9.5	
8-9	.0	.3	1.6	2.5	.9	.1	5.4	
10-11	.0	.0	.4	2.0	.3	.0	2.7	
12	.0	.0	.2	.8	.5	.0	1.7	
13-16	.0	.0	.0	.6	.6	.0	1.5	
17-19	.0	.0	.0	.1	.2	.0	.4	
20-22	.0	.0	.0	.0	.2	.1	.2	
23-25	.0	.0	.0	.0	.1	.0	.1	
26-32	.0	.0	.0	.0	.1	.1	.1	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	17.9	36.1	25.2	13.6	4.8	.4	100.0	1617

PERIOD: (OVER-ALL) 1949-1979 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.3	12.6	11.4	5.7	2.5	1.3	.7	.3	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	2154	3
6-7	.1	2.2	6.6	7.4	4.1	2.8	1.6	.8	.9	.1	.2	*	*	.0	.0	.0	.0	.0	.0	1431	6
8-9	.1	.7	1.6	2.1	2.6	1.6	1.1	.5	.9	.2	.1	.1	.1	*	.0	.0	.0	.0	.0	629	7
10-11	.0	.5	.5	.6	.8	.6	.6	.4	.4	.1	.1	.0	.1	*	.0	.0	.0	.0	.0	261	8
12-13	.0	.0	.5	.4	.3	.3	.2	.2	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	121	8
>13	.0	.0	.0	.1	.3	.1	.2	.1	.1	.1	*	*	*	.0	.0	.0	.0	.0	.0	49	10
INDET	7.7	.9	1.9	.9	.6	.3	.1	.1	*	*	*	*	*	.0	.0	.0	.0	.0	.0	676	2
TOTAL	760	937	1204	927	601	378	237	125	158	39	24	10	10	3	0	0	0	0	0	5323	5
PCT	15.2	17.0	22.6	17.4	11.3	7.1	4.5	2.3	3.0	.7	.5	.2	.2	.1	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1861-1979

AREA NO'E GULF OF TEHUANTEPEC
14.1N 94.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.1	.0	.1	.0	.0	.0	.0	.2	.0	.5	.4	*	1.6		.4	96.9
NE	.0	.0	.0	.0	.0	.0	.0	.0	.2	.4	.5	.0	1.6		.6	96.7
E	.2	.0	.0	.0	.0	.0	.0	.2	.5	.6	.5	.0	1.2		.1	96.6
SE	.1	.6	.6	.0	.0	.0	.0	1.2	.8	.1	1.4	.2	.9		.0	94.8
S	.4	.6	.6	.0	.0	.3	.0	1.9	.0	.0	.9	.5	1.6		.0	95.1
SW	1.1	.0	.0	.0	.0	.0	.0	1.1	.1	.6	1.1	.1	2.4		.1	94.6
W	.2	.2	.0	.0	.0	.0	.0	.4	.2	.3	.2	.2	1.2		.0	97.4
NW	*	.1	.0	.0	.0	.0	.0	.1	.0	1.0	.4	*	1.3		*	97.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.1	.0	.0	.0	.0	.0	.1	.0	.4	2.7	.1	2.4		.0	93.4
TOT PCT	.1	.1	.1	.0	.0	.0	.0	.3	.1	.6	.7	.1	1.6		.3	96.4
TOT OBS	6813															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00E03	.0	.1	.1	.0	.0	.0	.0	.2	.1	.1	.3	.0	1.9		.4	97.0
06E09	.1	.1	.2	.0	.0	.0	.0	.4	.3	1.6	.4	.3	1.5		.1	95.0
12E15	.2	.1	.0	.0	.0	.0	.0	.3	.2	.6	1.0	.1	1.5		.1	96.3
18E21	.2	.0	.0	.0	.0	.0	.0	.2	.1	.2	.9	.1	1.5		.3	96.7
TOT PCT	.1	.1	.1	.0	.0	.0	.0	.3	.1	.6	.8	.1	1.6		.3	96.3
TOT OBS:	6795															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.6	10.7	9.8	7.2	2.5	.4		33.1	16.6	33.0	34.2	28.6	33.0	32.5	36.4	36.2	39.9
NE	1.7	7.0	6.0	4.5	1.1	.2		20.4	15.8	21.3	23.4	19.7	22.5	18.4	23.2	21.4	19.7
E	1.0	4.2	1.9	.7	.1	.0		7.9	10.4	6.8	6.8	8.9	6.4	7.7	9.1	8.3	7.5
SE	.6	1.5	.2	*	.0	.0		2.4	6.3	2.3	1.8	2.4	1.5	2.0	1.3	2.8	2.6
S	.7	1.4	.2	*	*	.0		2.3	6.2	2.9	4.7	2.0	3.0	1.5	2.1	2.7	.9
SW	.5	1.7	.3	*	*	.0		2.6	7.0	4.0	2.0	2.7	2.7	2.2	1.5	1.7	1.3
W	1.3	3.9	.7	.1	*	.0		6.0	6.6	8.1	8.3	6.6	3.3	5.3	4.2	4.6	4.2
NW	1.9	7.7	3.2	1.2	.2	.1		14.5	10.7	12.3	9.7	13.7	16.9	15.6	17.1	15.7	15.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.8							10.8	.0	9.3	9.0	15.0	8.9	14.9	5.1	6.6	8.0
TOT OBS	1506	2717	1579	980	289	47	7118		12.0	1607	111	1523	169	1429	195	1910	174
TOT PCT	21.2	38.2	22.2	13.8	4.1	.7		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	7.7	10.8	8.6	5.1	.9		33.1	16.6	33.1	29.1	33.0	36.5
NE	4.9	7.1	5.2	2.9	.4		20.4	15.8	21.4	19.9	19.0	21.2
E	3.2	3.5	.9	.4	*		7.9	10.4	6.8	8.8	7.9	8.2
SE	1.5	.6	.1	*	.0		2.4	6.3	2.3	2.6	1.9	2.8
S	1.4	.7	*	*	.0		2.3	6.2	3.0	2.1	1.5	2.5
SW	1.5	1.0	*	*	*		2.6	7.0	3.9	2.7	2.1	1.7
W	3.8	2.1	.1	*	.0		6.0	6.6	6.1	6.3	5.2	4.5
NW	6.0	5.6	2.0	.7	.1		14.5	10.7	12.2	14.0	15.7	15.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	10.8						10.8	.0	9.3	14.4	13.7	6.8
TOT OBS	2908	2253	1202	652	103	7118		12.0	1716	1692	1624	2084
TOT PCT	40.9	31.7	16.9	9.2	1.4		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1952-1979
(DEVEP-ALL) 1861-1979

TABLE 4

AREA 0078 GULF OF TEHUANTEPEC
14.5N 94.9W

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
00L03	4.3	10.3	39.1	22.6	13.5	4.0	1.0	12.2	100.0	1718
06L09	14.4	10.3	37.6	19.6	12.9	4.3	.7	11.4	100.0	1692
12L15	13.7	10.3	38.1	21.1	12.6	3.7	.5	11.3	100.0	1624
18L21	6.6	10.5	37.8	24.6	15.7	4.2	.5	12.6	100.0	2084
TOT	768	736	2717	1579	980	289	47	12.0		7118
PCT	10.8	10.4	38.2	22.2	13.8	4.1	.7		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	24.5	4.4	3.3	.6		1.6
NE	18.3	3.2	2.4	.3		1.7
E	4.7	1.5	1.3	.2		2.3
SE	4.5	.5	.5	.1		2.5
S	1.3	.4	.5	*		2.5
SW	1.6	.6	.3	.1		2.2
W	4.2	1.2	.7	.1		1.9
NW	10.4	2.3	1.1	.3		1.6
VAR	.0	.0	.0	.0		.0
CALM	8.6	1.4	.9	.2		1.4
TOT OBS	3912	849	589	102	5452	1.7
TOT PCT	71.8	15.6	10.8	1.9	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	MM <5/8 ANY HGT	TOTAL OBS
N	*	.0	.1	.2	.4	.4	.1	.1	*	*	31.5	
NE	*	.0	*	.1	.2	.2	.1	*	.1	.1	19.2	
E	.1	.0	*	.2	.2	.1	.1	.1	*	*	6.9	
SE	.0	.0	.0	*	.1	.1	*	.0	*	*	2.3	
S	.0	.0	.0	.1	.1	.0	*	*	.0	.0	2.1	
SW	.0	.0	*	*	*	.1	.0	.0	*	*	2.4	
W	*	.0	*	*	.1	.1	.1	*	.0	*	5.8	
NW	*	.0	*	.1	.1	.1	.1	*	.0	*	13.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	*	*	.1	.1	.1	*	.0	.0	*	10.6	
TOT OBS	16	1	13	48	85	57	32	14	12	13	5166	5452
TOT PCT	.3	*	.2	.9	1.5	1.0	.6	.3	.2	.2	94.8	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >5/16	= OR >0
= OR >6500	.4	.4	.4	.4	.4	.4	.4	.4
= OR >5000	.7	.7	.7	.7	.7	.7	.7	.7
= OR >3500	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3
= OR >2000	2.1	2.3	2.3	2.3	2.3	2.3	2.3	2.3
= OR >1000	3.4	3.7	3.8	3.9	3.9	3.9	3.9	3.9
= OR >600	4.1	4.6	4.7	4.7	4.7	4.7	4.7	4.7
= OR >300	4.3	4.8	4.9	5.0	5.1	5.0	5.0	5.0
= OR >150	4.3	4.9	5.0	5.0	5.0	5.0	5.0	5.0
= OR > 0	4.4	5.0	5.1	5.2	5.2	5.2	5.3	5.3
TOTAL	246	260	267	268	269	293	294	294

TOTAL NUMBER OF OBS: 5452 PCT FREQ MM <5/8: 94.7

TABLE 8

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
44.1	23.5	13.0	7.	.1	1.9	1.7	1.0	.6	.2	5832

DECEMBER

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1861-1979

AREA 0078 GULF OF TEHUANTEPEC
14.1N 94.9W

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	*	*	.0	.0	*	.0	.0	*	.0	.2	.2	
	TOT %	*	*	.0	.0	*	.0	.0	*	.0	.2	.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	*	.1	
	TOT %	.0	*	*	.0	.0	.0	.0	.0	.0	*	.1	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	*	.0	.0	.0	.0	.0	.0	.0	*	*	
	TOT %	.0	*	.0	.0	.0	.0	.0	.0	.0	*	*	
2<5	PCP	.0	.0	.0	.0	*	*	.0	.0	.0	.0	*	
	NO PCP	.1	*	*	*	*	*	.0	*	.0	*	.3	
	TOT %	.1	*	*	*	*	*	.0	*	.0	*	.3	
5<10	PCP	*	.0	.0	*	*	.0	*	*	.0	.0	.1	
	NO PCP	2.3	1.5	.6	.2	.2	.2	.3	.7	.0	.6	6.4	
	TOT %	2.3	1.5	.6	.2	.2	.2	.3	.7	.0	.6	6.5	
10+	PCP	*	.0	*	*	*	*	*	*	.0	*	.1	
	NO PCP	30.5	18.8	7.2	2.2	2.2	2.4	5.8	13.7	.0	9.9	92.7	
	TOT %	30.5	18.8	7.3	2.3	2.2	2.4	5.8	13.7	.0	9.9	92.9	
	TOT OBS												6559
	TOT PCT	32.9	20.4	7.9	2.5	2.4	2.7	6.1	14.4	.0	10.7	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	.0	.0	.0	.0	.0	.0	*	.0	.1	.2	
	4-10	*	.0	.0	.0	*	.0	.0	*	.0		.1	
	11-21	*	*	*	.0	.0	.0	.0	.0	.0		.1	
	22+	*	.0	.0	.0	.0	.0	.0	.0	.0		*	
	TOT %	.1	*	*	.0	*	.0	.0	*	.0	.1	.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	*	.0	.0	.0	.0	.0	.0	*	.0		*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	*	*	.0	.0	.0	.0	.0	.0		*	
	TOT %	*	*	*	.0	.0	.0	.0	*	.0	*	.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	*	*	*	.0	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	TOT %	*	*	*	.0	.0	.0	.0	.0	.0	*	.1	
2<5	0-3	*	.0	.0	.0	*	*	.0	.0	.0	.1	.1	
	4-10	.0	*	.0	*	.0	*	.0	*	.0		.1	
	11-21	*	*	*	.0	*	*	*	.0	.0		.1	
	22+	.2	.1	.0	.0	.0	.0	.0	*	.0		.3	
	TOT %	.2	.1	*	*	*	*	*	.1	.0	.1	.6	
5<10	0-3	.2	.2	.1	.1	.1	.1	.1	.1	.0	.6	1.5	
	4-10	.5	.4	.4	.1	.1	.1	.2	.3	.0		1.9	
	11-21	.3	.2	.1	*	*	*	*	.1	.0		.6	
	22+	1.2	.7	.1	.0	.0	.0	.0	.1	.0		2.1	
	TOT %	2.2	1.4	.6	.2	.2	.2	.3	.6	.0	.6	6.3	
10+	0-3	2.3	1.5	1.0	.5	.7	.4	1.2	1.8	.0	9.9	19.3	
	4-10	10.2	9.7	3.8	1.4	1.3	1.7	3.8	7.4	.0		36.2	
	11-21	9.4	5.7	1.7	.2	.1	.3	.6	3.1	.0		21.1	
	22+	8.7	5.0	.6	*	*	*	.1	1.4	.0		16.0	
	TOT %	30.6	18.8	7.2	2.2	2.1	2.4	5.7	13.6	.0	9.9	92.7	
	TOT OBS												6916
	TOT PCT	33.2	20.4	7.9	2.4	2.3	2.6	6.0	14.3	.0	10.8	100.0	

DECEMBER

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1861-1979

AREA 00CA GULF OF TEHUANTEPEC
14.1N 94.9W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,AM >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	.1	.0	.2	.7	1.8	.9	.6	.2	.2	.3	5.2	94.6	1508
06E09	.3	.0	.3	.6	1.0	.7	.5	.3	.3	.4	4.5	95.5	1321
12E15	.3	.1	.3	1.5	1.8	1.1	.6	.4	.1	.2	6.5	93.5	1363
18E21	.4	.0	.2	.4	1.2	1.2	.4	.2	.2	.0	4.2	95.8	1626
TOT	16	1	14	46	84	57	33	16	12	13	294	5424	5818
PCT	.3	*	.2	.8	1.4	1.0	.6	.3	.2	.2	5.1	94.9	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	.2	.0	.1	.6	5.8	93.3	1736
06E09	.2	.1	.1	.6	6.7	92.2	1677
12E15	.6	.1	.1	.6	7.4	91.2	1642
18E21	.2	.1	*	.4	5.6	93.6	2035
TOT	21	5	5	43	446	6568	7090
PCT	.3	.1	.1	.6	6.3	92.6	100.0

TABLE 12

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

HOUR (GMT)	<150 <500YD	<600 <1	<1000 <3	1000+ AND5+	NM <5/8 AND 5+	TOTAL OBS
00E03	.1	.4	1.7	4.2	94.1	1466
06E09	.3	.6	2.1	3.2	94.7	1268
12E15	.4	.8	3.1	4.3	92.7	1309
18E21	.5	.7	1.4	3.3	95.3	1561
TOT	18	36	113	209	5262	5584
PCT	.3	.6	2.0	3.7	94.2	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	.3	.1	.2	.1	*	*	23	.4
85/89	.0	.0	.1	.4	1.6	2.6	.1	.1	292	5.3
80/84	.0	*	.1	.9	5.6	19.4	13.4	2.5	2307	42.0
75/79	.0	.0	.1	.5	2.4	13.5	15.6	7.4	2187	39.8
70/74	.0	.0	.0	.1	.9	3.6	4.3	2.8	644	11.7
65/69	.0	.0	.0	.0	.1	.2	.4	.2	43	.8
TOTAL	0	1	14	108	592	2161	1961	719	5496	100.0
PCT	.0	*	.3	2.0	10.8	39.3	34.6	13.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

%	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.1	.1	.0	.0	.0	*	.1	.0	*
1.5	1.0	.5	.2	.2	.2	.5	.8	.0	.5
11.3	7.4	3.8	1.5	1.1	1.3	3.8	7.0	.0	2.0
14.1	6.6	2.9	.8	.9	.9	1.9	5.3	.0	4.6
5.3	3.3	.5	.2	.2	.1	.2	1.1	.0	.9
.4	.2	*	.0	.0	.0	.0	.1	.0	.0
32.6	20.5	7.8	2.4	2.3	2.5	6.5	14.3	.1	11.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	92	88	84	80	73	70	63	79.3	1751
06E09	86	84	82	78	72	69	65	77.9	1725
12E15	86	84	82	78	72	68	66	77.5	1662
18E21	94	90	87	81	73	70	66	80.4	2108
TOT	94	88	85	79	72	69	63	78.9	7246

TABLE 16

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	1.7	13.5	44.0	31.3	9.4	78	1495
06E09	.0	1.6	6.1	34.4	39.6	18.3	81	1331
12E15	.0	1.3	5.6	32.1	42.2	18.7	82	1335
18E21	.0	3.9	16.5	47.1	27.1	7.4	76	1558
TOT	0	125	667	2218	1957	742	79	5699

DECEMBER

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1961-1979

AREA 00'S GULF OF TEHUANTEPEC
14.1N 94.9W

TABLE 17

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

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	* FOG	=0 FOG
17/19	.0	.0	.0	.0	*	*	.0	.0	2	.0	*
14/16	.0	.0	.0	*	.1	.1	*	.0	13	.0	.2
11/13	.0	.0	.0	*	.2	.1	.1	*	29	.0	.5
9/10	.0	*	.1	.3	.3	.1	.1	.0	60	.0	1.0
7/8	.0	.0	.2	.5	.6	.4	.1	*	113	*	1.8
6	.0	*	.4	.5	.4	.1	.1	.0	106	*	1.7
5	.0	.1	.5	1.0	.9	.6	.1	.0	191	*	3.1
4	.0	.2	.8	1.2	1.1	.5	.1	.0	235	*	3.8
3	.0	.1	.8	1.2	1.2	.7	*	.0	251	*	4.1
2	.1	.4	1.6	2.6	2.5	.7	.0	.0	445	.1	7.1
1	*	.3	1.6	2.4	2.5	.6	.0	.0	458	.1	7.3
0	*	.6	2.1	4.6	5.4	.4	.0	.0	806	.1	13.0
-1	*	.5	1.5	3.8	4.4	.2	*	.0	635	.1	10.2
-2	.1	.4	1.4	5.6	3.9	.1	.0	.0	711	.1	11.4
-3	.1	.2	1.2	4.1	2.8	.1	.0	.0	519	*	8.4
-4	.1	.2	1.6	5.1	1.8	*	.0	.0	525	*	8.7
-5	.0	.3	1.7	3.3	1.1	.0	.0	.0	357	*	5.8
-6	.0	.2	1.1	2.0	.3	.0	.0	.0	211	.0	3.4
-7/-8	*	.1	1.0	2.1	.2	.0	.0	.0	283	*	4.6
-9/-10	.1	.3	1.1	.5	*	.0	.0	.0	124	.0	2.0
-11/-13	.1	.3	.3	*	.0	.0	.0	.0	52	.0	.8
-14/-16	.1	.1	.0	.0	.0	.0	.0	.0	11	.0	.2
-17/-19	*	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	43	272	1197	2462	1461	314	41	3	6148	47	(100)
PCT	.7	4.4	19.4	40.0	29.6	5.1	.7	*	100.0	.8	76.2

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.7	1.6	.0	.0	.0	.0	3.3
1-2	.7	5.6	1.1	.0	.0	.0	7.3
3-4	.1	2.1	3.0	.8	.0	.0	5.9
5-6	.0	.4	2.6	1.3	.6	.0	4.9
7	.0	.0	1.0	1.9	.3	.0	3.2
8-9	.0	.1	.6	1.0	.5	.1	2.5
10-11	.0	.0	.1	1.2	.6	.0	1.9
12	.0	.0	.0	.5	.3	.0	.7
13-16	.0	.0	.1	.5	.8	.2	1.6
17-19	.0	.0	.0	.2	.0	.0	.2
20-22	.0	.0	.0	.0	.1	.1	.3
23-25	.0	.0	.0	.0	.1	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.5	9.8	8.9	7.4	2.9	.4	31.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.1	.0	.0	.0	.0	1.9
1-2	.4	4.0	.7	.0	.0	.0	5.1
3-4	.1	1.8	1.6	.3	.0	.0	3.8
5-6	.0	.4	1.7	1.0	.1	.0	3.1
7	.0	*	1.3	1.6	.1	.0	3.0
8-9	.0	.1	.4	1.1	.2	.0	1.8
10-11	.0	.0	.0	.5	.3	.0	.8
12	.0	.0	.0	.3	.2	.0	.5
13-16	.0	.0	.0	.5	.5	.1	1.0
17-19	.0	.0	.0	.1	.1	.0	.2
20-22	.0	.0	.0	.0	.1	.1	.2
23-25	.0	.0	.0	.0	.1	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	7.5	4.6	5.4	1.6	.1	21.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.8	.0	.0	.0	.0	1.3
1-2	.2	2.9	.5	.0	.0	.0	3.1
3-4	.0	1.4	.6	.0	.0	.0	2.0
5-6	.0	.3	.8	.1	.1	.0	1.1
7	.0	.3	.1	.1	.0	.0	.5
8-9	.0	.1	.0	.2	.0	.0	.3
10-11	.0	.0	.0	.1	.1	.0	.1
12	.0	.0	.0	.1	.1	.0	.1
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	5.1	2.0	.6	.2	.0	8.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.4	.0	.0	.0	.0	.9
1-2	.2	1.6	.1	.0	.0	.0	1.9
3-4	.0	.4	.1	.0	.0	.0	.5
5-6	.0	.0	.1	.1	.0	.0	.1
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	1.4	.3	.1	.0	.0	2.7

PERIOD: (OVER-ALL) 1963-1979 DECEMBER AREA GFDR GULF OF TEHUANTEPEC 14.1N 94.9W

TABLE 16 (CONT)

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

S

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

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.3	.0	.0	.0	.0	.9
1-2	.1	1.2	.2	.0	.0	.0	1.4
3-4	.1	.1	.0	.0	.0	.0	.2
5-6	.0	.1	.0	.0	.0	.0	.2
7	.0	.1	.0	.0	.0	.0	.3
8-9	.0	.1	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	1.8	.3	.0	.0	.0	2.6

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	1.1	.0	.0	.0	.0	2.0
1-2	.5	2.6	.1	.0	.0	.0	3.2
3-4	.1	.3	.5	.0	.0	.0	.9
5-6	.0	.1	.1	.0	.0	.0	.2
7	.0	.1	.1	.2	.0	.0	.3
8-9	.0	.0	.1	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	4.3	.2	.2	.0	.0	6.2

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	1.3	.0	.0	.0	.0	2.6
1-2	.8	4.5	.3	.0	.0	.0	5.6
3-4	•	1.2	1.2	.1	.0	.0	2.6
5-6	.0	.1	.6	.3	•	.0	1.0
7	.0	.1	.1	.5	.0	.0	.7
8-9	.0	.1	.2	.3	.1	.0	.7
10-11	.0	.0	•	.1	.2	.0	.3
12	.0	.0	.0	•	.0	.0	•
13-16	.0	.0	•	.1	•	.0	.1
17-19	.0	.0	.1	.0	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	7.5	2.5	1.4	.3	.0	13.6	90.3

TOTAL PCT

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	16.5	7.5	.0	.0	.0	.0	24.0	
1-2	3.5	21.8	2.9	.0	.0	.0	28.2	
3-4	.5	7.5	7.1	1.2	.0	.0	16.2	
5-6	.1	1.9	6.1	2.6	.5	.0	10.7	
7	.0	.9	2.6	4.2	.4	.0	7.6	
8-9	.0	.9	1.9	2.6	.8	.1	5.2	
10-11	.0	.0	.1	1.8	1.1	.0	3.1	
12	.0	.0	.0	.9	.5	.0	1.3	
13-16	.0	.0	.1	1.1	1.3	.3	2.6	
17-19	.0	.0	.0	.3	.1	.0	.4	
20-22	.0	.0	.0	.0	.2	.2	.4	
23-25	.0	.0	.0	.0	.2	.0	.2	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								2515
TOT PCT	20.7	38.9	20.2	14.8	4.6	.5	100.0	

PERIOD: (OVER-ALL) 1949-1979 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	6.0	13.7	11.7	6.1	2.2	1.8	.9	.9	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2145	3
6-7	.1	2.0	4.7	5.6	4.0	2.5	1.7	.9	1.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	1196	6
8-9	.1	.6	1.8	1.9	2.0	1.5	1.5	.6	.9	.4	.1	•	•	•	.0	.0	.0	.0	.0	566	8
10-11	.0	.7	.6	.6	.5	.8	.6	.4	.6	.1	.1	•	.1	.0	.0	.0	.0	.0	.0	257	8
12-13	.0	.0	.5	.3	.2	.3	.2	.1	.3	•	•	.0	•	.0	.0	.0	.0	.0	.0	104	8
>13	.0	.0	.0	.2	.1	.2	.1	.1	.2	.1	.1	.1	•	•	.0	.0	.0	.0	.0	61	12
INDET	.1	1.4	1.2	.7	.4	.4	.3	.2	.1	.0	•	•	.0	•	.0	.0	.0	.0	.0	685	2
TOTAL	756	909	1618	763	465	366	265	130	180	50	28	11	10	5	0	0	0	0	0	4964	5
PCT	15.2	18.3	25.5	15.5	9.4	7.4	5.3	2.6	3.6	1.0	.6	.2	.2	.1	.0	.0	.0	.0	.0	100.0	

ANNUAL

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1859-1979

AREA 0618 GULF OF TEHUANTEPEC
14.0N 96.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	1.1	.6	.4	.0	.0	.0	*	2.1	1.0	2.0	.3	*	2.9	.2	94.9
NE	1.6	1.0	.6	.0	.0	.0	.0	3.1	1.6	2.8	.3	*	1.9	.2	90.2
E	2.5	1.4	.9	.0	.0	.0	.0	4.7	2.3	3.1	.3	*	2.2	.1	87.5
SE	2.5	1.7	.8	.0	.0	.0	*	5.2	2.5	3.6	.6	.1	2.3	*	86.1
S	2.1	2.3	1.0	.0	.0	.0	.0	6.3	2.6	3.0	.4	.1	2.0	.1	85.7
SW	2.1	2.0	1.0	.0	.0	.0	*	6.0	3.1	4.9	.4	.1	2.4	*	85.5
W	2.1	1.1	.8	.0	.0	.0	*	3.5	2.0	3.0	.2	*	2.0	.1	88.9
NW	1.5	.7	.5	.0	.0	.0	*	2.6	1.3	2.9	.2	*	1.1	.1	90.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.3	.3	.2	.0	.0	.0	*	.6	.7	4.4	.9	.1	4.8	.1	90.4
TOT PCT	1.9	1.1	.6	.0	.0	.0	*	3.6	1.8	3.0	.4	*	2.6	.1	88.7
TOT OBS: 69756															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00E03	1.1	.6	.5	.0	.0	.0	*	2.3	1.3	.5	.2	*	2.6	.2	92.7
06E09	1.5	.9	.6	.0	.0	.0	*	2.9	1.3	6.2	.4	*	2.4	.1	86.9
12E15	3.1	1.8	.9	.0	.0	.0	*	5.8	2.4	4.3	.6	*	2.5	.1	84.8
18E21	1.8	1.0	.6	.0	.0	.0	*	3.4	1.9	.3	.4	*	2.5	.2	91.3
TOT PCT	1.9	1.1	.6	.0	.0	.0	*	3.6	1.8	3.1	.4	*	2.6	.1	88.6
TOT OBS: 92509															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)				
WND DIR	0-3	4-10	11-21	22-32	33-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.1	7.8	5.7	3.3	1.0	.2		20.1	13.1	17.9	15.1	15.6	19.1	21.6	22.7	24.2	21.9
NE	1.4	5.9	4.5	2.1	.6	.1		14.5	13.2	14.2	14.	12.2	13.4	14.5	16.3	16.5	15.7
E	1.3	6.2	3.3	.6	.1	*		11.5	9.9	11.1	11.0	11.3	10.0	11.1	11.0	12.7	11.3
SE	1.0	3.9	1.5	.1	*	*		6.6	7.7	7.3	7.6	7.6	7.2	5.1	6.3	6.2	6.2
S	.9	2.8	.8	.1	*	.0		4.6	7.4	6.0	5.9	5.4	4.8	3.2	4.7	3.8	4.2
SW	.9	3.6	1.1	.1	*	*		5.7	7.9	7.8	8.3	6.1	6.5	4.2	6.7	4.4	6.9
W	2.0	4.0	2.3	.2	*	*		12.5	7.7	13.9	14.3	14.1	11.3	10.5	10.5	10.2	11.3
NW	2.0	7.9	2.7	.6	.1	*		13.4	9.1	11.6	12.6	12.0	14.5	15.4	15.4	14.2	14.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	11.1							11.1	.0	10.7	11.2	15.7	12.9	12.3	7.6	7.5	8.2
TOT OBS							96349		9.6	21843	16011	20374	2332	19565	26649	25520	24665
TOT PCT	22.8	46.0	21.9	7.2	1.9	.2		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	5.9	7.2	4.5	2.1	.4		20.1	13.1	17.7	15.4	21.8	24.0
NE	4.1	5.8	3.1	1.3	.2		14.5	13.2	14.2	12.3	16.7	16.5
E	4.2	5.7	1.3	.2	*		11.5	9.9	11.1	11.1	11.1	12.5
SE	3.0	3.1	.5	.1	*		6.6	7.7	7.3	7.6	5.2	6.2
S	2.4	1.9	.2	*	*		4.6	7.4	6.0	5.4	3.3	3.8
SW	2.8	2.5	.4	*	*		5.7	7.9	7.8	6.1	4.4	4.6
W	6.1	5.6	.6	.1	*		12.5	7.7	13.6	13.6	12.3	10.3
NW	6.1	5.7	1.2	.3	*		13.4	9.1	11.7	12.3	15.4	14.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	11.1						11.1	.0	10.3	15.4	11.8	7.9
TOT OBS						96349		9.6	23444	27706	22234	27965
TOT PCT	45.9	37.5	11.8	4.2	.6		100.0		100.0	100.0	100.0	100.0

ANNUAL

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1959-1979

AREA 08°8 GULF OF TEHUANTEPEC
14.0N 94.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00:03	10.3	12.0	47.6	21.6	6.4	1.9	.3	9.6	100.0	23448
06:09	15.4	11.4	46.1	16.3	6.3	1.5	.2	8.7	100.0	22706
12:15	11.6	10.5	45.9	22.2	7.4	1.7	.2	9.6	100.0	22234
18:21	7.9	11.6	44.8	24.7	8.4	2.2	.2	10.4	100.0	27965
TOT								9.6		96349
PCT	11.1	11.6	46.0	21.4	7.2	1.9	.2		100.0	

TABLE 5

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

WND DIR	0=0	1=2	3=4	5=7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	11.5	3.4	3.7	1.4			7.2
NE	7.2	2.5	3.2	1.5			5.3
E	3.5	2.1	3.7	2.2			5.7
SE	1.6	1.2	2.3	1.5			5.9
S	1.3	.9	1.5	1.0			5.9
SW	1.4	1.0	1.6	1.3			6.0
W	5.2	2.6	3.1	1.7			5.5
NW	6.6	2.6	2.7	1.2			5.3
VAR	.3	.0	.1	.0			.9
CALM	6.1	2.1	2.2	.6			2.6
TOT OBS						77207	5.6
TOT PCT	44.9	18.4	24.1	12.7	100.0		

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,WH >W/A) AND OCCURRENCE OF WH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	WH <5/8 ANY HGT	TOTAL OBS
N	.1	*	.1	.5	.9	.4	.2	.1	.1	.1	17.8	
NE	*	*	.1	.5	.7	.4	.2	.1	.1	.1	12.3	
E	.1	.1	.2	.8	1.2	.4	.2	.1	*	*	6.5	
SE	.1	*	.2	.5	.8	.3	.1	*	*	*	4.5	
S	*	*	.1	.4	.5	.2	.1	*	*	*	3.4	
SW	.1	*	.1	.4	.6	.2	.1	*	*	*	4.0	
W	.1	*	.2	.6	.9	.4	.1	*	*	*	10.2	
NW	.1	*	.1	.4	.6	.3	.2	*	*	*	11.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	*	*	.3	.4	.2	.1	*	*	*	10.0	
TOT OBS												7520*
TOT PCT	.6	.3	1.1	4.5	6.4	2.8	1.3	.4	.3	.3	82.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (WH >W/B) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >5GYD	= OR >0
= OR >6500	.5	.6	.6	.6	.6	.6	.6	.6
= OR >5000	.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0
= OR >3500	2.0	2.2	2.3	2.3	2.3	2.3	2.3	2.3
= OR >2000	4.3	4.9	5.0	5.0	5.1	5.1	5.1	5.1
= OR >1000	9.6	11.2	11.4	11.4	11.5	11.5	11.5	11.5
= OR >600	12.8	15.4	15.8	15.9	15.9	15.9	15.9	15.9
= OR >300	13.4	16.3	16.8	16.9	17.0	17.0	17.0	17.0
= OR >150	13.5	16.5	17.0	17.2	17.2	17.2	17.3	17.3
= OR > 0	13.7	16.8	17.4	17.6	17.7	17.7	17.8	17.8

TOTAL NUMBER OF OBS: 75280 PCT FREQ WH <5/8: 82.2

TABLE 7A

PERCENTAGE FREQ OF LCW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
29.2	19.1	15.4	11.0	7.2	6.4	4.7	3.4	5.2	.4	79326

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1859-1979

AREA NAME GULF OF TEHUANTEPEC
14.0N 94.0W

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	*	*	*	*	*	*	*	*	.1	*	.1	
<1/2	NO PCP	*	*	*	*	*	*	*	*	.0	*	.1	
	TOT %	*	*	*	*	*	*	*	*	.1	*	.2	
	PCP	*	*	*	*	*	*	*	*	.0	*	.1	
1/2<1	NO PCP	*	*	*	*	*	*	*	*	.0	*	*	
	TOT %	*	*	*	*	*	*	*	*	.1	*	.1	
	PCP	*	*	*	*	*	*	*	*		*	.2	
1<2	NO PCP	*	*	*	*	*	*	*	*	.0	*	.1	
	TOT %	*	*	*	*	*	*	*	*	.1	*	.2	
	PCP	*	*	.1	.1	*	.1	.1	*	*	*	.4	
2<5	NO PCP	.1	.1	.1	.1	*	*	.1	.1	.0	.1	.6	
	TOT %	.1	.1	.2	.1	.1	.1	.1	.1	.0	.1	1.0	
	PCP	.1	.2	.3	.2	.1	.2	.2	.1	.0	*	1.4	
5<10	NO PCP	1.6	1.1	.8	.5	.3	.5	.4	.6	.0	.9	7.6	
	TOT %	1.7	1.2	1.1	.7	.5	.7	1.1	1.0	.0	.9	8.9	
	PCP	.1	.2	.3	.2	.1	.2	.2	.1	.0	*	1.5	
10+	NO PCP	18.1	12.9	10.0	5.5	3.5	4.7	11.1	12.1	.7	9.6	86.1	
	TOT %	18.2	13.1	10.3	5.7	4.0	4.9	11.3	12.3	.0	9.6	89.6	
	TOT OBS												69579
	TOT PCT	20.1	14.5	11.6	6.6	4.6	5.7	12.6	13.4	.1	10.4	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	*	*	*	*	*	*	*	*	.0	*	.1	
<1/2	4-10	*	*	*	*	*	*	*	*	.0		.1	
	11-21	*	*	*	*	*	*	*	*	.0		.1	
	22+	*	*	*	*	*	*	*	*	.0		*	
	TOT %	*	*	*	*	*	*	*	*	.0	*	.3	
	0-3	*	*	.0	.0	.0	.0	*	*	.0	*	*	
1/2<1	4-10	*	*	*	*	*	*	*	*	.0		*	
	11-21	*	*	*	*	*	*	*	*	.0		*	
	22+	*	*	*	.0	*	*	*	*	.0		*	
	TOT %	*	*	*	*	*	*	*	*	.0	*	.1	
	0-3	*	.0	*	*	.0	*	*	*	.0	*	*	
1<2	4-10	*	*	*	*	*	*	*	*	.0		.1	
	11-21	*	*	*	*	*	*	*	*	.0		.1	
	22+	*	*	*	*	*	*	*	*	.0		.1	
	TOT %	*	*	.1	.1	*	*	*	*	.0	*	.3	
	0-3	*	*	*	*	*	*	*	*	.0	.1	.2	
2<5	4-10	.1	*	.1	.1	*	.1	.1	*	.0		.4	
	11-21	*	.1	.1	.1	*	*	.1	*	.0		.4	
	22+	.1	.1	*	*	*	*	*	*	.0		.2	
	TOT %	.2	.2	.2	.1	.1	.1	.1	.1	.0	.1	1.2	
	0-3	.1	.1	.1	.1	.1	.1	.2	.1	.0	.9	1.6	
5 10	4-10	.5	.4	.5	.3	.3	.3	.6	.5	.0		3.4	
	11-21	.4	.4	.4	.2	.1	.2	.3	.2	.0		2.2	
	22+	.6	.4	.1	*	*	*	.1	.1	.0		1.4	
	TOT %	1.7	1.2	1.1	.7	.5	.7	1.1	1.2	.0	.9	8.6	
	0-3	2.0	1.2	1.2	.9	.8	.9	1.8	1.8	.0	10.0	20.5	
10+	4-10	7.2	5.4	5.7	3.5	2.5	3.1	7.3	7.3	.0		42.1	
	11-21	5.3	4.3	2.8	1.2	.6	.6	2.3	2.4	.0		19.1	
	22+	3.6	2.3	.5	.1	.1	.1	.1	.7	.0		7.6	
	TOT %	18.2	13.0	10.2	5.7	4.0	4.9	11.2	12.2	.0	10.0	89.3	
	TOT OBS												93695
	TOT PCT	20.1	14.5	11.6	6.6	4.6	5.7	12.5	13.3	.0	11.1	100.0	

ANNUAL

PERIOD: (PRIMARY) 1955-1974 (OVERFLOW) 1955-1974

TABLE 10

AREA CODE GULF OF TEHUANTEPEC 14.0N 94.0W

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,MM HG/83) AND OCCURRENCE OF V <5/6 BY HOUR

HOUR (GMT)	0-3	150	300	600	1000	2000	3500	5000	6500	7000+	TOTAL	NM <5/6 ANY HGT	TOTAL OBS
00E03	.3	.2	.6	3.2	5.0	2.4	1.0	.4	.3	.4	13.0	61.0	20365
06E09	.6	.2	.8	3.9	5.4	2.1	1.0	.3	.7	.3	14.6	61.2	17494
12E15	.7	.3	1.0	5.6	7.6	3.0	1.3	.3	.3	.3	21.1	7 .9	18270
18E21	.5	.2	1.1	4.6	6.7	3.1	1.5	.5	.3	.2	19.9	61.1	22073
TOT PCT	.5	.2	1.0	4.3	6.2	2.7	1.2	.4	.3	.3	17.2	61.6	78402 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.2	.1	.2	.9	7.1	91.5	23717
06E09	.2	.1	.2	1.1	9.3	89.0	22726
12E15	.4	.1	.4	1.6	11.1	86.3	22932
18E21	.3	.1	.3	1.2	9.1	90.1	27654
TOT PCT	.3	.1	.3	1.2	9.6	89.2	96692 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,MM HG/83) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NM <5/6 AND 5+	TOTAL OBS
00E03	.4	2.5	5.3	9.6	85.1	19748
06E09	.6	3.7	6.4	9.5	94.1	16745
12E15	.8	2.8	5.1	12.9	77.6	17543
18E21	.6	2.1	7.2	12.5	80.2	21244
TOT PCT	.6	2.0	7.1	11.2	91.7	75280 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY 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		*
90/94	.1	*	*	.2	.9	.1	.1	*	1.7	
85/89	.0	*	*	.3	3.9	9.8	2.5	.4	17.7	
80/84	.0	*	.1	.6	6.8	23.4	22.9	3.9	55.7	
75/79	.0	.0	*	.2	1.1	5.4	8.7	5.4	21.2	
70/74	.1	.0	.0	*	.4	1.2	1.4	1.1	4.1	
65/69	.0	.0	.0	*	*	.1	.2	.1	.4	
60/64	.0	.0	.0	.0	.0	*	*	.0	*	
TOTAL PCT	.0	*	.1	1.2	11.0	41.1	35.7	10.9	74689	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

TEMP F	N	NE	E	SE	S	SW	W	NW	VAR	CALM
95/99	*	*	*	*	*	*	*	*	.0	*
90/94	.3	.2	.2	.1	.1	.1	.3	.3	.0	.2
85/89	2.7	2.2	2.1	1.2	.8	.9	2.5	2.4	.0	2.0
80/84	6.0	5.2	7.0	4.2	2.9	3.4	7.7	7.5	.0	6.6
75/79	6.0	3.8	2.3	1.0	.8	1.0	3.7	2.6	.0	2.1
70/74	1.6	1.0	.2	.1	.1	.1	.1	.4	.0	.3
65/69	.2	.1	*	*	*	*	.1	*	.0	*
60/64	*	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCT	19.9	14.5	11.8	6.6	4.6	5.6	12.7	13.3	.0	11.3

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	90%	50%	10%	MIN	MEAN	TOTAL OBS
00E03	96	89	87	82	77	74	63	82.3	23934
06E09	94	86	84	81	76	73	64	80.6	23472
12E15	94	85	84	81	75	72	65	80.1	22614
18E21	97	91	89	83	77	73	62	83.0	26338
TOT	97	90	87	82	76	73	62	81.6	96359

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-54	55-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	1.4	13.9	46.8	30.1	7.9	77	19671
06E09	.0	.7	5.4	36.5	43.9	13.5	81	17892
12E15	.0	.5	4.5	32.5	46.0	16.4	82	18165
18E21	.0	2.5	18.3	46.9	25.3	6.9	75	21331
TOT	.0	1.4	9.9	40.7	31.8	9.4	79	77059

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1559-1979

AREA NO. 8 GULF OF TEHUANTEPEC
16.0N 94.0W

TABLE 17

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

AIR-SEA / TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	.0 FOG	.0 FOG
23/25	.0	.0	.0	.0	.0	.0	•	.0	.0	1	.0	•
20/22	.0	.0	.0	.0	.0	.0	.0	•	.0	4	.0	•
17/19	.0	.0	.0	.0	.0	•	•	•	•	6	.0	•
14/16	.0	.0	.0	.0	•	•	•	•	•	29	.0	•
11/13	.0	.0	•	•	•	.1	•	•	•	255	•	•
9/10	.0	.0	•	•	.1	.2	.1	•	•	656	•	•
7/8	.0	.0	•	•	.1	.2	.1	•	•	1090	•	•
6	.0	.0	•	•	.1	.2	.2	•	•	891	•	•
5	.0	.0	•	•	.1	.3	.2	•	•	1609	•	•
4	.0	.0	•	•	.2	.5	.2	•	•	2733	•	•
3	.0	.0	•	•	.2	.6	.2	•	•	2932	•	•
2	.0	.0	•	•	.2	.6	.3	•	•	5466	•	•
1	.0	.0	•	•	.2	.6	.3	•	•	5982	•	•
0	.0	.0	•	•	.2	.7	.3	•	•	11403	•	•
-1	.0	.0	•	•	.2	.7	.3	•	•	9665	•	•
-2	.0	.0	•	•	.2	.6	.3	•	•	11462	•	•
-3	.0	.0	•	•	.2	.5	.2	•	•	7	•	•
-4	.0	.0	•	•	.1	.4	.2	•	•	7	•	•
-5	.0	.0	•	•	.1	.3	.1	•	•	7	•	•
-6	.0	.0	•	•	.1	.2	.1	•	•	7	•	•
-7/-8	.0	.0	•	•	.1	.1	.1	•	•	1	•	•
-9/-10	.0	.0	•	•	.1	.1	.1	•	•	1	•	•
-11/-12	.0	.0	•	•	.1	.1	.1	•	•	1	•	•
-13/-15	.0	.0	•	•	.1	.1	.1	•	•	1	•	•
-16/-18	.0	.0	•	•	.1	.1	.1	•	•	1	•	•
TOTAL										43613		
PCT	•	.2	1.2	7.4	25.0	49.6	15.7	2.4	.2	100.0	.0	99.6

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

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

%

MOT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	1.6	.1	•	.0	.0	2.6
1-2	.5	4.0	.2	•	•	.0	4.6
3-4	.1	1.5	2.0	.6	•	.0	4.0
5-6	.0	.4	1.7	1.7	.1	.0	3.0
7	.0	.1	.4	1.0	.2	•	2.1
8-9	.0	•	.4	.6	.2	•	1.3
10-11	.0	.0	.1	.5	.2	•	.8
12	.0	.0	.1	.2	.1	•	.4
13-16	.0	.0	•	.3	.3	•	.6
17-19	.0	.0	.0	•	.1	•	.1
20-22	.0	.0	.0	•	.1	•	.1
23-25	.0	.0	.0	•	•	•	•
26-32	.0	.0	.0	.0	•	•	•
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	7.7	5.2	3.7	1.2	.1	20.4

%E

MOT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.1	•	.0	.0	.0	1.7
1-2	.3	3.2	.4	.0	.0	.0	3.9
3-4	.1	1.5	1.4	.1	.0	.0	3.1
5-6	•	.3	1.0	.2	.0	.0	1.5
7	.0	.1	.3	.1	•	•	.5
8-9	.0	•	.1	.1	•	•	.2
10-11	.0	.0	.1	.1	•	•	.2
12	.0	.0	•	•	•	•	.1
13-16	.0	.0	•	•	•	•	.1
17-19	.0	.0	.0	•	•	•	•
20-22	.0	.0	.0	•	•	•	•
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	6.2	4.0	.6	.1	•	12.0

%E

MOT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.5	.1	.0	.0	.0	.9
1-2	.2	1.6	.8	.0	.0	.0	2.6
3-4	.1	.8	1.0	.1	.0	.0	2.0
5-6	•	.2	.7	.2	.0	.0	1.1
7	.0	.1	.2	.1	•	•	.4
8-9	.0	•	.1	.1	•	•	.2
10-11	.0	.0	.1	.1	•	•	.2
12	.0	.0	•	•	•	•	.1
13-16	.0	.0	•	•	•	•	.1
17-19	.0	.0	.0	•	•	•	•
20-22	.0	.0	.0	•	•	•	•
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	3.3	2.4	.4	.0	.0	7.1

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

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.7					1.2
1-2	.2	1.4					1.9
3-4		.5					.9
5-6							
7							
8-9							
10-11							
12							
13-16							
17-19							
20-22							
23-25							
26-32							
33-40							
41-48							
49-60							
61-70							
71-86							
87+							
TOT PCT	.6	2.6	.4	.0	.0	.0	4.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	2.6					3.2
1-2	.6	3.5	.2	.0	.0	.0	4.3
3-4	.2	1.5	.2	.0	.0	.0	1.9
5-6	.0	.2	.2	.0	.0	.0	.4
7	.0	.1	.1	.0	.0	.0	.2
8-9	.0	.1	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	7.9	2.9	.0	.0	.0	12.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.6	2.6					2.6	
1-2	.6	3.5	.2	.0	.0	.0	5.2	
3-4	.2	1.5	.2	.0	.0	.0	2.1	
5-6	.0	.2	.2	.0	.0	.0	.4	
7	.0	.1	.1	.0	.0	.0	.2	
8-9	.0	.1	.0	.0	.0	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.4	7.9	2.9	.0	.0	.0	12.4	89.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT ACS
<1	16.5	9.5	.2			.0	26.3	
1-2	3.8	22.6	6.5			.0	32.8	
3-4	.7	9.3	8.9			.0	19.2	
5-6	.1	1.8	5.8			.0	7.7	
7	.0	.4	2.8			.0	3.2	
8-9	.0	.2	1.0			.0	1.2	
10-11	.0	.0	.4			.0	.4	
12	.0	.0	.1			.0	.1	
13-16	.0	.0	.1			.0	.1	
17-19	.0	.0	.0			.0	.0	
20-22	.0	.0	.0			.0	.0	
23-25	.0	.0	.0			.0	.0	
26-32	.0	.0	.0			.0	.0	
33-40	.0	.0	.0			.0	.0	
41-48	.0	.0	.0			.0	.0	
49-60	.0	.0	.0			.0	.0	
61-70	.0	.0	.0			.0	.0	
71-86	.0	.0	.0			.0	.0	
87+	.0	.0	.0			.0	.0	
								19065
TOT PC	21.2	44.9	23.5	8.0	2.3	.2	100.0	

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	PEAK HGT
<6	3.9	14.4	13.0	5.7	2.4	1.2	.6	.2	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	29622	3
6-7	.2	2.2	8.9	6.6	3.6	1.9	1.0	.5	.5	.1	*	*	*	*	.0	.0	.0	.0	.0	15376	5
8-9	.1	.8	2.3	2.5	2.0	1.2	.6	.4	.6	.2	*	*	*	*	.0	.0	.0	.0	.0	7278	6
10-11	.0	.3	.8	.9	.5	.4	.2	.2	.3	.1	*	*	*	*	.0	.0	.0	.0	.0	3247	7
12-15	.0	.0	.3	.4	.1	.2	.1	.1	.1	.1	*	*	*	*	.0	.0	.0	.0	.0	1318	7
313	.0	*	.0	.1	.1	.1	.1	.1	.1	*	*	*	*	*	.0	.0	.0	.0	.0	703	8
UNDET	8.8	1.5	1.8	1.0	.5	.3	.1	.1	.1	*	*	*	*	*	.0	.0	.0	.0	.0	4336	2
TOTAL																				64702	*
PCT	14.8	20.0	34.9	17.8	9.7	5.3	3.2	1.5	1.9	.5	.3	.2	.1	*	.0	.0	.0	.0	.0	100.0	

PERIOD (PRIMARY) 1952-197?
(OVER-ALL) 1859-19 ?

AREA CODE GULF OF TEHUANTEPEC
14.0N 94.7W

TABLE 20

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

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	*	.0	.0	.0	.0	.0	*	*	.0	3	*
95/96	.0	.0	.0	.0	*	.0	.0	.1	.0	.0	*	.0	11	*
93/94	.0	.0	*	.1	.2	.1	*	.2	.1	*	.1	.0	61	.1
91/92	*	*	*	.4	.4	.4	.3	.5	.3	.5	*	*	245	.3
89/90	.2	.2	.4	1.6	5.1	3.0	1.9	2.0	1.7	1.3	.6	.4	1?1	1.?
87/88	.7	1.?	2.8	9.6	21.5	13.?	10.6	13.9	10.7	6.1	3.8	1.6	751.	6.3
85/86	4.3	4.9	11.9	27.1	36.3	35.9	34.3	36.5	30.9	22.7	15.6	8.8	20896	23.2
83/84	13.8	16.3	26.5	30.4	23.8	20.7	35.6	30.6	33.4	30.9	22.8	18.1	23?70	26.5
81/82	25.3	27.6	29.?	19.7	9.?	13.3	13.4	12.7	17.8	23.2	22.3	23.0	17572	19.5
79/80	19.5	19.1	13.4	5.8	1.?	2.?	1.6	1.7	3.5	9.9	13.6	16.3	?577	6.4
77/78	13.0	11.7	6.5	2.5	.5	.6	.5	.5	1.1	3.7	8.3	10.0	4191	4.7
75/76	9.5	7.3	4.6	1.1	.1	.2	.3	.2	.4	1.5	5.9	8.2	2791	3.1
73/74	6.2	4.6	2.2	.5	.1	.1	*	.1	.1	.7	3.6	5.6	1690	1.9
71/72	3.7	3.4	1.2	.2	*	*	*	*	*	.3	2.6	4.2	1100	1.2
69/70	2.1	1.?	.7	.1	.?	.0	.0	.0	*	.2	1.5	2.3	600	.7
67 8	1.1	1.2	.4	.0	.0	.0	.0	.0	.0	.1	.8	1.1	316	.4
65 6	.4	.4	.1	.0	.0	.0	.0	.0	.0	*	.3	.3	110	.1
63 4	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	.2	1	**	*
61/62	*	*	*	.0	.0	.0	.0	.0	.0	.0	*	*	21	*
59/60	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
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	7017	6633	7782	7756	8444	7963	8010	7742	7577	7563	7.63	6659	90110	100.0
MEAN	79.2	79.6	81.5	83.7	85..	84.6	84.4	84.7	84.1	83.0	81.1	79.8	82.5	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1011	,012	1013	,011	1012	1013	1014	1011	1012	7060
FEB	1011	1012	1013	1012	1012	1013	1013	1011	1012	7103
MAR	1010	1011	1012	1011	1012	1012	1013	1011	1012	8016
APR	,010	1011	1012	1010	1011	1012	1012	1010	1011	7664
MAY	1009	1010	1012	1010	1011	1011	1012	1010	1011	8752
JUN	1010	011	1012	1010	1010	1011	1012	1010	1011	8212
JUL	1010	1011	1012	1010	1011	1012	1012	1010	1012	8272
AUG	1010	1011	1012	1010	1011	1011	1012	1010	1011	8069
SEP	1009	1010	1011	1009	1010	1011	1012	1009	1011	7844
OCT	1010	1011	1012	1009	1011	1011	1012	1009	1011	7680
NOV	1011	1012	1012	1010	1012	1012	1012	1010	1012	7347
DEC	1011	1012	1013	1011	1012	1012	1013	1011	1012	6796
ANN	1010	1011	1012	1010	1011	1012	1012	1010	1011	93037
OBS	21971	973	20032	1680	19744	2014	24769	1856		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	999	1007	1009	1011	1013	1014	1016	1017	1024
FEB	998	1007	1009	1011	1012	1014	1016	1017	1023
MAR	998	1006	1008	1010	1012	1013	1015	1016	1021
APR	1000	1006	1008	1010	1011	1013	1014	1016	1020
MAY	1000	1005	1007	1009	1011	1012	1014	1016	1022
JUN	997	1004	1007	1009	1011	1012	1014	1015	1022
JUL	998	1006	1008	1010	1012	1013	1014	1016	1021
AUG	998	1006	1008	1010	1011	1013	1014	1016	1020
SEP	1000	1005	1007	1009	1011	1012	1014	1015	1020
OCT	1000	1004	1007	1010	1011	1012	1014	1015	1020
NOV	1000	1005	1008	1010	1012	1013	1015	1016	1021
DEC	1001	1007	1009	1011	1012	1014	1016	1017	1022

JANUARY

AREA 0009 GUATEMALA SW COAST
11.9N 90.9W

PERIOD: (PRIMARY) 1952-1976
(OVER-ALL) 1862-1976

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA						
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.3	.0	1.0	.1	.1	98.3
NE	.0	.2	.1	.0	.0	.0	.1	.3	.3	.1	.1	.0	.5	.1	.0	98.7
E	.1	*	.0	.0	.0	.0	.1	.1	.2	.1	.0	.0	.6	.0	.0	99.0
SE	.0	.7	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.9	.0	.0	98.4
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.0	.0	98.1
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	99.4
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	.0	.0	97.1
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.8	.2	.2	98.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.2	.5	.0	.0	2.3	.0	.0	97.0
TOT PCT	*	.1	*	.0	.0	.0	*	.1	.2	.2	.1	.0	.9	.1	.1	98.5
TOT OBS:	6921															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA						
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00E03	.1	.0	.1	.0	.0	.0	.0	.1	.1	.0	.1	.0	1.0	.0	.0	98.8
06E09	.0	.1	.1	.0	.0	.0	.0	.2	.1	.5	.2	.0	.9	.1	.1	98.2
12E15	.0	.1	.1	.0	.0	.0	.1	.2	.4	.4	.1	.0	1.1	.1	.1	97.7
18E21	.1	.1	.0	.0	.0	.0	.0	.2	.2	.0	.1	.0	.6	.1	.1	98.9
TOT PCT	*	.1	*	.0	.0	.0	*	.2	.2	.2	.1	.0	.9	.1	.1	98.4
TOT OBS:	7126															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	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	12.3	2.5	.1	*	.0		18.1	7.2	13.1	10.9	18.9	18.3	25.4	24.6	17.4	17.9
NE	2.5	15.6	10.2	1.4	.1	.0		29.7	10.6	28.5	29.3	33.9	31.4	30.3	36.2	35.0	38.7
E	1.7	12.0	9.5	1.1	.1	.0		24.3	11.0	25.9	26.7	19.9	22.2	22.0	20.2	28.3	23.9
SE	.7	2.8	.7	*	*	.0		4.1	7.2	7.2	4.1	4.8	2.4	2.3	3.2	2.8	2.8
S	.3	.7	.1	*	*	.0		1.1	6.2	2.0	.9	1.3	.8	.5	.0	.9	2.0
SW	.5	.8	*	.0	.0	.0		1.3	5.3	2.7	2.1	1.3	.0	.4	.0	1.0	1.2
W	.9	2.5	.5	.0	.0	.0		3.9	6.5	6.8	7.2	4.4	3.3	2.2	1.2	2.2	5.4
NW	1.6	6.2	1.1	*	*	.0		8.9	6.8	8.0	7.1	11.6	8.2	9.9	9.9	7.3	4.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.5						7607	8.5	8.4	5.9	11.7	15.9	13.3	8.2	4.7	5.0	3.9
TOT OBS	1506	4025	1858	201	17	0		100.0		1653	1345	1687	180	1554	214	1969	205
TOT PCT	19.8	52.9	24.4	2.6	.2	.0				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	9.8	7.7	.6	.1	.0		18.1	7.2	12.9	18.8	23.5	17.5
NE	9.1	15.9	4.4	.3	*		29.7	10.6	28.6	22.8	31.0	35.4
E	6.5	15.6	3.9	.2	.0		24.3	11.0	25.9	20.2	22.6	27.9
SE	2.3	1.7	.1	*	.0		4.1	7.2	6.9	4.6	2.4	2.8
S	.8	.2	*	*	.0		1.1	6.2	1.9	1.2	.4	1.0
SW	.9	.3	*	*	.0		1.3	5.3	2.6	1.2	.2	1.0
W	2.3	1.5	.1	*	.0		3.9	6.5	6.9	4.3	2.1	2.5
NW	5.1	3.2	.1	*	.0		8.9	6.8	7.9	11.2	9.9	7.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	8.5						8.5	.0	6.3	15.6	7.7	4.9
TOT OBS	3453	3397	704	51	2	7607		8.4	1798	1867	1768	2174
TOT PCT	45.4	44.7	9.3	.7	*		100.0		100.0	100.0	100.0	100.0

JANUARY

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1862-1979

APE: 0009 GUATEMALA SW COAST
11.9N 90.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00E03	6.3	10.0	57.6	24.7	1.3	.0	.0	8.3	100.0	1798
06E09	15.6	14.1	53.5	15.0	1.6	.2	.0	6.7	100.0	1867
12E15	7.7	11.7	54.6	23.5	2.4	.0	.0	8.3	100.0	1768
18E21	4.9	9.5	47.2	33.0	4.8	.6	.0	10.1	100.0	2174
TOT	650	856	4025	1858	201	17	0	8.4		7607
PCT	8.5	11.3	52.9	24.4	2.6	.2	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	13.7	2.3	1.7	.3		1.6
NE	22.2	4.1	2.4	.3		1.5
E	19.3	3.4	2.0	.3		1.4
SE	3.4	.5	.4	*		1.5
S	.9	.1	.1	*		1.3
SW	1.0	.1	.2	*		1.6
W	3.0	.6	.2	.1		1.4
NW	6.5	1.4	.8	.1		1.6
VAR	.0	.0	.0	.0		.0
CALM	6.7	1.0	.7	.2		1.3
TOT OBS	4495	789	500	77	5861	1.5
TOT PCT	76.7	13.5	8.5	1.3	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	*	.1	.3	.2	.1	*	*	.1	17.2	
NE	*	.0	.1	.7	.4	.3	.1	*	.1	*	27.6	
E	*	.0	*	.3	.4	.3	.1	.0	*	*	23.8	
SE	.0	.0	*	*	.1	*	*	*	.0	*	4.1	
S	.0	.0	.0	*	*	.0	.0	.0	.0	.0	1.1	
SW	.0	.0	.0	.0	.1	.0	.0	*	.0	.0	1.2	
W	*	.0	.0	.0	*	*	*	*	*	*	3.7	
NW	*	.0	*	.1	.1	.1	.1	*	*	*	4.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	*	*	.1	.2	.1	.0	*	*	.1	4.1	
TOT OBS	4	1	8	47	99	57	25	9	9	15	5587	5861
TOT PCT	.1	*	.1	.8	1.7	1.0	.4	.2	.2	.3	95.3	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 >5CYD	= OR >0
= OR >6500	.3	.4	.4	.4	.4	.4	.4	.4
= OR >5000	.5	.5	.5	.5	.5	.5	.5	.5
= OR >3500	.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0
= OR >2000	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9
= OR >1000	3.3	3.6	3.6	3.6	3.6	3.6	3.6	3.6
= OR >600	4.1	4.4	4.4	4.4	4.4	4.4	4.4	4.4
= OR >300	4.2	4.5	4.5	4.5	4.5	4.5	4.5	4.5
= OR >150	4.2	4.5	4.6	4.6	4.6	4.6	4.6	4.6
= OR > 0	4.3	4.6	4.6	4.6	4.6	4.6	4.6	4.6
TOTAL	258	276	278	278	278	278	278	278

TOTAL NUMBER OF OBS 6013 PCT FREQ NH <5/8: 95.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
48.7	26.1	10.5	6.5	3.5	1.8	1.4	.8	.7 *	6262

JANUARY

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1862-1979

AREA 0009 GUATEMALA SW COAST
11.9N 90.9W

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<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	.1	.1	*	.0	.0	*	.0	*	.3	
	TOT %	*	.1	.1	.1	*	.0	.0	*	.0	*	.3	
5<10	PCP	.0	*	*	.0	.0	.0	.0	.0	.0	.0	*	
	NO PCP	.5	.7	.5	.1	*	*	.1	.3	.0	.3	2.4	
	TOT %	.5	.7	.5	.1	*	*	.1	.3	.0	.3	2.4	
10+	PCP	*	.1	*	*	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	18.0	28.9	23.8	4.0	1.1	1.2	3.5	6.7	.0	7.9	97.2	
	TOT %	18.0	28.9	23.8	4.0	1.1	1.2	3.5	6.7	.0	7.9	97.3	
	TOT OBS												6904
	TOT PCT	18.5	29.7	24.4	4.2	1.1	1.2	3.6	6.8	.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		*	
	11-21	.0	*	*	.0	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	*	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	.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		*	
	11-21	.0	.0	.0	.0	.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	*	
2<5	0-3	.0	.0	*	*	.0	.0	.0	.0	.0	*	.1	
	4-10	*	.1	.1	*	.0	.0	.0	*	.0		.2	
	11-21	*	*	*	*	.0	.0	.0	.0	.0		*	
	22+	.0	.0	*	*	*	.0	.0	.0	.0		*	
	TOT %	.1	.1	.1	.1	*	.0	.0	*	.0	*	.4	
5<10	0-3	.1	.1	.1	*	*	*	*	*	.0	.3	.7	
	4-10	.3	.3	.2	*	*	*	*	.2	.0		1.2	
	11-21	.1	.2	.2	*	.0	.0	.0	.1	.0		.5	
	22+	*	*	*	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.5	.7	.5	.1	*	*	.1	.3	.0	.3	2.4	
10+	0-3	3.0	2.2	1.5	.7	.3	.4	.7	1.6	.0	8.2	18.8	
	4-10	12.1	15.0	11.8	2.7	.7	.8	2.4	6.0	.0		51.4	
	11-21	2.4	10.0	9.4	.6	.1	*	.5	1.0	.0		24.1	
	22+	.2	1.5	1.2	*	*	.0	.0	*	.0		2.6	
	TOT %	17.7	28.8	23.9	4.0	1.1	1.3	3.6	8.6	.0	8.2	97.2	
	TOT OBS												7346
	TOT PCT	18.2	29.6	24.5	4.1	1.1	1.3	3.7	8.9	.0	8.4	100.0	

JANUARY

PERIOD: (PRIMARY) 1952-1976
(OVER-ALL) 1952-1976

AREA 0009 GUATEMALA SW COAST
13.9N 90.9W

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	MH <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	.0	.3	.8	.5	.7	.1	.0	.2	2.5	97.5	1587
06E09	.1	.0	.1	.5	1.4	.9	.1	.2	.2	.3	3.8	96.2	1516
12E15	.1	.1	.3	1.6	2.6	1.0	.5	.2	.5	.8	7.2	92.8	1477
18E21	.1	.0	.2	.6	1.6	1.3	.4	.1	.1	.1	4.6	95.4	1666
TOT	4	1	8	49	100	58	26	9	9	15	279	5747	6246
PCT	1	*	.1	.8	1.6	.9	.4	.1	.1	.2	4.5	95.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.0	.0	.1	.5	1.6	97.8	1606
06E09	.1	.0	.1	.3	3.1	96.4	1675
12E15	.1	.0	.1	.4	3.7	95.7	1779
18E21	.1	.0	.0	.1	2.0	97.8	2091
TOT	4	0	4	26	195	7324	7553
PCT	.1	.0	.1	.3	2.6	97.0	100.0

TABLE 12

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

HOUR (GMT)	<1SO <5OYDS	<5OO <1	<1OOO <5	1OOO+ &NDS+	MH <5/8 AND 5+	TOTAL OBS
00E03	.0	.0	.4	2.3	97.7	1534
06E09	.1	.1	1.0	3.1	95.9	1466
12E15	.1	.5	2.3	5.4	92.6	1418
18E21	.1	.3	1.3	3.6	95.1	1595
TOT	4	13	73	215	5725	6013
PCT	.1	.2	1.2	3.6	95.2	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	4	.1
90/94	.0	.0	*	.2	.3	.1	.1	.0	40	.7
85/89	.0	.0	*	.6	2.4	2.3	.3	.1	340	5.7
80/84	.0	.0	*	1.1	11.3	30.4	14.0	2.4	3501	59.2
75/79	.0	.0	.0	.2	1.9	9.9	15.2	5.5	1934	32.7
70/74	.0	.0	.0	.0	.1	.2	.5	.9	94	1.6
65/69	.0	.0	.0	.0	.0	.0	*	*	3	.1
TOTAL	0	0	4	124	943	2532	1784	523	5916	100.0
PCT	.0	.0	.1	2.1	15.9	42.8	30.2	8.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	*	*	.0	.0	.0	.0	*	.0	.0
	.1	.3	.2	*	.0	.0	*	*	.0	.1
	1.2	1.3	1.5	.3	.1	.1	.2	.6	.0	.4
	9.6	16.6	15.7	2.7	.8	1.1	2.7	5.3	.0	4.6
	6.7	10.8	6.6	1.1	.2	.2	.9	2.8	.0	3.2
	.4	.6	.3	*	.0	.0	*	.1	.0	.1
	*	*	.0	.0	.0	.0	.0	*	.0	.0
	18.0	29.7	24.5	4.1	1.2	1.4	3.9	8.8	.0	8.4

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	95	88	85	81	76	74	70	80.8	1840
06E09	86	84	82	80	75	72	69	79.3	1939
12E15	87	83	82	79	75	72	69	79.1	1806
18E21	95	90	87	82	77	75	68	82.1	2183
TOT	95	89	85	80	76	73	68	80.4	7768

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	2.1	23.0	46.6	22.3	5.9	76	1523
06E09	.0	.4	5.0	42.4	37.0	12.1	80	1501
12E15	.0	.7	7.5	38.0	39.3	14.5	81	1458
18E21	.0	5.2	23.6	43.6	23.4	4.2	74	1605
TOT	0	132	960	2630	1944	551	78	6087

PERIOD: (PRIMARY) 1952-1976
(OVER-ALL) 1862-1979

AREA 0009 GUATEMALA SW COAST
11.9N 90.9W

TABLE 17

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

AIR-SEA TMP DIF	65 63	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	% FOG	NO FOG
14/16	.0	.0	.0	.0	*	*	.1	.1	12	.0	.2
11/13	.0	.0	.0	*	.2	.1	.2	.1	42	.0	.6
9/10	.0	.0	*	.1	.2	.3	.2	.0	50	.0	.8
7/8	.0	.0	*	.2	.5	.7	.3	.0	109	.0	1.7
6	.0	.0	*	.4	.5	.5	.1	.0	95	.0	1.5
5	.0	.0	.1	.5	1.0	.8	.1	.0	156	.0	2.4
4	.0	.0	.1	1.1	2.3	.8	*	.0	284	.0	4.4
3	.0	.0	.2	1.2	2.0	.7	*	.0	270	.0	4.1
2	.0	*	.4	2.7	4.7	.6	*	.0	558	*	8.5
1	*	*	.4	3.6	4.6	.4	.0	.0	592	*	9.0
0	.0	*	.8	7.4	8.3	.3	.0	.0	1100	*	16.9
-1	.0	*	.7	6.5	6.0	.1	.0	.0	868	*	13.3
-2	.0	.1	.8	9.1	4.6	.0	.0	.0	947	.0	14.5
-3	.0	*	.4	5.2	2.5	*	.0	.0	531	.0	8.1
-4	*	.1	.6	4.7	1.3	.0	.0	.0	439	.0	6.7
-5	.0	*	.4	2.2	.7	.0	.0	.0	212	.0	3.3
-6	.0	.0	.4	1.3	.1	.0	.0	.0	119	.0	1.8
-7/-8	.0	.1	.4	.9	.1	.0	.0	.0	94	.0	1.4
-9/-10	.0	.1	.1	.3	*	.0	.0	.0	34	.0	.5
-11/-13	*	.0	*	*	.0	.0	.0	.0	4	.0	.1
TOTAL	3	20	386	3091	2586	351	60	9	6516	8	6508
PCT	*	.5	5.9	47.4	39.7	5.4	.9	.1	100.0	.1	99.9

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.6	3.5	.0	.0	.0	.0	5.0
1-2	1.1	7.1	.5	.0	.0	.0	8.7
3-4	.2	2.9	1.4	.0	.0	.0	4.4
5-6	.0	.2	.3	.0	.0	.0	.5
7	.0	.1	.1	.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	.1	.0	.0	.0	.1
13-16	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.8	13.7	2.5	.0	.0	.0	18.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	2.6	.0	.0	.0	.0	3.7
1-2	.4	9.0	2.5	.0	.0	.0	11.9
3-4	.3	4.9	5.0	.2	.0	.0	10.4
5-6	.0	.9	3.5	.3	.0	.0	4.6
7	.0	.3	.8	.5	*	.0	1.6
8-9	.0	.1	.2	.5	.0	.0	.8
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	17.9	12.1	1.7	*	.0	33.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	2.4	.0	.0	.0	.0	2.7
1-2	.5	5.8	1.4	.0	.0	.0	7.9
3-4	.1	3.4	3.1	.1	.0	.0	6.8
5-6	.0	.5	3.0	.4	.0	.0	3.9
7	.0	.2	.8	.3	.1	.0	1.3
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.1	.0	.1
12	.0	.0	.1	.1	.0	.0	.2
13-16	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	12.3	4.9	1.0	.1	.0	23.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.7	.0	.0	.0	.0	1.1
1-2	.3	.9	.1	.0	.0	.0	1.3
3-4	*	.3	.1	.0	.0	.0	.5
5-6	.0	.1	.1	.0	.0	.0	.1
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	2.0	.5	.0	.0	.0	3.2

PERIOD: (OVER-ALL) 1963-1979 JANUARY AREA 0009 GUATEMALA Sw COAST

TABLE 18 (CONT) 11.5N 90.5W

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

S

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

SW

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

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.6	.0	.0	.0	.0	1.0
1-2	.1	.7	.3	.0	.0	.0	1.1
3-4	.1	.6	.1	.0	.0	.0	.8
5-6	.7	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	1.9	.4	.0	.0	.0	2.9

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.8	1.7	.1	.0	.0	.0	2.5	
1-2	.5	3.1	*	.0	.0	.0	3.6	
3-4	.1	1.1	.8	.0	.0	.0	2.0	
5-6	.0	.2	.1	.0	.0	.0	.4	
7	.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	*	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.3	6.1	1.3	.0	.0	.0	8.7	92.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	12.6	12.4	.1	.0	.0	.0	25.2	
1-2	3.9	26.9	4.9	.0	.0	.0	35.6	
3-4	.7	12.9	10.4	.4	.0	.0	24.4	
5-6	.1	1.9	6.8	.7	.0	.0	9.4	
7	.0	.6	1.9	.8	.1	.0	3.4	
8-9	.0	.1	.6	.5	.0	.0	1.1	
10-11	.0	.0	.1	.0	.1	.0	.1	
12	.0	.0	.1	.2	.0	.0	.4	
13-16	.0	.0	.2	.0	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	17.4	54.7	25.2	2.6	.1	.0	100.0	1400

PERIOD: (OVER-ALL) 1949-1979 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	6.7	17.5	16.7	7.4	2.7	1.0	.4	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2754	3
6-7	.2	2.2	6.8	6.7	3.1	1.2	.6	.3	.2	.1	*	*	.0	.0	.0	.0	.0	.0	.0	1121	5
8-9	.1	.8	1.7	1.9	1.8	.7	.3	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	401	6
10-11	.0	.8	.6	.6	.6	.2	.2	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	157	5
12-13	.0	.0	.6	.5	.3	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	84	6
>13	.0	.0	.0	.2	.2	.1	.1	*	*	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	41	9
INDET	8.0	1.6	1.6	1.0	.4	.2	*	.1	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	681	2
TOTAL	785	1201	1461	968	472	180	85	39	25	17	5	1	0	0	0	0	0	0	0	5239	*
PCT	15.0	22.9	27.9	18.5	9.0	3.4	1.6	.7	.5	.3	.1	*	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1871-1979

AREA 0009 GUATEMALA SW COAST
12.0N 91.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.1	*	.0	.0	.0	.0	.0	.1	.0	.1	.1	.0	.9	.1		98.8
NE	*	.2	*	.0	.0	.0	.2	.4	.2	.1	*	.0	.8	.0		98.4
E	.2	.1	.1	.0	.0	.0	.0	.3	.2	.1	.1	.0	.6	.0		98.7
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	1.0	.0		98.9
S	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	1.2	.0		98.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	1.2	.0		98.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	2.6	.0		96.8
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	1.5	.0		98.4
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	.1	.7	.0	4.9	.0		94.2
TOT PCT	.1	.1	*	.0	.0	.0	*	.2	.1	.1	.1	.0	1.3	*		98.1
TOT OBS:	6958															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.0	.0	.1	.0	.0	.0	.0	.1	.0	.1	.1	.0	.9	.1		98.6
06&09	.0	.1	.0	.0	.0	.0	.1	.1	.0	.3	.1	.0	1.6	.0		97.9
12&15	.1	.2	.0	.0	.0	.0	.1	.3	.3	.2	.2	.0	1.6	.0		97.4
18&21	.2	.1	.1	.0	.0	.0	.1	.3	.2	.1	.1	.0	1.1	.0		98.3
TOT PCT	.1	.1	*	.0	.0	.0	*	.2	.1	.1	.1	.0	1.3	*		98.1
TOT OBS:	7160															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)						
WND DIR	0-3	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	10.5	2.0	.1	.0	.0		15.6	6.9	10.3	10.9	15.1	17.2	20.7	19.9	16.5	14.8
NE	2.1	13.3	7.9	1.0	*	.0		24.3	10.2	20.9	27.0	19.1	21.2	25.0	33.7	30.0	27.9
E	2.4	12.3	10.5	1.1	.1	.0		26.3	10.9	29.5	18.3	20.5	27.1	25.5	22.0	30.1	27.6
SE	.4	2.6	.9	*	.0	.0		4.7	7.6	6.1	4.7	5.2	3.2	2.6	2.8	3.0	6.7
S	.5	1.3	.2	*	.0	.0		2.1	6.1	3.6	3.0	2.2	.6	.7	.7	1.9	2.1
SW	.5	1.3	.1	.0	.0	.0		1.9	5.9	4.4	5.3	1.7	.6	.4	1.2	1.1	3.7
W	1.2	3.1	.3	*	.0	.0		4.7	6.2	7.8	5.5	6.2	1.2	2.5	3.3	2.8	4.0
NW	2.1	6.7	1.2	*	*	.0		10.1	6.7	8.0	9.2	11.4	10.2	11.6	10.2	9.1	8.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.3							10.3	.0	7.6	16.0	18.1	10.7	10.8	6.8	5.5	4.9
TOT OBS	1736	3693	1763	171	9	0	7572		8.0	1692	150	1666	166	1572	222	1910	264
TOT PCT	22.9	51.*	23.3	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	9.1	6.1	.4	*	.0		15.6	6.9	.0.3	15.3	20.5	16.3
NE	8.0	12.6	3.6	.1	.0		24.3	10.2	21.4	19.3	26.0	29.8
E	7.5	14.1	4.5	.2	.0		26.3	10.9	28.5	21.1	25.1	29.8
SE	2.4	2.1	.2	.C	.0		4.7	7.6	7.8	5.0	2.6	3.4
S	1.4	.6	.1	*	.C		2.1	6.1	3.5	2.0	.7	2.0
SW	1.3	.6	*	.C	.0		1.9	5.9	4.5	1.6	.5	1.3
W	2.9	1.8	*	*	.0		4.7	6.2	7.6	5.8	2.6	2.9
NW	6.1	3.7	.2	*	.C		10.1	6.7	8.1	11.7	11.6	9.0
VAR	.0	.0	.0	.0	.C		.0	.0	.0	.0	.1	.0
CALM	10.3						10.3	.0	8.2	18.2	10.3	5.4
TOT OBS	3712	3151	679	30	0	7572		8.0	1832	1832	1794	2114
TOT PCT	49.0	41.6	9.0	.4	.0		100.0		100.0	100.0	100.0	100.0

FEBRUARY

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1871-1979

AREA 0009 GUATEMALA SW COAST
12.0N 91.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TO AL OBS
00603	6.2	22.0	55.6	23.0	1.	.6	.6	7.9	100.0	1852
06609	16.2	13.5	53.4	14.1	.7	.1	.0	6.2	100.0	1932
12615	10.3	13.8	52.0	21.5	2.3	.2	.0	7.8	100.0	1794
18621	5.4	11.3	45.6	33.0	4.5	.2	.0	9.8	100.0	2114
TOT	783	993	3893	1763	171	9	0	4.0		7577
PCT	10.3	12.6	51.4	23.3	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	11.1	2.5	1.4	.3		1.7
NE	17.2	3.5	2.7	.5		1.7
E	20.1	4.4	2.3	.3		1.5
SE	3.8	.5	.4	.1		1.4
S	1.5	.3	.2	*		1.5
SW	1.3	.3	.2	.1		1.8
W	3.5	.7	.5	.1		1.6
NW	7.2	1.7	1.0	.2		1.8
VAR	.0	.0	.0	.0		.0
CALM	8.2	1.0	.4	.1		1.2
TOT OBS	4326	993	546	91	5846	1.6
TOT PCT	74.0	17.1	9.3	1.6	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	300 499	500 999	1000 1999	2000 2999	3000 4999	5000 6499	6500 7999	8000+	NM <5/8 PAY HGT	TOTAL OBS
N	*	.0	.0	.1	.2	.2	.1	.0	*	.1	14.7	
NE	*	*	.1	.2	.5	.4	.1	*	*	*	22.6	
E	.1	*	.0	.2	.4	.2	.2	*	*	*	25.5	
SE	.0	.0	.0	.1	*	.1	*	.0	*	*	4.5	
S	.0	.0	.0	*	*	*	*	*	.0	.0	1.9	
SW	*	.0	*	*	*	*	*	.0	.0	*	1.7	
W	.0	.0	.0	*	.1	.1	*	.0	.0	*	4.4	
NW	*	.0	.0	.1	.2	.1	*	.1	.0	*	9.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	*	.1	.2	.1	.1	*	*	.1	9.6	
TOT OBS	9	1	5	55	99	72	36	9	1	14	5590	5846
TOT PCT	.1	*	.1	.9	1.7	1.2	.6	.2	.1	.2	94.8	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) : OR >10	: OR >5	: OR >2	: OR >1	: OR >1/2	: OR >1/4	: OR >5DYD	: OR >0
: OR >6500	.3	.3	.3	.3	.3	.3	.3	.3
: OR >5000	.4	.5	.5	.5	.5	.5	.5	.5
: OR >3500	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
: OR >2000	2.1	2.3	2.3	2.3	2.3	2.3	2.3	2.3
: OR >1000	3.6	3.9	4.0	4.0	4.0	4.0	4.0	4.0
: OR >600	4.5	4.8	4.9	4.9	4.9	4.9	4.9	4.9
: OR >300	4.5	4.9	5.0	5.0	5.0	5.0	5.0	5.0
: OR >150	4.6	4.9	5.0	5.0	5.0	5.0	5.0	5.0
: OR > 0	4.7	5.1	5.2	5.2	5.2	5.2	5.2	5.2
TOTAL	241	305	309	310	310	310	311	311

TOTAL NUMBER OF OBS 5994 PCT FREQ NM <5/8: 94.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
48.6	22.9	12.2	7.4	3.7	2.0	1.5	1.0	.7	.1	6286

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1973-1979

AREA CODE GUATEMALA SW COAST
12.0N 91.0W

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.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	*	
	TOT %	*	.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	*	
	NO PCP	*	.1	*	*	*	.0	.0	*	.0	*	.2	
	TOT %	*	.1	.1	*	*	.0	.0	*	.0	*	.2	
5<10	PCP	*	*	*	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.5	.4	.9	.2	.1	.1	.2	.4	.0	.5	3.6	
	TOT %	.5	.4	.8	.2	.1	.1	.2	.4	.0	.5	3.7	
10+	PCP	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	15.0	23.4	26.1	4.5	1.9	1.8	4.4	9.6	.0	9.2	96.0	
	TOT %	15.0	23.5	26.2	4.5	1.9	1.8	4.4	9.6	.0	9.2	96.1	
	TOT OBS												6937
	TOT PCT	15.4	24.4	27.0	4.7	2.0	1.8	4.6	10.1	.0	9.7	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		*	
	11-21	.0	*	*	.0	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	*	.0	.0	.0	.0	.0	.0	.0	*	
1/2<1	0-3				.0	.0	.0	.0	.0	.0	.0	.0	
	4-10			.0	.0	.0	.0	.0	*	.0		*	
	11-21			.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0		.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*		.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		*	
	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	*	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	*	*	*	*	*	.0	.0	.1	.0		.2	
	11-21	.0	*	*	.0	0	.0	.0	.0	.0		.1	
	22+	.0	*	*	.0	.0	.0	.0	.0	.0		*	
	TOT %	*	.1	.1	*	*	.0	.0	.1	.0	*	.3	
5<10	0-3	.1	*	.1	.1	*	*	*	*	.0	.5	.9	
	4-10	.3	.1	.2	.1	*	*	.1	.2	.0		1.4	
	11-24	.1	.4	.4	*	.0	*	*	.1	.0		1.0	
	22+	.0	.1	.1	.0	*	.0	.0	*	.0		.1	
	TOT %	.5	.6	.6	.2	.1	.1	.2	.3	.0	.5	3.6	
10+	0-3	2.9	2.0	2.3	.7	.5	.5	1.1	1.7	.0	4.7	71.6	
	4-10	10.1	18.6	21.1	2.1	1.3	1.2	3.1	6.1	.0		45.7	
	11-21	2.1	3.1	3.0	.4	.2	.1	.3	1.2	.0		10.5	
	22+	.1	.5	1.1	*	.0	.0	*	*	.0		2.2	
	TOT %	15.1	23.5	26.7	4.5	1.9	1.8	4.4	9.5	.0	9.7	96.0	
	TOT OBS												7365
	TOT PCT	5.6	24.4	28.7	4.7	2.1	1.9	4.7	9.9	.0	10.2	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1955-1979
(OVER-ALL) 1471-1979

AREA 0009 GUATEMALA S. COAST
12.0N 91.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,MM 34/83) AND OCCURRENCE OF MM CB/B BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	MM CB/B ANY HGT	TOTAL OBS
00E03	.1	.0	.0	.4	.8	.9	.2	.1	.0	.1	2.7	97.3	1617
06E09	.3	.0	.1	.7	1.0	.5	.5	.2	.1	.1	3.6	96.4	1513
12E15	.0	.1	.1	1.5	3.0	2.0	.6	.1	.3	.5	8.3	91.7	1503
18E21	.2	.0	.1	1.0	1.7	1.3	.8	.2	.1	.2	5.6	94.4	1638
TOT	9	1	5	56	101	75	37	9	7	14	314	5957	6271
PCT	.1	*	.1	.9	1.6	1.2	.6	.1	.1	.2	5.0	95.0	100.0

TABLE 11

PERCENT FREQUENCY <5KT (KMH) BY HOUR

HOUR (GMT)	<1/2	<2/3	1<2	2<5	5<10	10+	TOTAL <5
00E03	.0	.1	.7	.3	2.2	97.5	1617
06E09	.1	.1	.1	.5	4.7	94.5	1634
12E15	.1	.0	.1	.3	4.5	95.1	1822
18E21	.0	.0	.0	.1	2.9	96.9	2060
TOT	3	2	7	23	270	7259	7569
PCT	*	*	*	.3	3.6	96.0	100.0

TABLE 12

[illegible] PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,MM 34/83) AND/OR [illegible] HOUR

[illegible] HOUR	[illegible] <1/2	[illegible] <2/3	[illegible] <1	[illegible] 1<2	1000+ 2000+	MM CB/B ANY HGT	TOTAL OBS
00E03	.1	.1	.5	2.7	97.2		1553
06E09	.7	.6	1.9	2.9	95.7		1454
12E15	.1	.2	2.0	8.7	91.3		1432
18E21	.3	.4	1.5	4.4	94.1		1554
TOT	10	19	76	235	5673	5994	
PCT	.2	.3	1.4	3.9	94.6	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	.1	.1	.4	.1	*	.0	41	.7
85/89	.0	.*	.1	.5	2.5	2.6	.5	.2	382	6.5
80/84	.0	.0	.1	1.7	11.4	30.5	14.5	2.5	3537	60.2
75/79	.0	.0	*	.2	1.7	10.7	13.2	5.1	1617	27.9
70/74	.0	.0	.0	.0	*	.2	.8	.7	97	1.7
TOTAL	0	0	12	124	945	2597	1708	508	5874	100.0
PCT	.0	.*	.2	2.1	16.1	44.0	29.0	8.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

%	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.1	.3	.1	.0	*	*	.1	.0	*
2.1	2.3	2.7	.4	.2	.1	.4	.7	.0	.4
9.0	12.9	16.6	3.1	1.5	1.4	3.5	6.3	.0	5.9
5.2	8.6	8.1	.9	.3	.2	.9	2.7	.0	3.7
.2	.6	.3	*	*	*	.0	*	.0	.2
15.6	24.2	27.1	4.5	2.0	1.8	4.8	9.8	.0	10.1

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	93	88	87	81	77	74	68	81.0	1859
06E09	88	84	82	80	76	73	69	79.5	1845
12E15	89	84	82	79	75	73	70	79.2	1832
18E21	94	90	86	82	77	75	70	82.3	7121
TOT	94	89	86	80	76	73	68	80.6	7697

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	2.5	22.5	47.6	21.5	5.9	75	1537
06E09	.0	1.0	8.4	43.1	36.1	11.4	80	1470
12E15	.0	.9	6.9	40.1	36.3	15.8	81	1453
18E21	.0	4.5	29.4	44.9	21.9	4.1	74	1584
TOT	0	139	957	2659	1765	524	77	6044

PERIOD: (PRIMARY) 1953-1976
(OVER-ALL) 1971-1976

AREA 0009 GUATEMALA SW COAST
12.0N 91.0W

TABLE 17

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

AIR-SEA / TMP DIF	65 / 72	73 / 76	77 / 80	81 / 84	85 / 88	89 / 92	>92	TOT	% FOG	NO FOG
17/19	.0	.0	.0	.0	.0	*	.0	3	.0	*
14/16	.0	.0	.0	.1	*	*	*	9	.0	.1
11/13	.0	.0	*	.1	.1	.1	*	30	.0	.5
9/10	.0	.0	.1	.2	.2	.2	*	54	.0	.8
7/8	.0	*	.4	.7	.7	.3	*	140	.0	2.1
6	.0	*	.1	.4	.5	.1	*	85	.0	1.4
5	.0	.1	.4	1.0	.3	.2	.0	167	.0	2.6
4	*	.2	.6	2.1	1.2	*	.0	290	.0	4.4
3	*	.3	1.0	2.1	1.0	*	.0	289	.0	4.4
2	*	.4	2.3	5.1	.6	.0	.0	551	.0	8.6
1	.0	.6	3.1	5.3	.5	.0	.0	632	.0	9.7
0	*	.7	6.1	9.4	.5	.0	.0	1115	.0	17.1
-1	*	.6	6.6	6.4	.2	.0	.0	896	.0	13.7
-2	*	.6	7.7	4.7	*	.0	.0	652	.0	13.0
-3	*	.4	5.6	3.5	*	.0	.0	565	.1	8.4
-4	*	.6	4.6	1.6	*	.0	.0	347	.1	5.9
-5	*	.5	2.6	.5	.0	.0	.0	224	*	3.3
-6	*	.2	1.4	.2	*	.0	.0	122	*	1.8
-7/-8	.0	.4	.6	.1	*	.0	.0	46	.0	1.3
-9/-10	*	.2	.2	*	.0	.0	.0	26	.0	.4
-11/-12	*	*	.0	.0	.0	.0	.0	3	.0	.1
-13/-16	*	*	.0	.0	.0	.0	.0	2	.0	*
TOTAL	21	760	2937	2740	435	70	7	6520	%	6512
PCT	.3	11.5	44.7	42.0	6.2	1.1	.1	100.0	.1	99.9

PERIOD: (OVER-ALL) 1953-1976

TABLE 1e

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

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	1.4	1.8	.3				3.5		2.6	*	.0	.0	.0	3.6
1-2	1.6	5.6	.7				6.9		7.0	1.6	.0	.0	.0	8.7
3-4		2.6	.4				3.0		3.2	3.2	.0	.0	.0	6.7
5-6							1.1			2.8	.0	.0	.0	3.8
7							.2			1.7	*	.0	.0	2.2
8-9										.5	*	.0	.0	1.0
10-11														
12														
13-16														
17-19														
20-22														
23-25														
26-32														
33-40														
41-48														
49-60														
61-70														
71-84														
85+														
TOT PCT	3.0	10.2	2.4	.0	.0	.0	14.7	1.7	13.5	10.3	1.7	*	.0	27.3

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	.6	2.0	2.4				5.0	.5	1.5	.0	.0	.0	.0	1.9
1-2	1.3	6.0	2.1				8.2		1.5	.0	.0	.0	.0	2.0
3-4		3.0	2.0				4.9		.7	.5	.0	.0	.0	1.2
5-6			1.5				2.0			.2	.0	.0	.0	.2
7			1.5				2.2			*	*	.0	.0	*
8-9														
10-11														
12														
13-16														
17-19														
20-22														
23-25														
26-32														
33-40														
41-48														
49-60														
61-70														
71-84														
85+														
TOT PCT	1.9	12.0	10.1	2.0	.1	.0	28.2	1.0	2.6	.9	*	.0	.0	4.4

PERIOD: (OVER-ALL) 1949-1970

FEATURE

TABLE 18 (CONT)

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

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

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1								
1-2								
3-4								
5-6								
7								
8-9								
10-11								
12								
13-16								
17-19								
20-22								
23-25								
26-32								
33-40								
41-48								
49-60								
61-70								
71-86								
87+								
TOT PCT	1.1	3.0	.2	.0	.0	.0	4.3	91.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	YCT OBS
<1	24.3	6.7	.4	.1	.0	.0	24.5	
1-2	3.5	25.4	5.4	.0			34.9	
3-4	.4	17.0	4.9				22.2	
5-6	.0	2.8	6.5				10.3	
7		.5	3.2				4.6	
8-9		.1	1.2				2.1	
10-11			.4				1.0	
12			.1				.1	
13-16								
17-19								
20-22								
23-25								
26-32								
33-40								
41-48								
49-60								
61-70								
71-86								
87+								
								1407
TOT PCT	28.3	52.1	22.1	4.0	.1	.0	100.0	

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	PEAK HGT
<6	7.2	18.6	15.7	5.6	2.9	1.1	.2	.	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2666	3
6-7	.1	2.3	6.2	6.6	3.1	1.2	.4	.2	.1	.	.0	.0	.0	.0	.0	.0	.0	.0	.0	1066	5
8-9	.	.6	1.9	2.0	1.5	.5	.4	.2	.1	.	.0	.0	.0	.0	.0	.0	.0	.0	.0	378	6
10-11	.0	.2	.9	.6	.5	.2	.1	.	.	.0	.	.0	.0	.0	.0	.0	.0	.0	.0	170	5
12-13	.0	.0	.7	.2	.2	.1	.1	.0	.	.	.0	.	.0	.0	.0	.0	.0	.0	.0	73	5
313	.0	.0	.0	.2	.1	.	.	.	.	.	.0	.	.0	.0	.0	.0	.0	.0	.0	24	7
INDET	9.2	2.0	1.4	.6	.4	.2	.1	.1	.0	.	.0	.0	.0	.0	.0	.0	.0	.0	.0	764	1
TOTAL	657	1257	1377	676	446	194	85	32	14	11	3	2	1	0	0	0	0	0	0	5160	5
PCT	16.6	24.4	26.7	17.0	8.7	3.6	1.6	.6	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1953-1976 AREA CODE GUATEMALA SW COAST
(COVER-ALL) 1970-1976 TABLE 1 12.0N 91.0W

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OR TIME	PCPN PAST HOUR	THDR STM	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.2	.6	.0	.0	.0	.0	.0	.2	.4	.2	*	.0	3.5	.1		95.3
NE	*	.5	.1	.0	.0	.0	.0	.1	.2	.2	.2	.0	2.0	.1		97.1
E	.1	.1	.1	.0	.0	.0	.0	.3	.1	*	.2	.0	2.0	.1		97.2
SE	.0	.3	.0	.0	.0	.0	.0	.3	*	.6	.0	.0	4.9	.0		94.0
S	.0	.5	.7	.0	.0	.0	.0	.5	.6	.0	.5	.0	6.2	.0		91.8
SW	.0	.5	.0	.0	.0	.0	.0	.5	.5	1.0	1.0	.0	4.1	.0		89.3
W	.6	.0	.0	.0	.0	.0	.0	.6	.2	.2	.2	.0	4.3	.0		93.7
NW	.1	.1	.0	.0	.0	.0	.0	.3	.6	.2	.1	.0	3.1	.0		96.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.3	.1	.0	.0	.0	.0	.0	.1	.2	.5	.1	.0	7.5	.0		91.5
TOT PCT	.1	.1	*	.0	.0	.0	.0	.2	.3	.3	.2	.0	3.7	*		95.4
TOT OBS:	7603															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OR TIME	PCPN PAST HOUR	THDR STM	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00SC3	.0	.1	.0	.0	.0	.0	.0	.1	.0	.1	.1	.0	3.0	*		96.6
06E09	.1	.1	.0	.0	.0	.0	.0	.1	.2	.4	.2	.0	3.2	.0		95.3
12E15	.3	.2	.1	.0	.0	.0	.0	.6	.2	.2	.2	.0	4.7	*		93.8
18E21	*	.1	.0	.0	.0	.0	.0	.1	.4	*	.2	.0	3.5	.1		95.5
TOT PCT	.1	.1	*	.0	.0	.0	.0	.2	.2	.7	.2	.0	3.6	*		95.3
TOT OBS:	8123															

TABLE 7

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)				
WND DIR	7-3	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	9.6	1.3	.1	.0	.0		14.1	6.4	7.7	10.9	14.6	14.0	19.6	16.1	15.3	12.2
NE	2.2	10.6	5.9	.4	*	.0		19.3	9.8	16.7	15.6	15.4	21.4	21.5	25.2	22.6	20.7
E	2.2	11.6	9.6	1.2	*	.0		24.6	10.4	26.1	24.3	19.7	21.4	20.8	25.2	31.1	30.6
SE	1.2	4.5	3.2	*	.0	.0		8.9	7.8	12.6	6.8	7.5	11.9	3.6	6.1	6.2	6.5
S	.7	3.6	.1	.0	.0	.0		4.4	5.7	4.4	3.9	2.2	1.6	1.8	2.0	1.5	2.4
SW	.7	3.8	.2	.1	.0	.0		4.7	6.0	3.4	4.3	2.3	2.4	1.6	2.5	2.2	2.2
W	1.1	4.3	.7	.1	.0	.0		6.4	6.5	6.8	10.1	7.1	5.6	5.1	6.3	6.1	7.6
NW	2.0	6.0	1.2	*	.0	.0		11.2	6.7	9.4	13.5	12.1	5.8	13.3	7.7	10.9	7.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	12.1							12.1	.0	6.0	11.0	19.3	15.0	13.1	10.4	6.2	7.4
TOT OBS	2165	4483	1716	462	8	0	8532		7.5	1966	131	1966	193	1839	221	2100	215
TOT PCT	25.4	52.3	20.1	5.1	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 7A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	6.7	5.2	.2	*	.0		14.1	6.4	7.9	14.3	14.3	15.0
NE	7.0	10.0	2.7	.7	.0		19.3	9.8	16.6	16.0	21.9	22.4
E	7.1	13.3	4.3	.7	.0		24.5	10.4	27.5	19.0	21.3	31.1
SE	5.4	3.2	.3	.0	.0		8.9	7.8	12.2	7.9	3.7	4.2
S	1.8	.8	*	.0	.0		2.6	5.7	4.2	2.1	1.8	1.6
SW	1.3	1.0	.1	.0	.0		2.4	6.0	4.0	2.4	1.6	2.6
W	3.7	2.6	.1	.0	.0		6.4	6.5	6.2	7.0	5.1	4.4
NW	6.4	4.7	.1	.0	.0		11.2	6.7	9.2	12.4	12.7	10.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	12.1						12.1	.0	6.3	14.9	12.8	6.2
TOT OBS	4435	3469	611	36	0	8532		7.5	2042	2061	2059	2331
TOT PCT	51.8	40.7	7.2	.4	.0		100.0		100.0	100.0	100.0	100.0

PERIOD (PRIMARY) 1953-1979
(OMER-ALL) 1870-1979

TABLE

.9 0009 GUATEMALA ... COAST
12.3N 91.0W

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	9.3	12.4	56.2	21.4	.7	*	.0	7.6	100.0	2057
06609	16.9	14.3	[illegible]	11.8	1.0	.0	.0	6.0	100.0	2061
12615	12.5	14.8	53.1	16.5	2.6	.1	.0	7.2	100.0	2049
18621	6.1	11.7	48.5	29.5	4.1	.1	.0	9.1	100.0	2315
TOT	1035	1190	4467	1716	352	6	0	7.5		8432
PCT	12.1	13.7	52.3	20.1	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 & OBSCR	TOTAL OBS	MEAN CLOUD AMOUNT
N	9.0	2.9	2.0	.5		2.2
NE	17.0	3.0	2.4	.5		1.9
E	38.0	4.3	3.1	.5		1.4
SE	4.3	1.2	1.0	.1		2.1
S	1.4	.4	.5	.1		2.6
SW	1.4	.4	.3	.1		2.2
W	3.7	1.2	1.0	.2		2.3
NW	7.1	2.3	1.7	.4		2.3
VAR	.0	.0	.0	.0		.0
CALM	4.4	1.0	1.3	.3		1.4
TOT OBS	4295	1139	957	175	6466	2.0
TOT PCT	66.4	17.6	13.3	2.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING AND OCCURRENCE OF MH <5/8 BY WIND DIRECTION

WND DIR	CEIL 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	MH <5/8 ANY HGT	TOTAL OB
N	*	.0	*	.1	.4	.3	.1	.1	*	.1	17.2	
NE	*	.0	.0	.2	.4	.4	.2	*	.1	*	17.4	
E	*	*	*	.3	.6	.3	.1	.1	*	.1	24.1	
SE	*	.0	.0	.1	.1	.1	.1	.1	*	.1	6.2	
S	*	.0	.0	*	.1	.1	*	*	*	*	2.0	
SW	*	.0	.0	.1	.1	*	*	*	.0	*	2.3	
W	.0	.0	*	.1	.2	.1	*	*	.0	*	5.6	
NW	*	.0	*	.2	.2	.1	.1	*	*	*	3[illegible]	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	*	.2	.4	.1	.1	*	*	*	11.1	
TOT OBS	8	2	8	76	154	98	47	22	12	23	6006	6466
TOT PCT	.1	*	.1	1.2	2.5	1.5	.7	.3	.2	.4	92.9	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) E OR >10	E OR >5	E OR >2	E OR >1	E OR >1/2	E OR >1/4	E OR >5280	E OR >0
E OR >6500	.5	.5	.5	.5	.5	.5	.5	.6
E OR >5000	.8	.9	.9	.9	.9	.9	.9	.9
E OR >3500	1.4	1.6	1.6	1.6	1.6	1.6	1.6	1.6
E OR >2000	2.8	3.0	3.1	3.1	3.1	3.1	3.1	3.1
E OR >1000	5.0	5.5	5.5	5.5	5.5	5.5	5.5	5.5
E OR >600	6.0	6.6	6.7	6.7	6.7	6.7	6.7	6.7
E OR >300	6.1	6.7	6.8	6.8	6.9	6.9	6.9	6.9
E OR >150	6.1	6.7	6.9	6.9	6.9	6.9	6.9	6.9
E OR > 0	6.2	6.8	7.0	7.0	7.0	7.0	7.0	7.0
TOTAL	409	443	462	463	464	464	464	464

TOTAL NUMBER OF OBS: 6623 PCT FREQ HH <5/8: 93.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
43.8	20.5	15.[illegible]	8.7	4.5	2.[illegible]	2.1	1.6	.9	* 6982

PERIOD (PRIMARY) 1953-1979
(OVER-ALL) 1870-1979

AREA 0009 GUATEMALA SW COAST
12.0N 91.0W

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO 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	*	
	TOT %	.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	.1	
	TOT %	.0	.0	*	.0	.0	.0	*	.0	.0	.0	.1	
2<5	PCP	.0	.0	*	.0	.0	.0	.0	*	.0	.0	*	
	NO PCP	*	*	*	*	*	.1	.1	*	.0	.1	.4	
	TOT %	*	*	.1	*	*	.1	.1	*	.0	.1	.4	
5<10	PCP	*	*	*	.0	*	.0	.0	.0	.0	.0	.1	
	NO PCP	.7	.9	.9	.4	.2	.3	.4	.6	.0	.9	5.2	
	TOT %	.7	.9	.9	.4	.2	.3	.4	.6	.0	.9	5.2	
10+	PCP	*	.0	*	*	.0	*	*	*	.0	*	.1	
	NO PCP	13.7	18.5	24.1	6.5	2.2	2.2	5.6	10.6	.0	10.8	94.1	
	TOT %	13.7	18.5	24.1	6.5	2.2	2.2	5.6	10.6	.0	10.8	94.2	
	TOT OBS												7680
	TOT PCT	14.4	19.5	25.1	6.9	2.4	2.5	6.1	11.3	.0	11.8	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		*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	*	*	*	.0	*	.0	.0	.0	*	
1/2<1	0-3	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
	4-10	.0	*	*	.0	.0	.0	.0	*	.0		*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	*	.0	.0	*	.0	*	.0	.0	.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	
	4-10	.0	.0	*	.0	.0	.0	.0	*	.0		*	
	11-21	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	*	.0	.0	.0	*	*	.0	.0	.1	
2<5	0-3	.0	*	*	*	*	.0	.0	.0	.0	.1	.1	
	4-10	*	.1	*	*	*	.1	*	*	.0		.3	
	11-21	*	*	.1	.0	.0	.0	*	*	.0		.1	
	22+	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	TOT %	*	.1	.1	.1	*	.1	.1	.1	.0	.1	.6	
5<10	0-3	.2	.1	.2	.1	*	*	*	.1	.0	.9	1.7	
	4-10	.4	.4	.3	.2	.2	.2	.3	.4	.0		2.4	
	11-21	.1	.3	.3	.1	.0	*	*	*	.0		.9	
	22+	*	.1	.1	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.7	.9	.9	.4	.2	.2	.4	.6	.0	.9	5.1	
10+	0-3	2.8	2.0	2.0	1.0	.6	.7	1.2	1.9	.0	11.1	23.3	
	4-10	9.6	9.9	11.5	4.2	1.4	1.4	3.8	7.5	.0		49.5	
	11-21	1.2	5.6	9.3	1.1	.1	.1	.6	1.1	.0		19.2	
	22+	*	.8	1.2	*	.0	.0	.0	*	.0		2.1	
	TOT %	13.6	18.4	24.0	6.5	2.1	2.2	5.7	10.6	.0	11.1	94.1	
	TOT OBS												8301
	TOT PCT	14.3	19.4	25.0	6.9	2.4	2.5	6.2	11.2	.0	12.0	100.0	

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1870-1979

AREA 0009 GUATEMALA SW COAST
12.0N 91.0W

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00E03	.1	.1	.0	.7	1.8	1.1	.7	.3	.1	.3	5.3	94.7	1805
06E09	.1	.0	.1	.7	1.2	.9	.1	.2	.4	.3	3.9	96.1	1659
12E15	.5	.0	.2	1.9	4.3	2.3	1.0	.5	.1	.4	11.0	89.0	1724
18E21	.0	.0	.2	1.3	2.0	1.4	.9	.3	.2	.3	6.6	93.4	1764
TOT	6	2	9	80	162	99	48	22	12	24	468	6486	6952
PCT	.1	*	.1	1.2	2.3	1.4	.7	.3	.2	.3	6.7	93.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2 - 1<2	2<5	5<10	10+	TOTAL OBS
00E03	*	.1	.1	.6	3.8	95.4	2102
06E09	.1	.1	*	.5	5.3	93.9	2075
12E15	*	*	.1	1.0	6.5	92.3	2079
18E21	.1	.0	.1	.4	4.8	94.6	2264
TOT	6	6	7	53	435	8013	8620
PCT	.1	.1	.1	.6	5.1	94.0	100.0

TABLE 12

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

HOUR (GMT)	<150 <5OYD	<600 <1	<1000 <5	1000+ AND5+	NM <5/8 AND 5+	TOTAL OBS
00E03	.2	.3	1.3	4.4	94.3	1724
06E09	.1	.3	1.5	3.2	95.3	1577
12E15	.3	.5	3.1	8.8	88.1	1654
18E21	.1	.3	2.0	5.4	92.6	1867
TOT	10	23	132	362	6129	6623
PCT	.2	.3	2.0	5.5	92.5	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	.2	.6	.1	*	.0	64	1.0
85/89	.0	.0	.1	.6	4.5	6.3	1.3	.4	852	13.2
80/84	.0	.0	-	.7	10.5	34.5	19.2	3.2	4384	68.0
75/79	.0	.0	.0	*	.3	5.0	8.1	3.5	1094	17.0
70/74	.0	.0	.0	.0	*	*	.3	.4	52	.8
TOTAL	0	0	6	97	1024	2957	1871	491	6446	100.0
PCT	.0	.0	.1	1.5	15.9	45.9	29.0	7.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.2	.1	.2	.1	*	*	.1	.2	.0	.2
	2.1	1.8	3.5	1.2	.4	.3	1.1	1.5	.0	1.3
	9.4	12.4	17.4	4.6	1.6	1.6	4.4	8.1	.0	8.5
	2.7	4.7	4.3	.7	.2	.2	.6	1.4	.0	2.2
	.1	.3	.2	*	.0	.0	.0	*	.0	.2
	14.6	19.2	25.5	6.6	2.3	2.1	6.2	11.2	.0	12.3

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	96	89	87	82	78	75	68	82.4	2121
06E09	89	86	84	81	77	74	68	80.6	2127
12E15	88	85	84	81	76	74	70	80.3	2103
18E21	94	91	89	84	79	77	68	83.6	2331
TOT	96	90	87	82	77	74	68	81.8	8682

TABLE 16

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	1.4	22.0	51.5	20.4	4.6	75	1683
06E09	.0	.4	8.7	43.7	36.4	10.8	80	1623
12E15	.0	.6	6.2	41.3	40.1	11.7	80	1649
18E21	.0	3.8	25.4	46.8	20.5	3.6	74	1677
TOT	0	103	1043	3041	1939	506	77	6632

MARCH

PERIOD: (PRIMARY) 1953-1976
(OVER-ALL) 1870-1979

TABLE 17

AREA 0009 GUATEMALA SW COAST
12.0N 91.0W

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

AIR-SEA TMP DIF	≤5 68	69 72	73 76	77 80	81 84	85 88	89 92	≥92 97	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.1	.1	*	.0	13	.0	.2
11/13	.0	.0	.0	*	.1	.1	.1	*	28	.0	.4
9/10	.0	.0	.0	.1	.2	.3	.2	.1	62	.0	.8
7/8	.0	.0	.0	.2	.5	.5	.5	*	127	.0	1.7
5	.0	.0	.0	.3	.4	.6	.2	.0	121	.0	1.6
4	.0	.0	*	.4	.9	1.1	.3	.0	200	.0	2.7
3	.0	.0	*	.5	1.7	1.7	.2	.0	308	.0	4.1
2	.0	.0	.1	.8	1.7	1.2	.1	.0	310	.0	4.2
1	.0	.0	.1	1.3	4.8	2.2	.1	.0	643	*	8.6
0	.0	*	.1	1.6	5.3	1.4	.0	.0	636	*	8.5
-1	.0	*	.5	3.8	10.8	1.6	*	.0	1256	*	16.8
-2	.0	.0	.3	3.0	9.2	.7	*	.0	992	*	13.2
-3	.0	*	.2	4.7	8.3	.3	.0	.0	1013	*	13.5
-4	.0	*	.2	3.5	4.3	.2	.0	.0	610	*	8.1
-5	.0	*	.2	3.5	3.0	.1	.0	.0	520	.0	7.0
-6	.0	*	.3	2.1	1.7	.1	.0	.0	314	*	4.2
-7/-8	.0	.0	.2	1.3	.6	.0	.0	.0	159	.0	2.1
-9/-10	.0	.0	.3	.9	.3	*	.0	.0	114	*	1.5
-11/-13	.0	*	.1	.2	*	.0	.0	.0	31	.0	.4
-14/-16	*	.0	.1	*	*	.0	.0	.0	9	.0	.1
TOTAL	1		.0	.0	.0	.0	.0	.0	1	.0	*
			222		4050		131			14	7451
		16		2213		923		9	7465		
PCT	*	.2	3.0	28.3	54.3	12.4	1.8	.1	100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	2.1	.0	.0	.0	.0	2.6
1-2	.6	5.9	.7	.0	.0	.0	7.2
3-4	.2	1.4	.7	.1	.0	.0	2.4
5-6	.0	.2	.2	.0	.0	.0	.3
7	.0	.0	.3	.0	.0	.0	.3
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	1.3	9.6	1.9	.1	.0	.0	13.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	1.8	.0	.0	.0	.0	2.9
1-2	.6	4.4	2.0	.0	.0	.0	7.0
3-4	.1	2.5	3.2	.2	.0	.0	6.1
5-6	.1	.6	2.7	.2	.0	.0	3.5
7	.0	.1	.6	.6	*	.0	1.2
8-9	.0	*	.3	.5	.0	.0	.7
10-11	.0	.0	.1	.2	.0	.0	.3
12	.0	.0	.0	*	*	.0	*
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	9.4	8.9	1.8	*	.0	22.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1	.0	.0	.0	.0	2.0
1-2	.5	6.1	2.3	.0	.0	.0	8.9
3-4	*	3.7	6.2	.4	.0	.0	10.3
5-6	.0	1.2	3.3	.4	.0	.0	4.8
7	.0	.3	2.1	.6	*	.0	3.0
8-9	.0	*	.3	.4	.0	.0	.8
10-11	.0	.0	.1	.3	.0	.0	.3
12	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.2	*	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.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	12.7	14.2	2.3	.1	.0	30.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.4	.1	.0	.0	.0	.8
1-2	.2	2.1	.3	.0	.0	.0	2.6
3-4	.4	1.2	.8	.0	.0	.0	2.0
5-6	.0	.1	.5	.0	.0	.0	.7
7	.0	.1	.2	.0	.0	.0	.2
8-9	.0	.0	.1	*	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	4.0	2.0	*	.0	.0	6.0

PERIOD: (OVER-ALL) 1963-1979 AREA 0009 GUATEMALA Sw COAST

TABLE 18 (CONT) 12.0N 91.0W

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.4	.0	.0	.0	.0	.7
1-2	.1	.9	.2	.0	.0	.0	1.2
3-4	.0	.3	.0	.0	.0	.0	.3
5-6	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	*	.0	.0	.0	*
8-9	.0	.1	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.7	.2	.0	.0	.0	2.3

SW

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

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.6	*	.0	.0	.0	1.0
1-2	.4	2.0	.3	.0	.0	.0	2.7
3-4	.1	.2	.2	.0	.0	.0	.4
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	2.9	.6	.0	.0	.0	4.2

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.4	1.2	*	.0	.0	.0	1.6	
1-2	.6	5.0	.4	.0	.0	.0	6.0	
3-4	.0	1.2	.5	.1	.0	.0	1.8	
5-6	.1	.2	.1	.1	.0	.0	.5	
7	.0	.1	.0	.0	.0	.0	.1	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.1	7.7	1.0	.1	.0	.0	10.0	90.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	13.3	8.6	.2	.0	.0	.0	22.2	
1-2	3.6	26.6	6.2	.0	.0	.0	36.3	
3-4	.9	10.6	11.4	.8	.0	.0	23.7	
5-6	.1	2.4	6.8	.6	.0	.0	10.0	
7	.0	.4	3.2	1.1	.1	.0	4.9	
8-9	.0	.1	.7	.9	.0	.0	1.7	
10-11	.0	.0	.2	.5	.0	.0	.7	
12	.0	.0	.0	.2	.0	.0	.2	
13-16	.0	.0	.0	.2	.1	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	18.1	48.8	28.7	4.3	.1	.0	100.0	1626

PERIOD: (OVER-ALL) 1949-1979 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	6.8	20.4	15.9	5.7	1.9	.7	.2	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	3021	3
6-7	.2	2.7	6.3	5.2	2.6	.9	.4	.2	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	1092	5
8-9	.1	1.0	2.3	2.2	1.2	.4	.3	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	437	5
10-11	.0	.8	1.2	.6	.5	.3	.2	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	228	5
12-13	.0	.0	.9	.4	.2	*	*	.1	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	104	5
>13	.0	*	.0	.5	.2	.1	*	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	48	6
INDET	10.1	1.7	1.9	1.0	.5	.2	.1	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	899	1
TOTAL	996	1554	1652	927	412	155	67	30	24	6	*	0	0	0	0	0	0	0	0	5829	3
PCT	17.1	26.7	28.3	15.9	7.1	2.7	1.2	.5	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1957-1979
(OVER-ALL) 1862-1979

AREA 0009 GUATEMALA SW COAST
11.9N 91.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.5	.3	.0	.0	.0	.0	.0	.9	1.3	.3	.4	.0	9.2	.0	.0	87.6
NE	.1	.4	.1	.0	.0	.0	.0	.7	.3	1.5	.5	.0	5.3	.0	.0	91.8
E	.6	.3	.2	.0	.0	.0	.0	1.0	.8	.5	.4	.0	6.1	.0	.0	91.2
SE	.4	.3	.1	.0	.0	.0	.0	.8	1.4	2.5	.6	.0	7.7	.0	.0	87.2
S	.0	.0	.2	.0	.0	.0	.0	.2	1.1	2.2	.6	.0	10.1	.0	.0	85.8
SW	.1	.1	.4	.0	.0	.0	.0	.6	1.7	3.5	.0	.0	9.3	.0	.0	85.9
W	.3	.3	.0	.0	.0	.0	.0	.5	.7	2.5	.2	.0	12.3	.0	.0	84.0
NW	.2	.1	.1	.0	.0	.0	.0	.4	.5	2.5	.5	.0	7.1	.0	.0	88.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.3	.0	.0	.0	.0	.0	.3	.7	1.5	1.0	.0	16.0	.1	.0	80.5
TOT PCT	.3	.3	.1	.0	.0	.0	.0	.7	.8	1.5	.5	.0	8.6	*	.0	87.9
TOT OBS:	7816															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER 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	.1	.1	.1	.0	.0	.0	.0	.3	.6	.2	.6	.0	8.7	.0	.0	89.6
06&09	.1	.2	.0	.0	.0	.0	.0	.3	.3	.3	.6	.0	7.3	.0	.0	87.6
12&15	.8	.5	.2	.0	.0	.0	.0	1.4	1.6	2.0	.7	.0	9.2	.1	.0	85.2
18&21	.3	.4	.1	.0	.0	.0	.	.8	.9	.3	.3	.0	8.9	.0	.0	88.7
TOT PCT	.3	.7	.1	.0	.0	.0	.0	.7	.9	1.6	.5	.0	8.5	*	.0	87.8
TOT OBS.	8073															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	6.6	.9	*	.0	.0		10.0	6.2	5.0	4.9	8.7	7.6	15.7	13.6	11.7	9.6
NE	2.1	8.3	3.5	.3	.1	.0		14.2	8.8	11.2	7.6	10.2	14.1	16.4	20.4	17.6	15.3
E	2.5	12.6	9.2	1.0	*	.0		25.4	10.5	27.7	16.6	18.0	18.6	23.4	22.4	33.0	23.3
SE	1.6	6.5	2.2	.1	.0	.0		10.3	8.0	17.6	15.5	11.7	9.1	4.6	8.7	7.3	10.6
S	1.1	2.6	.3	.0	.0	.0		4.2	5.8	6.8	5.9	4.8	4.9	2.3	3.9	2.9	4.7
SW	1.9	2.6	.2	.0	.0	.0		3.8	5.9	5.8	7.4	4.5	3.0	2.2	3.1	2.5	5.4
W	1.8	5.5	.6	.0	.0	.0		7.8	6.1	8.6	15.5	11.6	7.9	6.6	3.6	4.8	8.5
NW	2.3	7.3	.9	*	.0	.0		10.4	6.3	6.9	9.0	10.7	14.1	12.5	15.0	10.8	12.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	13.8							13.8	.0	10.5	17.6	20.4	20.7	15.9	9.3	9.3	9.8
TOT OBS	2421	4431	1502	122	7	0	8462		7.0	1914	119	1887	184	1791	716	2138	193
TOT PCT	28.6	52.1	17.7	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	6.4	3.5	.2	*	.0		10.0	6.2	5.0	8.0	15.4	11.5
NE	6.0	6.8	1.3	.1	.0		14.2	8.8	11.0	10.6	17.2	17.6
E	7.5	13.5	3.9	.2	*		25.4	10.5	27.0	18.0	23.3	32.2
SE	4.7	5.2	.5	*	.0		10.3	8.0	17.5	11.5	5.1	7.6
S	2.9	1.3	*	.0	.0		4.2	5.8	6.7	4.9	2.5	3.0
SW	2.5	1.3	*	.0	.0		3.8	5.9	5.9	4.4	2.3	2.7
W	5.1	2.7	*	.0	.0		7.8	6.1	9.1	11.3	6.2	5.1
NW	6.5	3.9	.1	*	.0		10.4	6.3	7.0	11.0	12.8	10.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	13.8						13.8	.0	10.9	20.9	15.1	9.3
TOT OBS	4715	2226	466	24	1	8462		7.0	2033	2071	2027	2331
TOT PCT	55.7	38.1	5.9	.3	*		100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1955-1974
(OVER-ALL) 1962- 979

AREA 0009 GUATEMALA SW COAST
11.4N 91.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00E03	10.6	12.5	57.1	18.9	.4	.0	.0	7.2	100.0	2033
06E09	20.4	15.8	53.6	9.6	.3	*	.0	5.5	100.0	2071
12E15	15.1	16.8	46.4	15.9	2.7	.1	.0	6.7	100.0	2027
18E21	9.3	14.2	48.2	25.6	2.5	.1	.0	8.3	100.0	2331
TOT	1168	1253	4410	1502	122	7	0	7.0		8462
PCT	13.8	14.8	52.1	17.7	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	4.2	1.9	2.4	1.7		3.4
NE	7.0	3.2	3.7	1.3		3.1
E	12.6	5.6	6.1	2.3		3.1
SE	4.5	2.5	2.3	.9		3.2
S	1.6	.5	1.0	.5		3.6
SW	1.0	.6	1.0	.6		4.3
W	2.9	1.5	1.9	1.2		3.8
NW	4.2	2.2	2.1	1.1		3.4
VAR	.0	.0	.0	.0		.0
CALM	7.7	2.4	2.6	1.3		2.8
TOT OBS	2898	1335	1433	670	5336	3.3
TOT PCT	45.7	21.1	22.6	10.4	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	HM <5/8 ANY HGT	TOTAL OBS
N	*	.0	.1	.2	.5	.2	.2	.1	*	.1	8.5	
NE	*	*	*	.3	.6	.4	.1	.1	*	.1	12.6	
E	.2	.1	.1	.7	1.1	.6	.4	.1	.1	.1	23.2	
SE	*	*	*	.3	.4	.3	.1	.1	.1	*	8.6	
S	*	.0	.0	.2	.2	.1	*	*	*	*	5.4	
SW	*	.0	*	.1	.3	.1	.1	*	*	*	7.8	
W	.1	.0	.1	.1	.5	.3	.1	.1	*	.1	6.2	
NW	*	*	.1	.2	.5	.2	.1	.1	.1	.1	8.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	*	*	.5	.5	.2	.1	*	*	*	12.4	
TOT OBS	28	9	32	164	294	164	74	45	30	23	5464	5336
TOT PCT	.4	.1	.5	2.6	4.6	2.6	1.2	.7	.5	.5	86.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (HM >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	.9	1.1	1.1	1.1	1.1	1.1	1.1	1.1
= OR >5000	1.5	1.8	1.8	1.8	1.8	1.8	1.8	1.8
= OR >3500	2.5	2.9	3.0	3.0	3.0	3.0	3.0	3.0
= OR >2000	4.6	5.4	5.5	5.5	5.5	5.5	5.5	5.5
= OR >1000	8.1	10.0	10.2	10.2	10.2	10.2	10.2	10.2
= OR >400	10.1	12.4	12.7	12.8	12.8	12.8	12.8	12.8
= OR >200	10.3	13.0	13.2	13.3	13.3	13.3	13.3	13.3
= OR >150	10.4	13.1	13.3	13.4	13.4	13.4	13.4	13.4
= OR > 0	10.6	13.4	13.7	13.7	13.8	13.8	13.8	13.8
TOTAL	693	877	894	899	901	902	902	902

TOTAL NUMBER OF OBS: 6441 PCT FREQ HM <5/8: 86.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
34.2	17.6	15.8	10.9	7.3	3.9	4.1	2.6	3.2	.3	6887

PERIOD. (PRIMARY) 1953-1979
(OVER-ALL) 1962-1979

AREA 0009 GUATEMALA SW COAST
11.9N 91.0W

TABLE 8

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

VSBY (KM)		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	*	*	
	TOT %	.0	*	.0	.0	.0	.0	.0	.0	.0	*	*	
1/2<1	PCP	.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	*	
1<2	PCP	*	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	NO PCP	*	*	*	.0	.0	.0	*	*	.0	.1	.1	
	TOT %	*	*	*	.0	.0	.0	*	*	.0	.1	.1	
2<5	PCP	*	*	*	.0	.0	.0	.0	*	.0	.0	.1	
	NO PCP	.1	*	.2	.1	*	*	*	*	.0	.1	.6	
	TOT %	.1	*	.2	.1	*	*	*	*	.0	.1	.7	
5<10	PCP	*	*	.1	.1	.0	*	*	*	.0	*	.3	
	NO PCP	1.3	1.5	2.4	1.3	.6	.6	1.0	1.3	.0	2.8	12.9	
	TOT %	1.3	1.5	2.5	1.4	.6	.6	1.0	1.3	.0	2.9	13.2	
10+	PCP	*	*	.1	*	*	*	*	*	.0	*	.3	
	NO PCP	8.6	12.7	23.1	8.9	3.6	3.0	6.5	8.6	.0	10.6	85.6	
	TOT %	8.6	12.7	23.2	8.9	3.6	3.0	6.5	8.7	.0	10.6	85.9	
	TOT OBS												7610
	TOT PCT	10.1	14.3	26.0	10.4	4.2	3.7	7.6	10.1	.0	13.7	100.0	

TABLE 9

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

VSBY (KM)	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	
	4-10	.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	*	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	22+	.0	*	*	.0	.0	.0	.0	.0	.0		*	
	TOT %	.0	*	*	.0	.0	.0	.0	*	.0	.0	*	
1<2	0-3	*	*	*	.0	.0	.0	*	.0	.0	.1	.2	
	4-10	.0	.0	.0	.0	.0	.0	.0	*	.0		*	
	11-21	*	*	.0	.0	.0	.0	*	*	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	*	.0	.0	.0	*	*	.0	.1	.2	
2<5	0-3	.1	*	*	*	.0	*	*	.1	.0	.3	.5	
	4-10	.1	*	.2	.1	*	*	.1	.1	.0		.6	
	11-21	.0	*	.1	*	*	*	*	*	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.1	.3	.1	*	.1	.1	.2	.0	.3	1.3	
5<10	0-3	.4	.3	.4	.3	.1	.2	.3	.3	.0	2.8	5.1	
	4-10	.8	.9	1.3	.8	.4	.4	.6	.9	.0		6.1	
	11-21	.1	.2	.8	.3	*	*	.1	.1	.0		1.7	
	22+	.0	*	.1	*	.0	.0	.0	.0	.0		.1	
	TOT %	1.3	1.5	2.5	1.4	.6	.6	1.0	1.4	.0	2.8	13.1	
10+	0-3	2.0	1.7	2.0	1.2	.9	.7	1.4	1.8	.0	10.6	22.3	
	4-10	5.7	7.3	11.4	5.6	2.4	2.2	4.7	6.2	.0		45.5	
	11-21	.8	3.2	8.5	1.9	.2	.2	.5	.7	.0		16.1	
	22+	*	.3	1.0	.1	.0	.0	.0	*	.0		1.4	
	TOT %	8.5	12.5	22.8	9.8	3.6	3.1	6.6	8.7	.0	10.6	85.3	
	TOT OBS												8153
	TOT PCT	10.1	14.1	25.7	10.3	4.2	3.8	7.7	10.3	.0	13.8	100.0	

APRIL

PERIOD: (PRIMARY) 1953-1974
(OVER-ALL) 1962-1974

AREA 0009 GUATEMALA S. COAST
11.9N 91.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,AM 24/2) AND OCCURRENCE OF AM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	AM <5/8 ANY HGT	TOTAL OBS
00E03	.2	.1	.4	1.4	3.5	2.2	1.1	.3	.2	.6	10.0	90.0	1753
06E09	.4	.0	.2	1.2	2.7	1.1	.8	.6	.6	.3	7.7	92.3	1615
12E15	.7	.2	.6	4.1	6.3	3.1	1.4	.8	.7	.4	18.9	81.1	1657
18E21	.4	.2	.7	3.3	5.2	3.3	1.1	1.1	.4	.6	16.2	83.8	1797
TOT	26	9	33	170	305	167	75	45	31	40	906	5516	6422
PCT	.4	.1	.5	2.6	4.5	2.4	1.1	.7	.5	.6	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
00E03	.1	.0	.0	1.0	10.5	88.4	2047
06E09	.1	.1	.2	1.2	12.6	85.7	2053
12E15	.1	*	.4	1.7	17.3	80.4	2041
18E21	.1	.0	.2	1.3	11.9	86.6	2276
TOT	9	4	17	110	1098	7175	8413
PCT	.1	*	.2	1.3	13.1	85.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,AM 24/2),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <2	1000+ AND/OR	AM <5/8 AND 5+	TOTAL OBS
00E03	.2	.6	2.7	9.1	89.2	1699
06E09	.4	.7	2.8	6.1	91.1	1547
12E15	.7	1.5	6.9	13.7	79.3	1571
18E21	.4	1.3	5.4	11.9	82.7	1724
TOT	27	70	291	654	5596	6541
PCT	.4	1.1	4.4	10.0	85.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60 69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.0	*	.0	.0	.0	3	*
90/94	.0	*	*	.3	1.3	.7	.1	*	161	2.5
85/89	.0	.0	*	.5	5.9	17.1	3.4	.7	1530	23.8
80/84	.0	.0	.0	.4	6.7	30.1	25.0	4.1	4299	66.9
75/79	.0	.0	.0	*	.1	1.6	3.7	2.1	485	7.5
70/74	.0	.0	.0	.0	.0	*	*	*	4	.1
TOTAL	0	1	3	75	510	2946	2063	450	6482	100.0
PCT	.0	*	*	1.2	14.0	45.4	32.3	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	.0
.3	.2	.7	.2	.1	*	.1	.3	.0	.4
2.6	3.0	5.6	2.9	1.2	1.1	1.9	2.7	.0	3.1
6.3	9.6	17.9	6.9	2.4	2.3	5.3	6.2	.0	9.9
.8	1.7	2.2	.5	.2	.2	.3	.5	.0	1.1
*	*	.0	.0	.0	.0	.0	.0	.0	.0
10.0	14.5	26.4	10.0	3.9	3.5	7.6	9.7	.0	14.1

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	94	90	84	84	79	77	70	83.5	2078
06E09	92	86	85	82	78	76	72	82.0	2150
12E15	91	86	85	82	78	76	73	81.7	2078
18E21	96	92	90	85	80	77	69	85.0	2353
TOT	96	91	88	83	79	76	69	83.1	8659

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	1.3	17.5	50.9	25.1	5.2	76	1676
06E09	.0	.2	6.9	41.2	42.4	9.3	80	1659
12E15	.0	.8	6.1	39.6	42.9	10.6	80	1648
18E21	.0	2.6	24.7	49.8	20.1	2.8	74	1718
TOT	0	94	932	3546	2176	463	77	6701

APRIL

PERIOD: (PRIMARY) 1954-1974
(OVER-ALL) 1867-1979

AREA 0009 GUATEMALA SW COAST
11.9N 91.0W

TABLE 17

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

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	* FOG	NO FOG
14/16	.0	.0	.0	.0	*	*	.0	5	.0	.1
11/13	.0	.0	.0	.1	.1	.1	*	19	.0	.3
9/10	.0	.0	.0	.2	.2	.2	.1	46	.0	.7
7/8	.0	.0	*	.4	.5	.6	.1	118	*	1.6
6	.0	.0	*	.2	.4	.4	*	75	.0	1.0
5	.0	.0	.1	.7	.9	.6	.1	172	*	2.3
4	.0	.0	.2	.9	1.6	.7	.0	250	.0	3.4
3	.0	*	.3	1.4	1.8	.4	.0	282	.0	3.8
2	.0	*	.7	3.3	3.5	.3	.0	572	.1	7.7
1	.0	.1	.8	3.8	3.2	.2	.0	597	*	8.1
0	.0	.1	1.5	4.2	4.1	*	.0	1097	.1	14.9
-1	.0	*	1.6	8.7	2.9	.1	.0	970	.1	13.1
-2	.0	.1	1.9	11.8	1.3	.0	.0	1117	.1	15.1
-3	.0	*	1.5	7.0	.4	.0	.0	692	*	9.4
-4	.0	.1	2.0	5.7	.1	.0	.0	595	*	8.1
-5	.0	.1	1.4	3.1	.2	.0	.0	347	*	4.7
-6	.0	*	1.1	1.4	*	.0	.0	186	.0	2.5
-7/-8	.0	.1	1.0	.4	*	.0	.0	149	*	2.0
-9/-10	*	.1	.1	.2	.0	.0	.0	41	.0	.6
-11/-13	*	.0	*	*	.0	.0	.0	5	.0	.1
-14/-16	.0	.0	*	.0	.0	.0	.0	2	.0	*
TOTAL	2		1054		1611		19		35	7305
		65		4327		262		7340		
PCT	*	.9	14.4	59.0	21.9	3.6	.3	100.0	.5	99.5

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

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

%

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	2.2	.0	.0	.0	.0	3.5
1-2	.7	3.7	.5	.0	.0	.0	4.9
3-4	.1	1.2	.2	.0	.0	.0	1.5
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	*	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.1	7.1	1.0	.0	.0	.0	10.2

%E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	2.6	.0	.0	.0	.0	3.7
1-2	.6	5.0	1.3	.0	.0	.0	6.9
3-4	.1	1.2	1.7	*	.0	.0	3.1
5-6	.0	.4	.7	.1	.0	.0	1.3
7	.0	.1	.4	*	.0	.0	.5
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	*	*	*	.0	*
12	.0	.0	.0	.0	.1	.0	.1
13-16	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	9.2	4.2	.3	.1	.0	15.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	2.4	.1	.0	.0	.0	3.4
1-2	.7	7.2	2.1	.0	.0	.0	10.0
3-4	.2	3.1	4.0	.2	.0	.0	7.5
5-6	.0	1.0	2.3	.1	.1	.0	3.4
7	.1	.0	1.1	.5	.0	.0	1.7
8-9	.0	.0	.5	.2	.0	.0	.7
10-11	.0	.0	.1	*	*	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	13.8	10.2	1.0	.1	.0	26.9

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	.7	2.9	.7	.0	.0	.0	4.3
3-4	*	1.1	1.0	.0	.0	.0	2.1
5-6	.1	.4	.7	.1	.0	.0	1.2
7	.0	*	.1	.0	.0	.0	.2
8-9	.0	.1	.1	.0	.0	.0	.2
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	6.0	2.0	.1	.0	.0	10.2

APRIL

PERIOD: (OVER-ALL) 1949-1979 AREA 0009 GUATEMALA Sw COAST

TABLE 18 (CONT) 11.4N 91.0W

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.6	.0	.0	.0	.0	1.0
1-2	.2	1.2	.1	.0	.0	.0	1.6
3-4	.1	.3	.0	.0	.0	.0	.4
5-6	.0	.1	.0	.0	.0	.0	.1
7	.0	.1	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	2.2	.1	.0	.0	.0	3.0

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.7	.0	.0	.0	.0	.8
1-2	.4	.9	.2	.0	.0	.0	1.5
3-4	.1	.4	.0	.0	.0	.0	.6
5-6	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	3.4	.2	.0	.0	.0	4.5

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.4	.0	.0	.0	.0	2.6
1-2	.4	2.0	.0	.0	.0	.0	2.6
3-4	.0	.7	.0	.0	.0	.0	.8
5-6	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.1	6.6	.1	.0	.0	.0	9.5

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	2.5	.0	.0	.0	.0	3.6
1-2	.5	3.7	.1	.0	.0	.0	4.3
3-4	.1	.7	.0	.0	.0	.0	1.0
5-6	.0	.1	.0	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	7.0	.2	.0	.0	.0	9.5	45.1

TOTAL PCT

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	22.4	13.9	.1	.0	.0	.0	36.5	
1-2	5.0	24.4	5.1	.0	.0	.0	36.4	
3-4	.1	8.8	8.4	.0	.0	.0	16.7	
5-6	.0	1.1	5.2	.0	.0	.0	6.3	
7	.0	.1	2.4	.0	.0	.0	2.4	
8-9	.0	.0	1.2	.0	.0	.0	1.2	
10-11	.0	.0	.2	.0	.0	.0	.3	
12	.0	.0	.0	.0	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	28.4	53.2	18.7	1.4	.2	.0	100.0	1640

PERIOD: (OVER-ALL) 1949-1979 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	7.9	20.5	34.9	5.4	1.6	.7	.1	.1	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	2980	3
6-7	.2	2.8	6.8	5.0	1.6	1.1	.3	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	1065	4
8-9	.1	1.3	2.3	1.7	.8	.5	.2	.1	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	404	4
10-11	.0	.7	1.0	.9	.4	.2	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	202	5
12-13	.0	.0	.8	.4	.3	.2	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	104	5
>13	.0	.0	.0	.4	.3	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	56	7
INDET	12.4	1.7	1.8	.7	.3	.2	.1	.0	*	.0	*	.0	.0	.0	.0	.0	.0	.0	*	.002	1
TOTAL	1199	1572	1605	847	326	176	50	18	13	5	4	0	0	0	0	0	0	0	0	5815	3
PCT	20.6	27.0	27.6	14.6	5.6	3.0	.9	.3	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1953-1979
(COVER-ALL) 1961-1979

AREA 0009 GUATEMALA SW COAST
21.8N 91.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.2	.6	.4	.0	.0	.0	.0	3.4	3.7	3.7	.2	.0	5.8	.0	85.3
NE	2.6	1.1	.6	.0	.0	.0	.0	3.7	2.6	2.7	.0	.0	1.7	.0	89.1
E	1.3	1.1	.4	.0	.0	.0	.0	2.8	2.4	3.2	.3	.0	2.0	.0	89.1
SE	2.5	.4	.2	.0	.0	.0	.0	3.5	2.0	5.2	.1	.0	2.2	.0	87.5
S	2.7	2.0	1.2	.1	.0	.0	.0	5.6	3.4	4.5	.6	.0	3.7	.0	81.9
SW	2.5	2.1	1.0	.1	.0	.0	.0	5.5	4.0	4.4	.2	.0	2.1	.2	83.6
W	3.0	2.2	1.3	.1	.0	.0	.0	6.5	3.1	4.6	.0	.0	1.6	.0	80.3
NW	1.3	1.1	.4	.0	.0	.0	.1	3.0	1.6	3.8	.2	.0	4.3	.1	87.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.3	.3	.2	.0	.0	.0	.0	.8	1.0	5.7	.1	.0	8.7	.2	83.6
TOT PCT	1.8	1.2	.5	.0	.0	.0	*	3.5	2.4	4.1	.2	.0	3.9	*	85.9
TOT OBS:	8760														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER 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	1.1	.7	.3	.0	.0	.0	*	2.1	1.4	1.2	.2	.0	3.9	.0	91.4
04-07	1.4	.5	.4	.0	.0	.0	.0	2.2	1.5	12.2	.2	.0	4.3	*	79.3
12-15	3.0	2.0	.8	.0	.0	.0	.0	5.4	3.9	3.9	.2	.0	4.1	.1	82.3
16-23	1.7	1.5	.6	.0	.0	.0	.0	3.7	2.6	.4	.2	.0	3.4	*	89.7
TOT PCT	1.8	1.2	.5	.0	.0	.0	*	3.5	2.4	4.3	.2	.0	3.9	*	85.8
TOT OBS:	8760														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)					
WND DIR	0-3	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	5.4	.7	*	.0	.0		8.5	5.8	4.5	5.1	5.3	7.4	14.0	8.9	10.7	5.4
NE	1.7	7.6	2.3	.2	*	.0		11.7	8.6	6.0	5.2	7.9	6.8	14.6	15.3	16.3	12.1
E	2.6	12.8	5.6	.4	*	.0		21.2	9.0	22.6	19.3	17.4	16.9	19.2	17.7	24.5	26.0
SE	2.1	9.2	2.5	.1	.0	.0		12.5	7.8	18.4	18.1	15.6	19.0	7.3	11.0	9.6	13.9
S	1.5	4.6	1.1	.0	*	.0		7.2	7.0	9.7	11.6	8.0	8.6	5.4	9.2	5.1	8.9
SW	1.3	4.3	1.3	*	*	.0		7.0	7.4	8.4	13.9	7.5	11.1	5.8	6.6	5.1	7.5
W	1.9	5.5	1.3	.1	.0	.0		9.2	7.0	9.9	12.3	10.3	10.1	8.4	11.0	7.6	9.8
NW	1.8	5.5	.7	*	.0	.0		8.0	6.2	8.0	6.7	6.7	5.9	10.3	13.5	8.7	9.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	14.3							14.3	.0	12.3	7.8	23.2	12.2	16.0	6.8	10.5	6.4
TOT OBS	2754	5052	1446	78	3	0	9337		6.5	2160	153	2258	188	2035	234	2312	202
TOT PCT	29.5	54.1	15.5	.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	5.7	2.7	.1	.0	.0		8.5	5.8	4.5	5.5	13.4	10.2
NE	5.4	5.6	.6	.1	.0		11.7	8.0	7.8	6.0	14.7	16.0
E	8.7	11.2	1.6	.1	.0		21.2	9.0	22.4	17.3	18.1	26.4
SE	6.0	6.4	.5	.1	.0		12.9	7.8	18.4	15.9	7.7	9.9
S	4.0	3.0	.1	*	.0		7.2	7.0	9.8	8.1	5.8	5.4
SW	3.7	3.0	.1	*	.0		7.0	7.4	6.9	7.9	5.6	5.3
W	5.2	3.6	.4	.0	.0		9.2	7.0	10.1	10.3	8.7	7.8
NW	5.2	2.8	.1	.0	.0		8.0	6.2	6.1	9.6	10.6	6.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	14.3						14.3	.0	12.0	20.4	15.1	10.1
TOT OBS	5396	3568	354	19	0	9337		6.5	2313	2246	2264	2514
TOT PCT	57.8	38.2	3.8	.2	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1957-1976
(OVER-ALL) 1963-1976

AREA 0009 GUATEMALA S= COAST
13.6N 91.0W

TABLE 5

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
0103	12.0	34.4	37.2	16.4	.5	.0	.0	6.7	100.0	2737
0406	20.	36.2	32.6	10.1	.7	.0	.1	5.4	100.0	2246
0709	15.1	36.2	34.0	13.6	1.1	*	.0	6.2	100.0	2244
1012	10.2	34.8	32.4	22.4	1.4	.1	*	7.5	100.0	2519
TOT	1332	3426	5052	1446	78	3	0	6.5		9537
PCT	14.3	35.3	34.1	15.5	.8	*	.0		100.0	

TABLE 6

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

WND DIR	0-2	3-4	5-7	8 OVC	TOTAL OBS	MEAN CLOUD COVER
N	3.8	3.9	3.7	3.4		4.9
NE	2.0	2.9	4.6	2.1		4.8
E	4.5	4.6	8.1	3.1		4.5
SE	3.2	2.3	4.6	2.1		4.6
S	3.9	3.5	3.0	1.4		4.0
SW	.0	1.2	2.9	1.4		4.4
W	1.6	1.8	3.5	1.9		4.9
NW	3.7	3.6	3.7	1.3		4.7
VAR	.0	.0	.1	.0		.0
CALM	4.6	3.6	4.8	1.9		4.0
TOT OBS	1894	1464	2707	1737	7104	4.7
TOT PCT	23.7	21.1	34.1	17.1	100.0	

TABLE 7

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,AM >A/B) AT OCCURRENCE OF AM <5/8 BY WIND DIRECTION

WND DIR	0-100	101-200	201-300	301-500	501-1000	1001-2000	2001-3500	3501-5000	5001-6500	6501-8000	8000+	AM <5/8 ANY HGT	TOTAL OBS
N	1.1	*	.1	.4	.8	.4	.2	*	*	.1	6.6		
NE	.1	*	.1	.7	1.0	.4	.2	.1	.1	.1	4.7		
E	.1	.1	.2	1.7	1.6	.4	.4	.1	.1	.2	16.4		
SE	.1	*	.1	.4	1.1	.4	.3	.1	.1	.1	9.5		
S	*	*	.2	.2	.7	.2	.1	*	*	.1	5.6		
SW	.1	*	.1	.7	.6	.4	.1	.1	*	*	4.7		
W	.1	.1	.1	.4	1.2	.4	.7	.1	*	*	6.2		
NW	*	.1	.1	.5	.4	.1	.1	.1	*	*	5.8		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	*	*	*	.6	.6	.4	.1	.1	.1	.1	12.6		
TOT OBS	41	21	78	405	644	266	129	43	31	50	5379	7104	
TOT PCT	.6	.3	1.1	5.7	9.1	4.0	1.8	.6	.4	.7	75.7	100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (AM >A/B) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) >10	>5	>2	>1	>1/2	>1/4	>500'0	>0
>= OR >6500	1.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2
>= OR >5000	1.5	1.8	1.8	1.8	1.8	1.8	1.8	1.8
>= OR >3500	3.0	3.5	3.6	3.6	3.6	3.6	3.6	3.6
>= OR >2000	6.5	7.4	7.5	7.5	7.5	7.5	7.5	7.5
>= OR >1000	13.6	16.1	16.4	16.5	16.5	16.5	16.5	16.5
>= OR >600	18.1	21.5	22.0	22.1	22.1	22.1	22.1	22.1
>= OR >300	18.8	22.4	23.0	23.1	23.2	23.2	23.2	23.2
>= OR >150	19.0	22.7	23.3	23.4	23.5	23.5	23.5	23.5
>= OR > 0	19.2	23.2	23.9	24.0	24.0	24.0	24.0	24.0
TOTAL	1416	1701	1750	1758	1761	1762	1762	1762

TOTAL NUMBER OF OBS: 7728 PCT FREQ AM <5/8: 76.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
15.1	15.8	18.2	15.7	11.2	6.9	6.5	4.7	6.1	.2	7743

PERIOD: (PRIMARY) 1953-1979
(SUMMARY) 1961-1979

AREA CODE GUATEMALA'SW COAST
11.4N 91.0W

TABLE 4

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

VIS (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.1	.	.	.	.	.0	.0	.0	.0	.	
	NO PCP	.	.1	.0	.0	.0	.0	.0	.	.0	.0	.	
	TOT %	.	.2	.	.	.	.	.0	.	.0	.0	.	
1/2<1	PCP	.0	.0	.0	.0	.0	.	.	.	.0	.0	.	
	NO PCP	.0	.1	.	.0	.0	.0	.	.	.0	.0	.	
	TOT %	.0	.1	.	.0	.0	.	.	.	.0	.0	.	
1<2	PCP	.	.	.	.	.	.	.	.	.0	.	.2	
	NO PCP	.0	.1	.	.	.	.0	.	.	.0	.	.1	
	TOT %	.	.1	.	.	.	.	.	.	.0	.	.3	
2<5	PCP	.1	.1	.1	.1	.1	.1	.1	.1	.0	.	.5	
	NO PCP	.1	.1	.1	.1	.1	.1	.1	.1	.0	.	.5	
	%	.1	.1	.1	.1	.1	.1	.1	.1	.0	.	1.0	
5<10	PCP	.1	.1	.3	.1	.1	.1	.2	.1	.1	.1	1.1	
	NO PCP	1.6	1.7	1.7	1.0	.7	.5	1.0	.5	.1	1.8	9.6	
	TOT %	1.8	1.8	2.0	1.1	.8	.7	1.2	.5	.1	1.9	10.8	
10+	PCP	.1	.2	.3	.2	.2	.2	.3	.1	.1	.	1.6	
	NO PCP	7.1	10.2	19.2	11.3	6.1	5.8	7.4	6.6	.5	12.6	86.6	
	TOT %	7.2	10.4	19.5	11.6	6.3	5.9	7.6	7.7	.6	12.8	88.2	
	TOT OBS												5760
	TOT PCT	9.5	11.7	21.6	12.9	7.2	6.9	9.0	8.0	.6	14.3	100.0	

TABLE 9

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

VIS (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	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.	.	.	.	.	.	.	.	.0	.0	.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.	.	
	4-10	.0	.0	.0	.0	.0	.0	.0	.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	.	.	
1<2	0-3	.0	.1	.1	.	.	.	.	.	.0	.	.3	
	4-10	.0	.	.	.	.	.	.	.	.0		.1	
	11-21	.0	.	.	.	.	.	.	.	.0		.1	
	22+	.0	.	.	.	.	.	.	.	.0		.0	
	TOT %	.0	.1	.1	.0	.	.	.	.	.0	.	.5	
2<5	0-3	.1	.	.1	.	.1	.	.1	.	.0	.	.3	
	4-10	.1	.	.1	.1	.1	.1	.1	.1	.0		.6	
	11-21	.0	.	.1	.1	.1	.1	.1	.1	.0		.6	
	22+	.0	.	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.1	.2	.1	.2	.2	.2	.2	.0	.	1.5	
5<10	0-3	.2	.1	.2	.2	.1	.2	.2	.1	.1	1.8	3.4	
	4-10	.5	.3	.7	.4	.3	.3	.3	.3	.0		2.7	
	11-21	.3	.2	.3	.2	.2	.2	.2	.2	.0		1.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	1.0	.6	1.2	.8	.6	.7	.7	.6	.1	1.8	7.8	
10+	0-3	2.0	1.5	2.3	1.5	1.3	1.1	1.4	1.1	.1	12.4	25.6	
	4-10	4.6	6.7	11.8	7.5	4.1	3.6	4.6	4.8	.3		48.5	
	11-21	1.5	2.0	4.6	2.2	1.0	1.0	1.5	1.2	.1		15.1	
	22+	.2	.1	.3	.1	.0	.0	.1	.1	.0		.8	
	TOT %	7.4	10.3	19.2	11.6	6.3	6.0	7.6	7.3	.5	12.4	87.8	
	TOT OBS												9360
	TOT PCT	8.5	11.6	21.4	12.4	7.2	7.0	9.1	8.0	.6	14.2	100.0	

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1861-1979

AREA 0009 GUATEMALA SW COAST
11.6N 91.0W

TABLE 10

PERCENT FREQUENCY O 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	.4	.1	.6	4.2	6.4	3.2	1.7	.4	.5	1.0	18.6	81.4	2055
06E09	.1	.2	.5	4.5	6.7	3.3	1.1	.5	.5	.5	16.6	83.4	1753
12E15	.6	.5	1.7	6.6	11.2	4.0	1.9	.6	.1	.6	27.8	72.2	1865
18E21	.5	.3	1.3	6.1	10.5	4.6	2.1	.8	.6	.8	27.5	72.5	1975
TOT	41	22	79	410	664	289	132	44	32	56	1769	5879	7648
PCT	.5	.3	1.0	5.4	9.7	3.8	1.7	.6	.4	.7	23.1	76.9	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	*	*	.3	.9	7.4	91.4	2339
06E09	.1	.0	.3	.8	10.7	88.5	2281
12E15	.2	.1	.5	2.1	14.1	83.1	2284
18E21	.2	*	.4	1.3	9.7	88.3	2472
TOT	13	4	34	117	972	8240	9380
PCT	.1	*	.4	1.2	10.4	87.8	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NM <5/8 AND 5+	TOTAL OBS
00E03	.5	1.3	6.2	13.6	80.2	1960
06E09	.8	1.5	6.9	12.8	80.3	1679
12E15	.6	3.1	11.2	14.7	70.5	1784
18E21	.5	2.2	9.0	19.5	71.5	1905
TOT	43	143	609	1179	5540	7328
PCT	.6	2.0	8.3	16.1	75.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	*	*	*	.0	.0	4	.1
90/94	.0	.0	*	.2	1.4	.7	.1	*	179	2.4
85/89	.0	.0	*	.2	5.7	17.5	4.6	.6	2096	28.6
80/84	.0	.0	.0	.1	2.4	25.1	30.7	4.9	4634	63.2
75/79	.0	.0	.0	.0	*	.4	2.6	2.7	415	5.7
70/74	.0	.0	.0	.0	.0	.0	*	.1	6	.1
TOTAL	0	0	3	38	705	3196	2788	604	7334	100.0
PCT	.0	.0	*	.5	9.6	43.6	38.0	8.2		

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
.2	.3	.5	.2	.1	.1	.2	.5	.0	.4
2.8	3.1	6.4	3.3	1.6	1.3	2.6	2.6	.0	4.8
4.9	7.4	13.8	8.3	4.6	4.8	5.4	4.3	.0	9.6
.5	.8	1.1	.6	.5	.6	.7	.4	.0	.4
.0	*	*	*	.0	.0	.0	.0	.0	*
8.5	11.6	21.8	12.4	6.9	6.8	9.0	7.7	.0	15.2

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	95	90	88	84	80	78	74	84.0	2344
06E09	92	87	86	82	79	77	73	82.5	2342
12E15	90	88	85	82	78	75	73	82.1	2312
18E21	97	92	90	85	80	77	71	85.1	2552
TOT	97	91	88	83	79	77	71	83.5	9570

TABLE 16

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	.6	11.4	52.6	29.6	5.6	77	1942
06E09	.0	.2	3.7	38.6	48.7	8.8	81	1845
12E15	.0	.1	2.7	34.0	50.1	13.1	82	1853
18E21	.0	1.2	19.9	48.5	24.6	5.9	76	1948
TOT	0	43	729	3309	2880	627	79	7588

PERIOD (PRIMARY) 1953-1979
(OVER-ALL) 1861-1979

AREA 0009 GUATEMALA SW COAST
11.8N 91.0W

TABLE 17

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

AIR-SEA TMP DIF	69 or 72	73 to 76	77 to 80	81 to 84	85 to 88	89 to 92	>92	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.1	.0	*	.0	2	.0	*
14/16	.0	.0	.0	.0	*	*	.0	6	.0	.1
11/13	.0	.0	.0	*	.1	.1	*	14	.0	.2
9/10	.0	.0	.0	.1	.1	.1	*	27	.0	.3
7/8	.0	.0	*	.1	.3	.5	.1	81	.0	1.0
6	.0	.0	.0	.1	.4	.3	*	74	.0	.9
5	.0	.0	.0	.3	.6	.7	*	147	.0	1.8
4	.0	.0	*	.4	1.2	.6	*	221	*	2.6
3	.0	.0	.1	.7	1.4	.6	*	226	*	2.7
2	.0	.0	.1	2.1	3.5	.5	.0	508	*	6.1
1	.0	.0	.1	2.9	3.5	.4	.0	573	*	6.9
0	.0	*	.5	8.3	5.2	.2	.0	1179	*	14.1
-1	.0	*	.7	8.0	4.7	*	.0	1116	.1	13.4
-2	.0	*	1.3	11.5	2.8	.1	.0	1306	*	15.7
-3	.0	*	1.3	8.1	1.5	*	.0	905	*	10.9
-4	.0	*	1.8	7.5	.4	.0	.0	808	*	9.7
-5	.0	*	1.6	4.0	.3	.0	.0	493	.0	5.9
-6	.0	.1	1.4	1.7	.1	.0	.0	274	.0	3.3
-7/-8	*	.1	1.3	1.2	.1	.0	.0	228	.0	2.7
-9/-10	.0	.2	.5	.3	*	.0	.0	77	.0	.9
-11/-13	*	.2	.2	*	.0	.0	.0	39	.0	.5
-14/-18	.0	.0	*	*	.0	.0	.0	4	.0	*
TOTAL	2	60	913	4761	2196	340	20	8314	18	8296
PCT	*	.7	11.0	57.5	26.4	4.1	.2	100.0	.2	99.8

PERIOD (OVER-ALL) 1962-1979

TABLE 18

PCT FREQ OF 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	1.7	.0	.0	.0	.0	2.8
1-2	.3	2.8	.1	.0	.0	.0	3.2
3-4	.1	.5	.1	.0	.0	.0	.8
5-6	.0	.2	.2	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
25-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	5.2	.5	.0	.0	.0	7.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	1.9	*	.0	.0	.0	2.8
1-2	.4	4.3	1.4	.0	.0	.0	6.2
3-4	*	1.8	1.4	.1	.0	.0	3.3
5-6	*	.4	.7	.0	.0	.0	1.1
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	8.4	3.8	.2	.0	.0	13.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	2.6	.2	.0	.0	.0	3.7
1-2	.4	6.2	1.6	.0	.0	.0	8.2
3-4	.4	3.5	2.9	.2	.0	.0	6.9
5-6	.1	.8	1.4	.2	.0	.0	2.5
7	.0	.2	.8	.2	.0	.0	1.2
8-9	.0	.0	.2	.1	.0	.0	.3
10-11	.0	.0	.1	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.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	13.2	7.1	.7	.0	.0	22.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.3	.2	.0	.0	.0	2.1
1-2	.6	4.3	1.1	.0	.0	.0	6.1
3-4	.1	1.7	1.3	.1	.0	.0	3.2
5-6	.1	.4	.2	*	.0	.0	.7
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	7.8	3.0	.1	.0	.0	12.2

MAY

PERIOD: (OVER-ALL) 1963-1979 AREA 0009 GUATEMALA Sh COAST

TABLE 18 (CONT) 11.6N 91.0W

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.2	.1	.0	.0	.0	1.9
1-2	.2	2.9	.6	.0	.0	.0	3.7
3-4	.2	1.1	.3	.0	.0	.0	1.6
5-6	*	.1	.1	.0	.0	.0	.2
7	.0	.1	.1	.0	.0	.0	.2
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	1.0	5.5	1.2	.0	.0	.0	7.8

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.7	*	.0	.0	.0	1.2
1-2	.4	2.8	.2	.0	.0	.0	3.5
3-4	.1	1.1	.6	.0	.0	.0	1.8
5-6	*	.1	.4	*	.0	.0	.6
7	.0	.0	*	*	.0	.0	*
8-9	.0	*	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	4.8	1.3	*	.0	.0	7.2

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.9	.0	.0	.0	.0	2.6
1-2	.5	3.1	.4	.0	.0	.0	4.0
3-4	.0	1.2	.7	.0	.0	.0	1.9
5-6	.0	.1	.1	*	.0	.0	.2
7	.0	.0	.1	.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	1.2	6.3	1.3	.1	.0	.0	9.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.8	1.1	.0	.0	.0	.0	2.0	
1-2	.4	2.4	.2	.0	.0	.0	3.0	
3-4	.1	1.0	.2	.0	.0	.0	1.2	
5-6	.0	.2	.1	.0	.0	.0	.3	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.2	4.8	.5	.0	.0	.0	6.5	86.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	20.5	12.4	.4	.0	.0	.0	33.3	
1-2	4.4	28.1	5.5	.0	.0	.0	38.1	
3-4	1.1	11.5	7.3	.3	.0	.0	20.1	
5-6	.2	2.2	3.1	.3	.0	.0	5.8	
7	.0	.2	1.3	.3	.0	.0	1.9	
8-9	.0	.1	.3	.2	.0	.0	.6	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	26.3	54.6	18.0	1.1	.0	.0	100.0	1404

PERIOD: (OVER-ALL) 1949-1979 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	7.2	15.5	15.7	5.6	1.6	.5	.2	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	3267	3
6-7	.2	2.6	7.2	5.5	2.1	.5	.3	*	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	1227	4
8-9	*	1.2	3.3	3.2	1.1	.6	.3	.1	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	592	5
10-11	.0	1.1	1.3	1.2	.4	.1	.1	.0	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	286	5
12-13	.0	.0	1.0	.7	.3	.1	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	134	5
>13	.0	.0	.0	.3	.3	.1	.1	*	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	51	7
INDET	10.3	1.7	2.6	1.0	.3	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1070	1
TOTAL	1180	1666	2062	1089	405	132	59	9	18	2	5	0	0	0	0	0	0	0	0	6627	3
PCT	17.8	25.1	31.1	16.4	6.1	2.0	.9	.1	.3	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1953-1976
(OVER-ALL) 1871-1976

APEA 0009 GUATEMALA SW COAST
11.8N 91.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.6	1.7	1.3	.0	.0	.0	.0	5.5	3.7	4.3	.2	.0	.3	.1	86.2
NE	3.1	2.4	.4	.0	.0	.0	.0	6.0	4.6	4.6	.1	.0	.2	.0	84.7
E	3.1	2.7	1.6	.0	.0	.0	.0	6.7	3.9	5.4	.0	.0	.4	.0	83.9
SE	2.7	3.7	1.3	.0	.0	.0	.0	7.3	4.8	6.7	.0	.0	.2	.0	81.4
S	6.1	4.7	1.2	.0	.0	.0	.0	12.0	5.4	5.5	.2	.0	.3	.2	76.8
SW	7.3	3.8	2.1	.0	.0	.0	.0	12.8	4.5	5.3	.1	.0	.0	.0	79.5
W	5.7	3.1	1.3	.0	.0	.0	.1	10.1	6.1	3.1	.2	.0	.3	.0	80.3
NW	3.9	2.6	1.1	.0	.0	.0	.0	7.3	5.0	4.5	*	.0	.5	.2	82.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.6	.4	.5	.0	.0	.0	.0	1.9	2.1	7.3	.2	.0	.6	.0	87.9
TOT PCT	3.9	2.9	1.1	.0	.0	.0	*	7.8	4.5	5.0	.1	.0	.3	*	82.6
TOT OBS:	8371														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00E03	2.4	1.7	.6	.0	.0	.0	.0	4.9	3.3	.8	.1	.0	.1	*	90.7
06E09	3.2	2.3	.7	.0	.0	.0	.0	6.1	2.8	15.9	*	.0	.5	.0	75.0
12E15	5.7	3.6	1.6	.0	.0	.0	*	10.8	6.8	4.6	.2	.0	.3	*	77.9
18E21	4.1	3.7	1.2	.0	.0	.0	.0	8.9	4.9	.6	*	.0	.3	*	85.4
TOT PCT	3.9	2.9	1.1	.0	.0	.0	*	7.7	4.5	5.2	.1	.0	.3	*	82.4
TOT OBS:	8591														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	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	4.7	.9	*	.0	.0		7.3	6.7	5.3	5.9	5.9	9.1	10.1	6.3	8.1	9.6
NE	1.2	7.3	2.3	.1	*	.0		10.9	8.3	8.0	5.9	7.8	12.9	13.1	11.4	14.5	11.8
E	1.7	12.5	7.7	.4	*	*		22.4	10.0	22.6	19.5	18.6	18.4	21.5	22.1	27.1	19.7
SE	1.3	7.7	3.9	.2	*	.0		13.1	9.3	15.0	17.2	15.9	14.1	10.2	11.6	10.3	15.2
S	1.0	4.7	2.0	.2	*	.0		7.8	8.9	5.9	6.2	6.4	8.6	7.1	6.2	7.1	8.6
SW	1.1	5.4	3.3	.2	*	*		10.1	9.7	11.2	7.1	10.6	6.9	9.6	10.4	9.1	10.7
W	1.3	6.9	3.6	.3	.0	.0		12.5	9.6	14.6	17.4	13.1	11.2	11.2	14.0	10.8	11.5
NW	1.4	5.1	1.3	.1	*	.0		7.9	7.6	7.2	10.6	7.5	9.3	8.6	10.2	8.1	5.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.0							8.0	.0	6.3	10.8	12.2	11.6	8.6	7.8	4.9	7.2
TOT OBS	1659	4845	2249	133	9	1	8895		6.3	2009	158	1935	190	1949	243	2189	223
TOT PCT	18.7	54.5	25.3	1.5	.1	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.3	2.9	.1	*	.0		7.3	6.7	5.3	5.7	9.7	8.2
NE	4.6	5.5	.6	*	.0		10.9	8.3	7.8	8.3	12.9	14.3
E	6.7	13.1	2.3	.1	*		22.4	10.0	22.3	18.5	21.6	26.5
SE	4.9	7.1	1.1	.1	.0		13.1	9.3	16.1	15.7	10.3	10.8
S	3.4	3.7	.6	.1	.0		7.8	8.9	8.7	8.4	7.0	7.3
SW	3.4	5.5	1.1	*	.0		10.1	9.7	10.9	10.6	9.7	9.2
W	4.5	6.8	1.2	*	.0		12.5	9.6	14.3	12.9	11.5	10.8
NW	4.1	3.5	.4	*	*		7.9	7.6	7.4	7.6	8.8	7.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	8.0						8.0	.0	6.6	12.1	8.5	5.1
TOT OBS	3918	4282	657	35	3	8895		8.3	2166	2127	2192	2412
TOT PCT	44.0	48.1	7.4	.4	*		100.0		100.0	100.0	100.0	100.0

JUNE

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1871-1979

AREA 0009 GUATEMALA SW COAST
11.8N 91.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00E03	6.6	10.6	55.2	26.1	1.3	.0	.0	8.4	100.0	2166
06E09	12.1	11.3	56.6	18.7	1.0	.1	.0	7.3	100.0	2125
12E15	8.5	11.2	53.1	25.5	1.6	.1	*	8.3	100.0	2192
18E21	5.1	9.6	53.1	30.1	1.9	.2	.0	9.1	100.0	2412
TOT	710	949	4845	2248	133	9	1	8.3		8495
PCT	8.0	10.7	54.5	25.3	1.5	.1	*		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.1	1.5	3.1	1.8		5.3
NE	1.5	2.4	4.4	2.5		5.3
E	3.1	4.4	10.0	4.6		5.3
SE	1.8	2.3	5.7	3.1		5.4
S	.7	1.2	3.6	2.6		5.9
SW	.8	1.5	4.4	3.5		6.0
W	1.0	2.2	5.7	4.2		5.5
NW	1.0	1.5	3.1	2.2		5.5
VAR	.0	.0	.0	.0		.0
CALM	1.6	2.1	2.8	1.1		4.6
TOT OBS	862	1334	2882	1756	6836	5.5
TOT PCT	12.6	19.6	42.2	25.7	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	.1	.2	.7	.9	.3	.1	*	.0	*	5.2	
NE	*	*	.2	1.0	1.7	.5	.2	.1	*	.1	7.4	
E	.2	.1	.4	1.8	2.6	.9	.4	.1	.1	.1	15.7	
SE	.1	.1	.4	1.2	1.4	.7	.2	.1	.1	*	8.7	
S	.1	*	.4	.7	1.3	.4	.1	*	.0	.0	5.0	
SW	.1	.1	.5	1.2	1.4	.5	.1	.1	*	*	6.1	
W	.2	.1	.4	1.6	2.0	.7	.2	*	*	.1	7.2	
NW	*	.1	.2	.7	1.0	.3	.2	*	*	*	5.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	*	.1	.5	.7	.3	.1	.0	.0	*	5.4	
TOT OBS	55	45	196	645	849	324	114	33	20	19	4534	6836
TOT PCT	.3	.7	2.9	9.4	12.4	4.8	1.7	.5	.3	.3	66.3	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 >5010	= OR >0
= OR >6500	.5	.6	.6	.6	.6	.6	.6	.6
= OR >5000	.9	1.1	1.1	1.1	1.1	1.1	1.1	1.1
= OR >3500	2.3	2.6	2.7	2.7	2.7	2.7	2.7	2.7
= OR >2000	6.2	7.2	7.3	7.4	7.4	7.4	7.4	7.4
= OR >1000	18.5	19.3	19.7	19.8	19.8	19.8	19.8	19.8
= OR >600	23.3	29.1	28.4	29.0	29.0	29.0	29.0	29.0
= OR >300	29.7	31.6	31.5	31.7	31.8	31.4	31.8	31.8
= OR >150	95.1	31.0	32.1	32.2	32.4	32.6	32.5	32.5
= OR > 0	25.3	31.5	32.7	33.0	33.1	33.2	33.3	33.3
TOTAL	1 96	2200	2285	2309	2313	2324	2326	2326

TOTAL NUMBER OF OBS: 6995 PCT FREQ NH <5/8: 66.7

TABLE 13

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
6.2	12.2	18.3	16.5	17.3	8.0	8.3	6.4	10.2	.5	7468

PERIOD: (PRIMARY) 1953-1976
(OVERALL) 1871-1976

AREA 0009 GUATEMALA SW COAST
11.8N 91.0W

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.	*	*	.0	*	*	*	.0	*	.2	
	NO PCP	.0	.0	*	*	.0	*	.0	0	.0	.0	*	
	TOT %	.0	.0	.1	*	.0	.1	*	*	.0	*	.2	
1/2<1	PCP	.0	.0	*	.0	*	*	*	*	.0	.0	.1	
	NO PCP	.0	.0	*	.0	.0	*	*	.0	.0	.0	*	
	TOT %	.0	.0	*	.0	*	*	*	*	.0	.0	.1	
1<2	PCP	*	*	.1	*	.1	.1	*	*	.0	*	.4	
	NO PCP	.0	*	*	*	*	*	*	*	.0	.0	.1	
	TOT %	*	*	.1	*	.1	.1	.1	*	.0	*	.5	
2<5	PCP	*	.1	.2	.1	.1	.2	.2	.1	.0	.0	1.0	
	NO PCP	*	.1	.2	.1	*	.1	.1	.1	.0	*	.8	
	TOT %	.1	.2	.4	.2	.1	.3	.3	.1	.0	*	1.8	
5<10	PCP	.2	.3	.5	.4	.3	.4	.5	.2	.0	.1	2.9	
	NO PCP	.4	.8	1.5	.6	.7	.6	1.1	.6	.0	.3	7.2	
	TOT %	.6	1.1	1.9	1.0	1.0	1.2	1.6	.8	.0	.4	10.1	
10+	PCP	.2	.2	.6	.4	.4	.6	.5	.2	.0	*	3.2	
	NO PCP	6.5	9.4	19.5	11.1	6.2	6.0	9.9	6.6	.0	7.0	84.2	
	TOT %	6.7	9.6	20.1	11.5	6.6	8.5	10.4	6.8	.0	7.1	87.4	
	TOT OBS												8344
	TOT PCT	7.4	10.6	22.7	13.1	7.9	10.2	12.5	7.8	.0	7.5	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	*	.0	*	.0	.0	.0	*	*	
	4-10	.0	.0	*	*	.0	*	*	*	.0		.1	
	11-21	.0	.0	*	*	.0	*	*	*	.0		.1	
	22+	.0	.0	*	.0	.0	*	.0	.0	.0		*	
	TOT %	.0	.0	.1	*	.0	.1	*	*	.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		*	
	11-21	.0	.0	*	*	*	*	*	*	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.0	*	*	*	*	*	*	.0	.0	.2	
1<2	0-3	*	.0	.0	.0	.0	.0	.0	*	.0	*	*	
	4-10	*	.0	*	*	*	*	*	*	.0		.1	
	11-21	.0	*	.1	.0	*	*	*	*	.0		.2	
	22+	.0	*	*	*	*	.0	.0	.0	.0		*	
	TOT %	*	*	.1	*	.1	.1	.1	*	.0	*	.5	
2<5	0-3	*	*	*	*	*	*	*	*	.0	*	.2	
	4-10	*	.1	.2	.1	*	.2	.1	.1	.0		.6	
	11-21	.0	.1	.2	.1	.1	.1	.2	*	.0		.8	
	22+	*	*	*	*	*	*	*	*	.0		.1	
	TOT %	.1	.2	.4	.3	.2	.3	.3	.1	.0	*	2.0	
5<10	0-3	.1	.1	.1	.1	*	.1	.1	.1	.0	.4	1.1	
	4-10	.4	.5	.9	.7	.5	.5	.7	.5	.0		4.6	
	11-21	.1	.5	.8	.5	.4	.4	.6	.2	.0		3.7	
	22+	.0	.1	.1	*	.1	.1	.1	*	.0		.5	
	TOT %	.6	1.1	1.9	1.3	1.0	1.2	1.6	.8	.0	.4	9.9	
10+	0-3	1.5	1.1	1.6	1.2	.9	1.0	1.1	1.2	.0	7.3	16.9	
	4-10	4.3	6.7	11.5	6.9	4.2	4.8	6.0	4.5	.0		48.9	
	11-21	.8	1.7	6.8	3.3	1.4	2.5	3.1	1.1	.0		20.5	
	22+	*	.1	.3	.2	.1	.1	.2	*	.0		.9	
	TOT %	6.6	9.6	20.0	11.5	6.5	8.5	10.5	6.8	.0	7.3	87.3	
	TOT OBS												8653
	TOT PCT	7.3	10.9	22.5	13.1	7.8	10.1	12.5	7.9	.0	7.8	100.0	

PERIOD: (PRIMARY) 1951-1979
(OVER-ALL) 1871-1979

AREA 0009 GUATEMALA SW COAST
11.8N 91.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,WW >W/B) AND OCCURRENCE OF WW <S/B BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	WW <S/B ANY HGT	TOTAL OBS
00E03	.5	.4	1.8	6.4	10.0	5.9	2.1	.5	.2	.4	26.2	73.5	1921
06E09	.9	.3	2.6	7.8	10.5	4.2	1.3	.2	.4	.3	28.5	71.5	1662
12E15	1.0	1.0	3.8	11.1	13.7	4.8	1.0	.4	.1	.1	37.0	63.0	1837
18E21	.6	.7	2.6	10.4	13.4	5.2	1.6	.7	.5	.4	36.4	63.6	1887
TOT	55	46	198	692	870	331	114	34	20	22	2342	4965	7307
PCT	.8	.6	2.7	8.9	11.9	4.5	1.6	.5	.3	.3	32.1	67.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.0	.0	.2	1.6	7.2	90.9	2182
06E09	.3	.2	.3	1.5	10.0	87.7	2135
12E15	.5	.3	.6	3.1	12.5	83.0	2189
18E21	.3	.1	.1	1.6	9.8	87.5	2376
TOT	25	13	40	174	879	7751	8882
PCT	.3	.1	.5	2.0	9.9	87.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,WW >W/B),BY HOUR

HOUR (GMT)	<150 <500YD	<600 <1	<1000 <2	1000+ AND5+	WW <S/B AND 5+	TOTAL OBS
00E03	.5	2.9	10.2	17.2	72.6	1837
06E09	1.0	4.1	13.0	17.6	69.5	1572
12E15	1.1	6.1	18.5	20.3	61.2	1759
18E21	.7	4.2	15.7	21.9	62.3	1827
TOT	57	392	1095	1350	4640	6995
PCT	.8	4.3	14.4	19.2	66.3	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	*	.1	.7	.3	.1	.0	86	1.2
85/89	.0	.0	.0	.1	2.3	10.0	2.4	.4	1057	15.2
80/84	.0	.0	.0	.1	1.5	22.6	35.0	6.7	4797	68.8
75/79	.0	.0	.0	.0	*	.6	7.1	7.6	1008	14.4
70/74	.0	.0	.0	.0	.0	.0	*	.4	26	.4
TOTAL	0	0	1	17	320	2235	3245	1052	6970	100.0
PCT	.0	.0	*	.2	4.6	33.5	46.6	15.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.1	.2	.3	.2	.1	*	.2	.2	.0	.1
	1.5	2.0	4.2	1.7	.8	.7	1.6	1.4	.0	1.3
	4.6	7.2	15.7	9.5	5.3	6.9	8.2	5.0	.0	6.1
	.8	1.2	2.2	1.5	1.7	2.7	2.6	1.1	.0	.6
	*	*	*	.1	*	.1	*	.1	.0	*
	7.4	10.6	22.4	12.9	8.0	10.4	12.5	7.8	.0	8.1

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	95	89	87	82	78	75	71	82.6	2200
06E09	90	86	84	82	78	75	69	81.4	2199
12E15	95	86	84	81	77	74	70	80.8	2216
18E21	95	91	89	84	78	76	73	83.5	2461
TOT	95	90	87	82	77	75	69	82.1	9048

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-59	30-49	50-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.1	5.2	41.2	42.9	10.6	80	1921
06E09	.0	.0	1.9	25.9	55.8	16.6	83	1716
12E15	.0	.2	1.6	20.8	55.6	21.8	84	1789
18E21	.0	.7	9.4	45.0	33.9	11.6	79	1838
TOT	0	18	327	2394	3345	1090	82	7164

PERIOD: (PRIMARY) 1963-1979
(OVER-ALL) 1971-1979

AREA 0009 GUATEMALA SW COAST
11.8N 91.0W

TABLE 17

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

AIR-SEA TMP DIF	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	*	.0	*	5	.0	.1
9/10	.0	.0	.0	.1	*	.1	*	19	.0	.2
7/8	.0	.0	*	.2	.3	.3	.1	65	.0	.8
6	.0	.0	.0	.1	.3	.2	.0	44	.0	.6
5	.0	.0	.1	.2	.7	.4	.1	110	.0	1.4
4	.0	.0	*	.6	1.2	.4	.0	178	*	2.3
3	.0	.0	.1	.9	1.5	.1	.0	201	.0	2.6
2	.0	.0	.3	2.9	2.2	.2	.0	433	.0	5.5
1	.0	.0	.3	3.8	2.3	.1	.0	504	.0	6.4
0	.0	*	1.0	9.6	2.5	.1	.0	1035	.0	13.2
-1	.0	*	1.3	9.2	1.6	.0	.0	955	.0	12.2
-2	.0	.1	2.7	11.3	.9	.0	.0	1172	*	14.9
-3	.0	.1	3.2	7.9	.2	.0	.0	893	.0	11.4
-4	.0	.1	4.1	6.6	.1	.0	.0	860	*	11.0
-5	.0	.1	3.5	3.4	.1	.0	.0	564	.0	7.2
-6	*	.3	2.6	1.1	*	.0	.0	313	.0	4.0
-7/-8	.0	.5	2.4	.7	*	.0	.0	317	.0	4.0
-9/-10	.0	.5	.8	.1	.0	.0	.0	118	*	1.5
-11/-12	*	.4	.2	*	.0	.0	.0	49	*	.6
-14/-16	*	.0	*	.0	.0	.0	.0	2	*	*
TOTAL	5	170	1805	4601	1109	139	9	7838	6	7832
PCT	.1	2.2	23.0	58.7	14.1	1.8	.1	100.0	.1	99.9

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.0	*	.0	.0	.0	1.5
1-2	.5	2.0	.1	.0	.0	.0	2.6
3-4	.0	.8	.3	.1	.0	.0	1.2
5-6	.0	.2	.1	.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	1.0	4.0	.5	.1	.0	.0	5.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.2	.1	.0	.0	.0	1.5
1-2	.4	3.1	.5	.0	.0	.0	4.0
3-4	.0	1.4	.8	.1	.0	.0	2.3
5-6	.0	.1	.4	.1	.0	.0	.5
7	.0	.1	.1	.1	.0	.0	.2
8-9	.0	.0	.1	.1	.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	.6	5.9	1.9	.3	.1	.0	8.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.8	.2	.0	.0	.0	2.6
1-2	.2	5.2	1.7	.0	.0	.0	7.1
3-4	.0	3.0	2.4	.2	.0	.0	6.1
5-6	.0	.4	2.2	*	.3	.0	3.0
7	.0	.1	.4	.2	.1	.0	.4
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	10.6	7.7	.6	.1	.0	19.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.9	*	.0	.0	.0	1.2
1-2	.4	3.7	.9	.0	.0	.0	5.1
3-4	.0	2.0	1.9	.0	.0	.0	3.9
5-6	.0	.2	1.3	*	.0	.0	1.5
7	.0	.1	.2	.2	.0	.0	.5
8-9	.0	.0	.1	.1	.0	.0	.2
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	6.8	4.6	.3	.0	.0	12.5

JUNE

PERIOD: (OVER-ALL) 1963-1979 — TABLE 18 (CONT) — AREA CODE GUATEMALA SW COAST 13.6N 91.0W

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.3	*	.0	.0	.0	1.6
1-2	.2	3.0	.2	.0	.0	.0	3.5
3-4	.1	1.3	1.1	*	.0	.0	2.5
5-6	.1	.1	.7	.2	.1	.0	1.1
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	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	5.8	2.6	.2	.1	.0	9.3

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.7	.0	.0	.0	.0	1.8
1-2	.5	3.3	.7	.0	.0	.0	4.5
3-4	.1	2.0	1.9	*	.0	.0	4.0
5-6	.1	.3	1.9	.1	.0	.0	2.3
7	.0	.0	.6	.2	.0	.0	.8
8-9	.0	.1	.1	.0	.0	.0	.1
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	7.3	4.2	.3	.0	.0	13.6

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	2.1	*	.0	.0	.0	2.7
1-2	.5	3.7	1.1	.0	.0	.0	5.2
3-4	.4	2.4	2.3	.1	.0	.0	5.0
5-6	.1	.8	1.6	*	.0	.0	2.5
7	.1	.1	.3	.1	.0	.0	.5
8-9	.0	.1	.2	.1	.0	.0	.3
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	9.1	5.3	.4	.0	.0	16.4

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.5	1.4	*	.0	.0	.0	2.0	
1-2	.2	2.2	.6	.0	.0	.0	2.9	
3-4	.1	.9	.6	.0	.0	.0	1.5	
5-6	.0	.4	.2	*	.0	.0	.6	
7	.0	.0	.0	*	.0	.0	*	
8-9	.0	.1	.0	.0	.0	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	4.9	1.4	*	.0	.0	7.1	93.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	10.8	11.4	.4	.0	.0	.0	22.7	
1-2	3.3	25.9	5.7	.0	.0	.0	34.9	
3-4	.6	13.7	11.2	.5	.0	.0	26.0	
5-6	.2	2.7	8.2	.4	.1	.0	11.6	
7	.0	.2	2.8	.8	.1	.0	3.2	
8-9	.0	.2	.6	.2	.0	.0	1.1	
10-11	.0	.0	.1	.2	.0	.0	.3	
12	.0	.0	.1	.1	.0	.0	.2	
13-16	.0	.0	.1	.0	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	14.9	54.2	28.7	2.1	.2	.0	100.0	1967

PERIOD: (OVER-ALL) 1969-1979 — TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.5	13.7	15.6	7.3	2.6	.9	.3	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	2645	3
6-7	.1	2.6	7.9	6.9	3.7	1.3	.6	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	1575	5
8-9	.1	1.0	3.0	3.1	2.3	.9	.6	.1	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	717	5
10-11	.0	.5	1.0	1.3	.9	.4	.2	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	272	6
12-13	.0	.0	.8	.6	.3	.2	*	*	*	*	.0	*	.0	.0	.0	.0	.0	.0	.0	141	5
>13	.0	.0	.0	.4	.3	.1	*	*	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	63	7
INDET	5.2	1.7	2.1	1.4	.6	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	725	2
TOTAL	628	1234	1922	1436	667	253	120	32	27	8	4	1	0	0	0	0	0	0	0	6322	*
PCT	9.9	19.5	30.3	22.7	10.5	4.0	1.9	.5	.4	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1957-1979
(OVER-ALL) 1972-1979

AREA 0009 GUATEMALA SW COAST
11.8N 91.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WE=
N	1.9	1.6	.5	.0	.0	.0	.0	4.6	2.3	7.5	.0	.0	.4	.0		85.4
NE	2.0	1.5	.5	.0	.0	.0	.0	5.3	2.1	5.9	.2	.0	.4	.0		86.6
E	3.2	1.6	1.3	.1	.0	.0	.0	6.1	3.4	5.4	.2	.0	.4	.1		85.0
SE	3.8	2.1	1.4	.0	.0	.0	.0	7.1	3.5	6.6	.0	.0	.3	.1		82.9
S	4.5	3.3	.6	.0	.0	.0	.0	8.7	5.1	5.1	.0	.0	.2	.0		81.3
SW	6.7	3.7	1.5	.0	.0	.0	.0	11.9	4.1	4.4	.0	.0	.1	.0		80.0
W	3.9	2.6	1.3	.0	.0	.0	.0	7.8	3.1	6.2	.2	.0	.2	.0		82.8
NW	2.6	2.0	.3	.0	.0	.0	.0	5.6	2.8	7.6	.1	.0	.9	.0		83.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.5	.5	.3	.0	.0	.0	.0	1.6	1.6	9.2	.4	.0	1.3	.3		85.3
TOT PCT	3.1	2.0	1.1	.0	.0	.0	.0	6.0	3.0	6.2	.2	.0	.4	*		84.5
TOT OBS:	8334															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER 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
0100Z03	1.2	1.0	.4	.0	.0	.0	.0	3.1	2.0	.8	*	.0	.4	*		93.5
0600Z09	2.5	1.7	1.0	.0	.0	.0	.0	5.2	2.5	18.2	.4	.0	.3	.1		73.9
1200Z15	5.9	3.2	1.8	.0	.0	.0	.0	10.6	4.1	6.1	.2	.0	.4	.0		79.2
1800Z21	2.8	1.8	.6	.0	.0	.0	.0	5.3	3.2	.7	.2	.0	.5	*		90.1
TOT PCT	3.1	2.0	1.1	.0	.0		.0	6.0	3.0	6.4	.2	.0	.4	.1		84.3
TOT OBS:	8546															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	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	5.5	.9	.1	*	.0		8.2	6.8	4.8	4.5	8.9	12.3	11.1	11.5	7.7	6.0
NE	1.7	11.8	4.7	.3	*	.0		18.6	6.9	14.0	18.5	13.4	25.4	22.9	23.5	22.8	19.8
E	2.5	17.3	12.9	1.0	.1	.0		33.8	10.5	33.3	27.6	30.1	26.5	35.5	33.9	34.0	36.8
SE	1.0	7.1	4.3	.4	*	.0		12.7	10.0	17.2	18.3	15.1	4.5	8.9	7.9	10.2	12.7
S	.4	2.9	1.1	*	.0	.0		4.9	8.0	6.3	5.9	5.1	4.2	6.5	2.9	3.7	4.8
SW	.5	2.3	.7	*	.0	.0		3.6	7.9	4.7	3.7	3.8	2.9	5.1	2.2	3.1	1.8
W	1.0	3.1	.9	*	.0	.0		5.0	7.5	6.1	5.6	6.5	3.7	4.0	3.4	4.1	3.3
NW	1.2	3.5	.8	*	.0	.0		5.5	6.9	5.7	6.5	5.3	5.9	5.9	8.8	5.1	6.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.7							7.7	.0	8.2	9.4	11.9	10.9	6.0	5.5	4.5	6.4
TOT OBS	1409	4759	2305	156	10	0	8882		6.5	2044	127	2038	202	1926	219	2126	197
TOT PCT	15.9	53.6	26.0	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	4.8	3.2	.1	*	*		8.2	6.9	4.8	9.2	11.2	7.7
NE	7.1	10.2	1.2	.1	.0		18.6	8.9	14.2	14.5	23.0	22.5
E	9.3	20.2	4.0	.2	*		33.8	10.5	33.0	29.7	33.5	36.8
SE	4.1	7.2	1.4	.1	.0		12.7	10.0	17.3	14.5	8.8	10.4
S	2.3	2.2	.4	.0	.0		4.9	8.0	6.3	5.0	4.4	3.8
SW	1.7	1.6	.2	.0	.0		3.6	7.9	4.7	3.7	3.0	2.4
W	2.6	2.2	.3	.0	.0		5.0	7.5	6.0	6.2	4.0	4.0
NW	3.1	2.3	.1	.0	.0		5.5	6.9	5.4	5.4	6.2	5.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	7.7						7.7	.0	8.4	11.8	6.0	4.6
TOT OBS	3787	4374	680	34	2	8862		6.5	2171	2240	2345	2326
TOT PCT	42.6	49.2	7.7	.4	*		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1872-1979

AREA CODE GUATEMALA SW COAST
11.8N 91.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00E03	6.4	10.5	56.4	25.0	1.6	*	.0	8.2	100.0	2171
06E09	11.8	23.3	54.9	20.6	1.3	.1	.0	7.5	100.0	2240
12E15	6.0	10.4	54.3	27.3	1.8	.2	.0	8.7	100.0	2345
18E21	4.6	9.5	50.9	32.5	2.5	*	.0	9.3	100.0	2326
TOT	683	926	4756	2345	159	10	0	8.5		9082
PCT	7.7	10.4	53.6	26.4	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	1.8	1.9	2.9	3.3		4.7
NE	3.5	4.0	7.2	3.4		4.9
E	6.6	7.3	13.9	7.2		5.0
SE	2.1	2.4	5.3	2.9		4.2
S	.6	.9	2.1	1.0		5.7
SW	.4	.5	1.4	1.4		6.0
W	.8	.9	2.1	1.9		5.4
NW	1.0	1.1	2.0	1.1		5.1
VAR	.0	.0	.0	.0		.0
CALM	2.2	1.4	2.7	1.1		4.4
TOT OBS	1260	1394	2664	1426	6778	5.0
TOT PCT	18.0	20.6	39.3	21.0	100.0	

TABLE 6

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

WND DIR	150 149	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	.1	*	.1	.4	.4	.3	.1	*	*	*	5.0	
NE	.1	.1	.3	1.0	1.7	.6	.2	.1	.2	.1	13.5	
E	.3	.1	.7	2.6	3.6	1.5	.6	.2	.2	.1	24.6	
SE	.1	*	.3	1.1	1.9	.4	.4	*	.1	*	4.7	
S	*	*	.1	.7	.8	.3	.1	*	.0	.0	3.1	
SW	*	*	.1	.4	.6	.2	.1	*	.0	*	2.0	
W	.1	*	.1	.5	.7	.3	*	*	.1	.1	3.1	
NW	*	*	.1	.3	.6	.3	.1	*	*	*	3.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	.0	.1	.4	.6	.4	.1	*	*	*	6.2	
TOT OBS	53	29	137	496	707	325	123	37	39	31	4924	6778
TOT PCT	.8	.4	2.0	7.3	10.4	4.8	1.8	.5	.6	.5	72.6	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >SOVD	= OR >0
= OR >5000	.9	1.0	1.1	1.1	1.1	1.1	1.1	1.1
= OR >4000	1.4	1.5	1.6	1.6	1.6	1.6	1.6	1.6
= OR >3500	3.0	3.3	3.4	3.4	3.4	3.4	3.4	3.4
= OR >2000	7.3	8.0	8.1	8.1	8.1	8.1	8.1	8.1
= OR >1000	16.1	18.0	18.4	18.5	18.5	18.5	18.5	18.5
= OR >600	21.3	24.6	25.5	25.7	25.7	25.7	25.7	25.7
= OR >300	22.3	26.6	27.4	27.6	27.7	27.7	27.8	27.8
= OR >150	22.4	26.9	27.8	28.0	28.0	28.0	28.1	28.1
= OR > 0	22.6	27.5	28.4	28.7	28.7	28.8	28.9	28.9
TOTAL	1577	1859	1960	1984	1988	1991	1996	1997

TOTAL NUMBER OF OBS: 6918 PCT FREQ NM <5/8: 71.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
11.2	16.4	17.7	19.6	11.2	7.5	7.2	5.7	9.2	.4	7352

JULY

AREA 0009 GUATEMALA SW COAST
11.6N 91.0W

PERIOD: (PRIMARY) 1953-1970
(OVERFLOW) 1972-1976

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	*	.1	*	*	.0	.0	*	.0	.0	.2	
	NO PCP	*	.1	.1	*	*	.0	.0	*	.0	*	.3	
	TOT %	*	.1	.2	*	*	.0	.0	*	.0	*	.5	
1/2<1	PCP	.0	.0	*	*	.0	.0	.0	.0	.0	.0	*	
	NO PCP	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
1<2	PCP	*	*	.1	.1	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	*	.1	.1	*	.0	.0	.0	.0	.0	.2	
	TOT %	*	.1	.2	.2	*	.0	.0	.0	.0	.0	.4	
2<5	PCP	.1	.1	.2	.1	*	*	.1	.1	.0	*	.6	
	NO PCP	.1	.1	.2	*	*	*	*	.1	.0	.1	.8	
	TOT %	.1	.2	.5	.1	.1	*	.1	.2	.0	.1	1.4	
5<10	PCP	.2	1.1	.6	.4	.1	.1	.1	.1	.0	.0	2.1	
	NO PCP	.4	1.1	2.0	1.6	.4	.4	.4	.4	.0	.4	6.2	
	TOT %	.5	1.7	2.6	1.2	.5	.5	.5	.5	.0	.4	8.4	
10+	PCP	.2	.6	.6	.4	.2	2.2	.2	.2	.0	.0	2.6	
	NO PCP	7.4	16.7	29.6	10.9	6.1	3.0	5.3	5.4	.0	7.0	87.1	
	TOT %	7.6	17.6	30.7	11.3	6.3	3.0	5.5	5.6	.0	7.0	89.7	
	TOT OBS												8319
	TOT PCT	8.2	18.5	34.1	12.7	6.9	3.4	5.1	5.4	.0	7.4	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	*	.1	
	4-10	.0	*	*	*	*	.0	.0	.0	.0		.1	
	11-21	.0	*	.1	*	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	
	TOT %	.0	.2	.1	*	.0	.0	.0	.0	.0	*	.5	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.2	
1<2	0-3	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.1	.1	.0	.0	.0	.0	.0	.0		.2	
	11-21	.0	.1	.1	.0	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.4	
2<5	0-3	.1	.1	.1	.1	.0	.0	.0	.0	.0	.1	.2	
	4-10	.1	.2	.2	.1	.0	.0	.0	.0	.0		.6	
	11-21	.0	.1	.2	.0	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	TOT %	.1	.3	.6	.2	.0	.0	.0	.0	.0	.1	1.2	
5<10	0-3	.1	.1	.1	.0	.0	.0	.0	.0	.0	.1	.3	
	4-10	.2	.2	.3	.1	.0	.0	.0	.0	.0		.8	
	11-21	.2	.5	.7	.2	.0	.0	.0	.0	.0		1.6	
	22+	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	.2	
	TOT %	.5	1.3	2.2	.5	.0	.0	.0	.0	.0	.2	4.9	
10+	0-3	1.5	1.6	2.3	1.0	.5	.2	.2	.1	.0	.1	7.1	16.7
	4-10	5.1	10.8	16.0	6.3	2.6	1.0	2.9	3.2	.0			48.2
	11-21	.6	4.1	11.6	3.7	1.0	.4	.7	.8	.0			22.8
	22+	.2	.2	.2	.1	.0	.0	.0	.0	.0			1.2
	TOT %	7.5	16.7	30.4	11.3	4.3	1.6	3.8	4.1	.0	7.1	89.4	
	TOT OBS												8627
	TOT PCT	8.2	18.6	33.9	12.7	4.9	1.8	4.3	4.6	.0	7.6	100.0	

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1972-1979

APEX CCCO GUATEMALA SA COAST
11.6N 91.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,AM 24/81) AND OCCURRENCE OF AM <5/8 BY HOUR

HOUR (GMT)	100 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6999	7000 7999	8000+	TOTAL	AM <5/8 ANY HGT	TOTAL OBS
00E03	.1	.3	1.0	4.8	7.6	4.1	1.8	.5	.8	.5	21.5	78.5	1915
06E09	1.3	.2	1.7	6.4	9.6	4.3	1.4	.2	.4	.7	26.1	73.9	1698
12E15	1.1	.5	3.3	10.8	11.5	3.9	1.9	.6	.5	.5	34.7	65.3	1762
18E21	.6	.5	1.7	6.1	11.3	5.8	1.9	.4	.4	.3	29.2	70.7	1855
TOT	45	26	139	504	720	329	126	37	34	34	2509	5221	7230
PCT	.6	.4	1.9	7.0	10.0	4.6	1.7	.5	.5	.5	27.8	72.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (SM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.2	.1	.2	1.0	5.2	93.2	2184
06E09	.4	*	.5	1.8	10.0	87.3	2227
12E15	.4	.1	.4	2.6	10.2	86.3	2144
18E21	.4	.1	.1	1.2	7.4	90.6	2282
TOT	31	9	28	146	726	7901	8840
PCT	.4	.1	.3	1.7	8.2	89.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (SM) AND/OR CEILING HGT (FEET,AM 24/81),BY HOUR

HOUR (GMT)	<150 <500'S	<500 <1	<1000 <3	1000+ AND5+	AM <5/8 AND 5+	TOTAL OBS
00/03	.2	1.2	7.2	15.5	77.3	1621
06/09	1.3	3.4	10.6	16.4	72.7	1617
12/15	1.1	5.2	16.6	19.3	63.8	1583
18/21	.4	3.0	9.6	29.7	64.7	1795
TOT	53	226	766	1244	6918	6918
PCT	.8	3.3	11.0	18.0	71.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	*	*	.0	.0	.0	3	*
90/94	.0	.0	.0	.2	.5	.4	.1	*	83	1.2
85/89	.0	.0	.0	.7	3.1	10.3	3.0	.6	1180	17.1
80/84	.0	.0	.0	.1	2.1	24.5	34.7	6.4	4677	67.8
75/79	.0	.0	.0	.1	*	.9	6.7	5.8	927	13.4
70/74	.0	.0	.0	.0	.0	.0	.4	.2	32	.4
TOTAL	0	0	0	24	401	2495	3061	915	6900	100.0
PCT	.0	.0	.0	.4	5.8	35.2	44.4	13.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

%	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	*	*	.0	*	*	.0	.0	*
.1	.3	.9	.1	.1	*		.1	.0	.1
1.5	3.7	6.1	2.1	.5	.3		1.0	.0	1.2
5.6	12.3	29.2	8.7	2.4	2.2	2.3	3.5	.0	5.5
.8	2.1	3.9	1.7	1.4	1.1	1.1	.6	.0	.6
*	.1	.1	.1	.1	*	*	.1	.0	.0
6.0	18.4	34.7	12.7	4.9	3.8	4.8	5.3	.0	7.4

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	90%	50%	10%	MIN	MEAN	TOTAL OBS
00E03	95	90	88	82	74	76	69	83.0	7232
06E09	91	86	84	81	78	75	72	81.3	2304
12E15	95	86	84	81	77	74	72	80.7	2172
18E21	95	91	89	84	79	75	69	83.8	7358
TOT	95	90	87	82	78	75	69	82.2	9046

TABLE 16

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	.6	9.1	44.5	38.6	8.2	79	1807
06E09	.0	.0	2.1	27.5	54.3	16.1	83	1797
12E15	.0	.2	1.4	23.5	54.9	19.9	84	1726
18E21	.0	.9	11.7	48.5	29.8	9.4	78	1747
TOT	0	30	410	2551	3142	944	91	7077

PERIOD: (APPROX) 1957-1967
(USEW-HALL) 1977-1979

AREA CODE GUATEMALA SW COAST
13.4N 91.6W

TABLE 37

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

AIR-SEA / VSBY	65	27	37	41	45	49	149	TOT	% FOG	NO FOG
SEA TEMP	32	36	40	44	48	52				
24/36										
13/23										
4/12										
2/3										
1										
0										
-1/-3										
-4/-11										
-12/-19										
-20/-27										
-28/-35										
TOTAL										
		1%		44%		35%		2782		
PCT	.1	2.2	22.9	54.6	35.4	2.4	.2	1PCT.0	.1	99.8

PERIOD: (USEW-HALL) 1963-1976

TABLE 38

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

	N							NE						
HGT / KTS	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
CALM														
1/2														
3/4														
5/6														
7														
8/9														
10-11														
12														
13-16														
17-19														
20-22														
23-25														
26-32														
33-40														
41-48														
49-60														
61-70														
71-86														
87+														
TOT PCT	1.4	5.4	3.2						33.6	6.2				19.1

	E							SE						
HGT / KTS	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
CALM														
1/2														
3/4														
5/6														
7														
8/9														
10-11														
12														
13-16														
17-19														
20-22														
23-25														
26-32														
33-40														
41-48														
49-60														
61-70														
71-86														
87+														
TOT PCT	2.4	10.4	15.7				37.5							

PERIOD: (OVER-ALL) 1963-1979 JUL AREA 0009 GUATEMALA S= COAST 11.6N 91.0W

TABLE 18 (CONT)

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

				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+	PCT	
<1	.2	.7	.0	.0	.0	.0	.9	.2	.6	.0	.0	.0	.0	.7	
1-2	.1	1.3	.5	.0	.0	.0	1.9	.4	1.3	.2	.0	.0	.0	1.9	
3-4	.0	.6	.3	.0	.0	.0	.9	.0	.7	.2	.0	.0	.0	.9	
5-6	.1	.2	.2	.0	.0	.0	.5	.0	.3	.2	.1	.0	.0	.5	
7	.0	.1	.1	.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	*	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	3.0	1.1	.0	.0	.0	4.4	.6	2.8	.7	.1	.0	.0	4.2	

																TOTAL
				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		PCT
<1	.5	.3	.0	.0	.0	.0	.8	.4	.3	*	.0	.0	.0	1.3		
1-2	.4	1.6	.1	.0	.0	.0	2.1	.3	1.5	.1	.0	.0	.0	2.0		
3-4	.1	.5	.4	.1	.0	.0	1.0	.1	.4	.2	.0	.0	.0	.8		
5-6	.0	.2	.1	.0	.0	.0	.3	.0	*	.1	.0	.0	.0	.1		
7	.0	.0	*	.0	.0	.0	*	.0	.2	.0	.0	.0	.0	.2		
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.1	.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	2.6	.7	.1	.0	.0	4.4	.6	3.2	.6	.0	.0	.0	4.7		94.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	10.9	9.7	.3	.0	.0	.0	20.9	
1-2	3.5	25.9	6.4	.1	.0	.0	35.8	
3-4	.9	12.4	12.6	.5	.0	.0	26.4	
5-6	.2	3.5	7.5	.5	.1	.0	11.7	
7	.2	.8	2.6	.3	.0	.0	3.8	
8-9	.0	.1	.7	.3	.1	.0	1.2	
10-11	.0	.0	.1	.1	.0	.0	.3	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.1	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	15.9	52.5	30.2	1.7	.2	.0	100.0	1898

PERIOD: (OVER-ALL) 1949-1979 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.4	19.4	16.4	8.8	2.7	.7	.4	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3000	3
6-7	.1	2.0	8.7	8.1	4.3	1.5	.4	.2	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	1590	5
8-9	*	.7	2.9	3.2	1.5	.7	.3	.1	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	605	5
10-11	.0	.4	.7	1.2	.6	.2	.3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	739	5
12-13	.0	.2	.8	.6	.2	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	117	5
>13	.0	.0	.0	.5	.2	.1	.1	*	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	61	7
INDET	4.6	1.1	1.9	1.5	.6	.1	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	641	2
TOTAL	592	3108	1974	1495	644	215	99	28	24	6	7	1	0	0	0	0	0	0	0	6253	4
PCT	9.5	18.7	31.6	23.9	10.3	3.4	1.6	.4	.4	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	100.0	

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AREA 0009 GUATEMALA SW COAST
11.8N 91.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG W/O PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.2	2.2	.6	.0	.0	.0	.0	5.1	2.0	8.0	.2	.0	.5	.2		84.3
NE	3.7	2.1	1.6	.0	.0	.0	.0	7.4	2.9	5.6	.1	.0	.5	.0		83.8
E	3.2	1.9	1.0	.0	.0	.0	.0	5.9	3.5	5.2	.2	.0	.4	*		85.1
SE	3.2	2.2	1.4	.0	.0	.0	.0	6.5	3.3	7.0	.1	.0	.2	.0		83.1
S	3.8	3.4	1.6	.2	.0	.0	.0	8.7	4.7	7.8	.2	.0	.0	.2		78.6
SW	6.7	2.7	1.5	.0	.0	.0	.0	10.1	4.9	4.6	.0	.0	.2	.0		80.6
W	3.7	2.6	2.7	.3	.0	.0	.0	8.4	5.4	5.7	.0	.0	.3	.0		80.3
NW	3.1	1.3	1.3	.0	.0	.0	.0	5.8	2.5	7.2	.2	.0	.4	.0		84.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	1.0	.7	.3	.0	.0	.0	.0	2.1	1.8	6.7	.1	.0	1.3	.1		87.8
TOT PCT	3.3	2.0	1.3	.0	.0	.0	.0	6.4	3.4	6.1	.1	.0	.4	*		83.7
TOT OBS:	8020															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG W/O PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00E03	2.1	.8	.6	.0	.0	.0	.0	3.2	2.0	.9	*	.0	.3	.0		93.6
06E09	2.5	1.7	1.1	.0	.0	.0	.0	5.1	2.4	17.4	.2	.0	.7	.1		74.8
12E15	6.1	3.4	2.5	.0	.0	.0	.0	11.6	5.3	7.5	.3	.0	.6	.1		75.1
18E21	3.0	2.3	.9	.0	.0	.0	.0	6.2	3.6	.6	.1	.0	.3	*		89.3
TOT PCT	3.4	2.0	1.2	.0	.0	.0	.0	6.5	3.3	6.4	.1	.0	.4	*		83.5
TOT OBS:	8270															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.5	5.0	.7	.1	.0	.0		7.3	6.7	3.6	6.2	7.2	10.5	10.6	7.0	7.7	7.8
NE	1.5	9.8	3.4	.2	*	.0		14.9	8.6	11.7	9.7	11.0	15.5	17.3	18.9	18.9	19.0
E	2.5	15.8	9.6	.7	.1	.0		28.7	9.9	28.5	18.8	23.1	22.3	29.2	29.8	34.4	28.5
SE	1.6	9.2	4.2	.2	.0	.0		14.2	9.1	18.2	16.1	16.6	12.6	10.5	9.0	12.2	13.6
S	1.1	3.9	1.1	*	.0	*		6.1	7.6	7.4	9.9	6.9	6.2	4.8	5.0	4.9	8.2
SW	.7	4.1	1.4	.1	.0	.0		6.3	8.5	8.4	9.7	6.3	7.3	4.8	9.0	5.0	6.6
W	1.3	4.7	1.4	*	.0	.0		7.5	7.7	8.6	9.1	8.9	7.5	6.8	9.3	5.6	6.1
NW	1.1	4.5	.6	*	*	.0		6.3	6.9	5.0	9.7	6.5	10.9	6.7	6.1	6.2	7.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.7							8.7	.0	8.6	10.9	13.8	7.3	9.2	5.9	5.0	3.2
TOT OBS	1699	4774	1908	112	6	1	8500		7.9	1965	129	1872	193	1801	221	2132	187
TOT PCT	20.0	56.2	22.4	1.3	.1	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.1	3.0	.1	.0	.0		7.3	6.7	3.7	7.5	10.2	7.7
NE	6.0	8.1	.8	.1	*		14.9	8.6	11.6	11.4	17.5	18.9
E	8.9	16.8	2.8	.1	*		28.7	9.9	27.9	23.1	29.3	33.9
SE	5.1	8.3	.8	*	.0		14.2	9.1	18.0	16.3	10.4	12.4
S	3.0	2.9	.2	*	*		6.1	7.6	7.5	6.9	4.9	5.1
SW	2.9	2.8	.5	.0	.0		6.3	8.5	8.5	6.4	5.3	5.1
W	3.7	3.4	.4	.0	.0		7.5	7.7	8.6	8.8	7.0	5.7
NW	3.4	2.7	.2	.0	*		6.3	6.9	5.3	6.9	6.7	6.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	8.7						8.7	.0	8.7	12.8	8.9	4.8
TOT OBS	3695	4087	494	21	3	8500		7.9	2094	2065	2022	2319
TOT PCT	45.6	48.1	5.8	.2	*		100.0		100.0	100.0	100.0	100.0

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11.6N 91.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00103	6.7	11.8	56.8	22.0	.6	.1	.0	7.7	100.0	2094
06109	12.8	12.6	56.3	16.5	1.3	.0	.0	6.9	100.0	2065
12115	8.9	10.4	55.7	23.5	1.4	.1	.0	8.1	100.0	2022
18121	4.8	10.5	55.4	27.2	2.0	*	*	8.8	100.0	2319
TOT	738	961	4774	1908	112	6	1	7.9		8500
PCT	8.7	11.3	56.2	22.4	1.3	.1	*		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.2	1.7	2.7	1.4		5.0
NE	2.3	3.5	5.8	2.8		5.0
E	5.3	6.5	12.1	5.7		5.0
SE	2.0	2.7	6.5	3.3		5.4
S	.7	1.1	2.6	1.6		5.6
SW	.5	1.0	2.5	2.0		5.9
W	1.0	1.4	3.0	2.1		5.5
NW	1.0	1.4	2.4	1.1		5.0
VAR	.0	.0	.0	.0		.0
CALM	2.5	2.1	3.2	1.2		4.3
TOT OBS	1096	1417	2711	1415	6639	5.1
TOT PCT	16.5	21.3	40.8	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
*	.0	.2	.5	.7	.3	.1	*	*	*	5.0	
.1	*	.2	1.1	1.3	.8	.3	.1	.1	.1	10.3	
.2	.1	.4	2.5	3.2	1.6	.5	.1	.1	.1	20.7	
.1	.1	.4	1.3	1.9	.6	.3	.2	.1	*	9.7	
.1	*	.1	.6	.8	.3	.1	.1	*	.0	3.8	
*	*	.3	.8	.9	.3	.2	*	*	*	3.5	
.1	.1	.2	.9	1.1	.5	.1	*	*	.0	4.5	
*	*	.1	.5	.7	.3	.2	*	.0	*	4.1	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.1	*	.1	.5	.8	.3	.2	*	*	*	6.7	
51	24	136	580	750	325	127	42	31	18	4555	6639
.8	.4	2.0	8.7	11.3	4.9	1.9	.6	.5	.3	68.6	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >5OYD	= OR >0
= OR >6500	.6	.7	.7	.7	.7	.7	.7	.7
= OR >5000	1.1	1.3	1.3	1.3	1.3	1.3	1.3	1.3
= OR >3500	2.9	3.2	3.2	3.3	3.3	3.3	3.3	3.3
= OR >2000	7.1	8.0	8.0	8.1	8.1	8.1	8.1	8.1
= OR >1000	16.9	19.0	19.2	19.3	19.4	19.4	19.4	19.4
= OR >600	23.4	27.2	27.8	28.0	28.1	28.1	28.1	28.1
= OR >300	24.6	29.0	29.7	29.9	30.1	30.1	30.1	30.1
= OR >150	24.8	29.3	30.0	30.3	30.4	30.4	30.5	30.5
= OR > 0	25.0	29.8	30.7	30.9	31.1	31.2	31.2	31.2
TOTAL	1708	2035	2092	2111	2122	2126	2130	2130

TOTAL NUMBER OF OBS: 6823

PCT FREQ NH <5/8: 68.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
8.9	15.8	17.8	15.1	10.9	7.7	7.9	6.4	9.0 .4	7195

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TABLE 8

AREA 0009 GUATEMALA SW COAST
11.8N 91.0W

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	*	*	*	*	*	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	TOT %	*	*	*	*	*	*	.0	.0	.0	.0	.2	
1/2<1	PCP	*	*	.1	*	.0	*	*	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	*	.1	*	.0	*	*	.0	.0	.0	.1	
1<2	PCP	*	*	.1	*	.0	*	*	*	.0	.0	.2	
	NO PCP	*	.0	*	*	.0	*	*	*	.0	.0	.1	
	TOT %	*	*	.1	.1	.0	*	*	*	.0	.0	.3	
2<5	PCP	*	.1	.1	.1	.1	.1	.1	*	.0	*	.7	
	NO PCP	*	.1	.1	.1	*	*	*	*	.0	*	.4	
	TOT %	*	.2	.2	.2	.1	.1	.1	.1	.0	.1	1.0	
5<10	PCP	.2	.5	.6	.4	.2	.3	.2	.1	.0	.1	2.5	
	NO PCP	.3	.8	1.5	.9	.4	.6	.6	.6	.0	.5	6.3	
	TOT %	.5	1.3	2.1	1.3	.6	.8	.8	.7	.0	.5	8.7	
10+	PCP	.1	.4	.8	.4	.3	.3	.3	.2	.0	.1	2.7	
	NO PCP	6.5	12.8	25.7	12.5	5.0	5.2	6.3	5.3	.0	7.9	86.9	
	TOT %	6.6	13.2	26.4	12.8	5.3	5.4	6.5	5.4	.0	8.0	89.7	
	TOT OBS												8000
	TOT PCT	7.2	14.5	28.9	14.5	6.0	6.4	7.5	6.2	.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	*	
	4-10	*	*	*	*	.0	.0	.0	.0	.0		.1	
	11-21	.0	*	*	*	*	.0	.0	.0	.0		.1	
	22+	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	TOT %	*	*	*	.1	*	*	.0	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	*	*	.0	.0	*	.0	.0	.0		.1	
	11-21	.0	.0	*	*	.0	.0	*	.0	.0		*	
	22+	.0	*	*	.0	.0	*	*	.0	.0		*	
	TOT %	*	*	.1	*	.0	*	*	.0	.0	.0	.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	*	.1	*	*	*	*	*	.0		.2	
	11-21	*	*	*	*	.0	*	*	*	.0		.1	
	22+	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	TOT %	*	.1	.1	.1	*	*	*	.1	.0	.0	.4	
2<5	0-3	.0	*	*	*	.0	*	*	.0	.0	.1	.1	
	4-10	*	.1	.1	.1	.1	.1	.1	*	.0		.5	
	11-21	.0	*	.1	.1	*	*	*	*	.0		.4	
	22+	.0	*	*	*	*	*	*	*	.0		.1	
	TOT %	*	.2	.3	.2	.1	.1	.1	.1	.0	.1	1.2	
5<10	0-3	.1	*	.1	.1	.1	*	.1	.1	.0	.5	1.2	
	4-10	.3	.7	.9	.6	.3	.4	.4	.4	.0		4.0	
	11-21	.1	.5	.9	.5	.2	.3	.3	.1	.0		3.0	
	22+	*	.1	.1	.1	*	*	*	*	.0		.4	
	TOT %	.5	1.3	2.1	1.3	.6	.8	.8	.7	.0	.5	8.6	
10+	0-3	1.4	1.5	2.4	1.6	.9	.6	1.1	1.0	.0	9.1	18.6	
	4-10	4.6	8.8	14.7	7.5	3.6	3.6	4.3	4.1	.0		51.1	
	11-21	.6	2.9	8.5	3.5	.8	1.1	1.1	.4	.0		18.9	
	22+	*	.1	.5	.1	*	.1	*	*	.0		.8	
	TOT %	6.6	13.2	26.1	12.7	5.3	5.3	6.5	5.5	.0	8.1	89.4	
	TOT OBS												8255
	TOT PCT	7.2	14.9	28.7	14.3	6.1	6.3	7.5	6.3	.0	8.7	100.0	

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11.8N 91.0W

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	MM <5/8 ANY HGT	TOTAL OBS
00E03	.4	.3	1.4	5.9	7.9	4.3	2.0	.6	.5	.2	23.5	76.5	1875
06E09	.5	.3	1.0	7.1	9.7	3.5	1.6	.3	.4	.5	25.6	74.4	1587
12E15	.9	.5	3.4	11.5	13.1	5.1	1.6	.6	.1	.2	37.0	63.0	1711
18E21	.7	.4	2.1	9.2	13.0	5.4	2.3	.8	.7	.2	34.7	65.3	1898
TOT	52	25	139	593	773	332	133	42	31	19	2139	4932	7071
PCT	.7	.4	2.0	8.4	10.9	4.7	1.9	.6	.4	.3	30.3	69.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.1	.2	.2	.8	5.2	93.4	2119
06E09	.1	.1	.3	.9	9.6	88.9	2067
12E15	.1	.2	.5	1.9	12.2	85.0	2041
18E21	.3	.1	.5	1.3	7.7	90.1	2282
TOT	16	14	34	105	733	8607	8509
PCT	.2	.2	.4	1.2	8.6	89.4	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	MM <5/8 AND 5+	TOTAL OBS
00E03	.4	2.3	8.7	15.9	75.4	1803
06E09	1.0	2.4	10.2	16.7	73.1	1523
12E15	.9	5.0	16.2	20.4	61.3	1653
18E21	.7	3.4	13.2	22.5	64.3	1844
TOT	51	223	856	1294	4673	6823
PCT	.7	3.3	12.5	19.0	68.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	*	*	*	.0	.0	3	*
90/94	.0	.0	*	.2	.8	.4	.1	*	106	1.6
85/89	.0	.0	*	.2	3.2	9.7	2.3	.6	1068	16.0
80/84	.0	.0	.0	.1	2.2	24.2	35.0	6.1	4511	67.5
75/79	.0	.0	.0	.0	.0	.4	6.7	6.8	955	14.3
70/74	.0	.0	.0	.0	.0	.0	.1	.5	38	.6
TOTAL	0	0	3	33	410	2348	2953	934	6681	100.0
PCT	.0	.0	*	.5	6.1	35.1	44.2	14.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	*	.0	.0	.0	*	.0	.0	*
	.2	.3	.4	.1	.1	*	.2	.2	.0	.1
	1.3	2.5	5.5	2.2	.7	.4	.8	.9	.0	1.7
	4.8	9.7	19.8	10.2	3.9	4.2	4.6	4.1	.0	6.2
	.7	1.7	3.4	2.0	1.2	1.8	1.8	.7	.0	.9
	*	.1	.1	*	*	.1	.1	*	.0	.0
	7.1	14.4	29.3	14.5	9	6.5	7.4	5.8	.0	9.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	95	90	87	83	78	76	71	82.8	2142
06E09	91	86	84	82	78	75	69	81.3	2142
12E15	93	86	84	81	76	74	72	80.6	2067
18E21	95	92	89	84	78	75	70	83.7	2338
TOT	95	90	87	82	77	75	69	82.1	8689

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.5	8.0	42.9	40.7	7.9	79	1770
06E09	.0	.0	2.5	29.7	51.3	16.5	83	1677
12E15	.0	.1	1.2	21.5	54.5	22.7	84	1674
18E21	.0	1.4	12.1	45.6	31.7	9.1	78	1786
TOT	0	36	419	2432	3061	959	81	6907

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1893-1979

AREA 0009 GUATEMALA SW COAST
11.6N 91.0W

TABLE 17

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

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	# FOG	NO FOG
14/16	.0	.0	.0	.0	*	*	*	4	.0	.1
11/13	.0	.0	.0	.0	.1	.1	.1	14	.0	.2
9/10	.0	.0	*	*	.1	.2	.1	27	.0	.4
7/8	.0	.0	*	.1	.4	.5	.1	82	.0	1.1
6	.0	.0	*	.2	.4	.3	.0	65	.0	.9
5	.0	.0	.1	.4	.8	.3	*	122	.0	1.6
4	.0	.0	.1	.7	1.6	.3	.0	199	.0	2.7
3	.0	.0	.1	1.1	1.6	.3	.0	229	.0	3.1
2	.0	*	.4	3.3	2.3	.1	.0	464	.0	6.2
1	.0	*	.5	4.6	2.4	*	.0	560	.0	7.5
0	.0	.1	1.2	9.9	2.2	.1	.0	1000	*	13.4
-1	.0	.1	1.9	8.8	1.3	*	.0	910	*	12.2
-2	.0	.1	3.9	10.2	.8	.0	.0	1158	*	15.5
-3	.0	.1	3.4	6.4	.4	.0	.0	775	*	10.4
-4	.0	.2	3.9	4.9	.2	*	.0	686	*	9.2
-5	.0	.2	3.5	3.1	.2	*	.0	517	*	6.9
-6	.0	.3	2.1	1.2	.1	*	.0	270	.0	3.6
-7/-8	*	.8	2.1	.6	*	.0	.0	263	*	3.5
-9/-10	.0	.5	.4	.2	.0	.0	.0	86	.0	1.2
-11/-13	.1	.2	.1	.1	.0	.0	.0	31	.0	.4
-14/-16	*	*	.0	*	.0	.0	.0	5	.0	.1
TOTAL	8	1762		4210	1107	170	16		10	7457
PCT	.1	154 7.4	23.6	56.4	14.8	2.3	.2	7467 100.0	.1	99.9

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.7	.0	.0	.0	.0	1.4
1-2	.2	2.4	*	.0	.0	.0	2.6
3-4	*	.7	.3	.0	.0	.0	1.0
5-6	.0	.1	.1	.0	.0	.0	.2
7	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	3.9	.4	.0	.0	.0	5.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.8	.2	.0	.0	.0	2.6
1-2	.4	5.2	.9	.0	.0	.0	6.4
3-4	*	2.7	1.8	.1	.0	.0	4.5
5-6	.0	.5	1.0	.1	.0	.0	1.5
7	.0	.1	.3	*	.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	1.1	10.2	4.1	.1	.0	.0	15.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	1.9	.2	.0	.0	.0	3.2
1-2	.8	8.0	1.4	.0	.0	.0	10.3
3-4	.2	4.7	4.2	.2	.0	.0	9.3
5-6	.0	1.2	3.4	.1	.1	.0	4.7
7	.0	.1	1.0	.1	.0	.0	1.2
8-9	.0	*	.1	.0	.0	.0	.2
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.1	16.0	10.9	.4	.1	.0	29.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.1	.0	.0	.0	.0	1.7
1-2	.3	5.2	1.1	.0	.0	.0	6.6
3-4	.2	3.0	2.2	.1	.0	.0	5.5
5-6	.0	.9	1.5	.1	.0	.0	2.5
7	.0	.0	.2	.1	.0	.0	.3
8-9	.0	*	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	10.3	5.1	.2	.0	.0	16.7

AUGUST

PERIOD: (OVER-ALL) 1963-1979 — AREA 0009 GUATEMALA SW COAST 11.8N 91.0W

TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.7	.1	.0	.0	.0	.9
1-2	.4	1.6	.4	.0	.0	.0	2.4
3-4	.0	1.0	.5	.0	.0	.0	1.5
5-6	.0	.5	.3	.0	.0	.0	.8
7	.0	.1	*	.0	.0	.0	.1
8-9	.0	.1	.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	4.0	1.3	.0	.0	.0	5.8

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.2	.1	.0	.0	.0	1.3
1-2	.3	2.8	.2	.0	.0	.0	3.2
3-4	.0	1.0	.4	*	.0	.0	1.4
5-6	.0	.3	.3	.1	.0	.0	.7
7	.0	.1	*	.0	.0	.0	.1
8-9	.0	*	.0	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	5.4	.6	.1	.0	.0	6.7

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.9	.0	.0	.0	.0	1.4
1-2	.4	2.9	.3	.0	.0	.0	3.6
3-4	*	1.1	.6	*	.0	.0	1.8
5-6	.0	.2	.1	.0	.0	.0	.4
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	*	.0	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	5.2	1.2	*	.0	.0	7.4

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.5	.8	.0	.0	.0	.0	1.4	
1-2	.3	2.5	.1	.0	.0	.0	3.0	
3-4	*	.7	.1	.0	.0	.0	.8	
5-6	.0	.1	.1	.0	.0	.0	.1	
7	.0	.0	.1	.0	.0	.0	.1	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.8	4.1	.4	.0	.0	.0	5.3	92.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	13.2	9.3	.4	.0	.0	.0	22.9	
1-2	3.9	29.9	4.7	.0	.0	.0	38.6	
3-4	.6	14.5	9.8	.4	.0	.0	25.2	
5-6	.1	3.7	6.5	.3	.1	.0	10.6	
7	.0	.3	1.8	.2	.0	.0	2.2	
8-9	.0	.2	.3	.0	.0	.0	.5	
10-11	.0	.0	.0	.1	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1964
TOT PCT	17.8	57.8	23.5	.9	.1	.0	100.0	

PERIOD: (OVER-ALL) 1969-1979

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.9	14.0	17.0	8.0	2.3	.7	.3	.0	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	2912	3
6-7	.2	2.1	6.8	7.9	3.3	1.0	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1488	5
8-9	*	.6	2.8	3.3	2.2	.8	.3	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	634	5
10-11	.0	.4	.9	1.2	.5	.4	.1	*	*	*	*	*	.0	.0	.0	.0	.0	.0	.0	222	5
12-13	.0	.0	.7	.4	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	86	5
>13	.0	.0	.0	.5	.2	.1	.1	.0	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	59	7
INDET	6.1	1.2	2.3	1.6	.6	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	750	2
TOTAL	694	1127	1994	1432	576	203	92	16	26	6	4	1	0	0	0	0	0	0	0	6151	4
PCT	11.3	18.3	32.4	22.9	9.4	3.3	1.5	.3	.4	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1952-1976
(OVER-ALL) 1884-1976

AREA 0009 GUATEMALA SW COAST
11.9N 91.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLNG BLWG	DUST SNOW	NO SIG WEA
N	3.3	1.9	1.5	.0	.0	.0	.0	6.7	4.4	6.4	.3	.0	.6	.0	82.4
NE	5.1	2.4	1.4	.0	.0	.0	.0	8.9	3.2	5.7	.1	.0	.7	.0	82.5
E	3.7	2.7	1.3	.0	.0	.0	.0	7.6	5.2	6.1	.4	.0	.3	.0	81.2
SE	4.3	1.7	.8	.0	.0	.0	.0	6.6	3.9	6.9	.2	.0	.2	.0	82.7
S	3.9	3.4	.6	.0	.0	.0	.0	7.9	5.8	5.3	.0	.0	.4	.0	80.7
SW	7.4	4.4	1.6	.0	.0	.0	.0	13.2	5.7	4.0	.1	.0	.3	*	77.0
W	5.3	3.6	2.6	.0	.0	.0	.0	11.5	5.8	3.5	.1	.0	.2	.1	79.0
NW	4.2	2.6	2.1	.0	.0	.0	.0	9.1	4.3	5.3	*	.0	.4	.0	81.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.0	1.3	.4	.0	.0	.0	.0	2.6	.4	8.2	.1	.0	1.1	.0	87.5
TOT PCT	4.4	2.8	1.5	.0	.0	.0	.0	8.6	4.5	5.5	.1	.0	.4	*	81.2
TOT OBS:	7835														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER 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 BLNG BLWG	DUST SNOW	NO SIG WEA
00E03	2.5	2.2	.6	.0	.0	.0	.0	5.4	3.2	1.3	.1	.0	.3	.0	89.8
06E09	3.6	2.4	.7	.0	.0	.0	.0	6.6	3.5	15.8	.1	.0	.4	.0	74.2
12E15	7.7	3.5	2.6	.0	.0	.0	.0	14.2	6.1	5.1	.2	.0	.5	.0	74.4
18E21	3.8	2.7	1.6	.0	.0	.0	.0	8.1	5.1	1.0	.1	.0	.4	*	85.6
TOT PCT	4.4	2.8	1.4	.0	.0	.0	.0	8.5	4.5	5.6	.1	.0	.4	*	81.3
TOT OBS:	8029														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	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	4.1	.8	.1	.0	.0		6.5	6.6	4.4	9.0	5.3	7.2	9.4	8.3	6.3	10.5
NE	1.3	6.1	1.7	.1	*	.0		9.2	8.0	5.7	6.5	5.9	6.3	12.8	10.8	12.3	9.4
E	2.0	11.4	4.7	.3	*	.0		18.4	8.9	17.7	11.4	13.8	15.4	19.8	16.6	23.9	15.3
SE	1.3	7.0	2.1	.1	.0	.0		10.5	8.1	13.7	13.2	12.4	7.3	7.4	9.1	8.9	7.3
S	1.2	5.2	1.4	.2	.0	.0		7.9	8.0	9.6	6.9	8.9	7.6	6.1	6.7	7.2	9.1
SW	1.2	6.1	4.3	.5	*	.0		12.2	10.3	13.3	14.7	12.5	13.8	10.7	11.7	11.7	13.8
W	1.4	9.4	5.2	.4	.0	.0		16.8	9.4	18.1	15.9	17.9	17.2	16.9	13.1	15.3	15.3
NW	1.4	5.6	1.7	.1	.0	.0		8.8	7.9	7.7	9.9	9.8	11.9	8.9	14.9	8.0	10.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.7							9.7	.0	9.7	13.4	13.7	13.8	9.0	8.7	6.4	9.1
TOT OBS	1796	4627	1842	143	6	0	8394		7.8	1931	134	1847	174	1759	241	2122	186
TOT PCT	21.4	54.9	21.9	1.7	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.3	2.9	.2	*	.0		6.5	6.6	4.7	5.4	9.2	6.7
NE	4.3	4.5	.3	*	.0		9.2	8.0	5.8	6.0	12.6	12.1
E	7.0	10.2	1.1	.1	*		18.4	8.9	17.3	13.8	18.5	23.2
SE	4.6	5.4	.4	*	.0		10.5	8.1	13.7	12.0	7.6	8.8
S	4.0	3.4	.5	*	.0		7.9	8.0	9.4	8.8	6.2	7.4
SW	3.9	6.6	1.6	.1	.0		12.2	10.3	13.4	12.6	10.9	11.9
W	6.0	9.3	1.5	.1	.0		16.8	9.4	18.0	17.8	16.5	15.3
NW	4.4	4.0	.4	*	.0		8.8	7.9	7.8	9.9	9.7	8.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	9.7						9.7	.0	9.9	13.7	9.0	6.6
TOT OBS	4017	3833	510	33	1	8394		7.8	2065	2021	2000	2308
TOT PCT	47.9	45.7	6.1	.4	*		100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1953-1978
(OVER-ALL) 1884-1979

AREA 0009 GUATEMALA SW COAST
14.9N 91.6W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00E03	9.9	12.9	56.4	19.1	1.6	*	.0	7.5	100.0	2065
06E09	13.7	12.0	53.5	19.4	1.3	.1	.0	7.2	100.0	2021
12E15	9.0	11.0	54.6	22.5	2.1	.1	.0	8.1	100.0	2000
18E21	6.6	10.4	54.8	26.2	1.9	*	.0	8.4	100.0	2314
TOT	814	992	4607	1842	143	6	0	7.8		8394
PCT	9.7	11.7	54.9	21.9	1.7	.1	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.8	1.3	2.8	1.5		5.5
NE	1.1	1.6	4.3	2.6		5.6
E	2.0	3.6	9.4	4.7		5.6
SE	1.4	1.8	4.6	2.3		5.4
S	.8	1.4	3.6	2.2		5.7
SW	.8	1.8	4.9	4.6		6.2
W	1.5	3.0	7.5	5.5		5.9
NW	1.1	1.4	3.8	2.2		5.6
VAR	.0	.0	.0	.0		.0
CALM	2.5	2.5	3.2	1.2		4.2
TOT OBS	765	1174	2759	1718	6416	5.6
TOT PCT	11.9	18.3	43.0	26.8	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	HH <5/8 ANY HGT	TOTAL OBS
N	.1	*	.2	.5	.8	.4	.1	*	*	.0	4.2	
NE	.1	*	.3	1.0	1.4	.4	.2	.0	*	.0	6.1	
E	.1	.1	.5	1.9	2.6	1.1	.3	.1	*	*	12.1	
SE	.1	.1	.4	1.0	1.4	.5	.2	.1	*	.0	6.4	
S	.1	.1	.2	1.1	1.1	.6	.2	.1	.1	.0	4.6	
SW	.2	.1	.6	1.4	2.2	.6	.3	*	.1	*	6.2	
W	.3	.1	.6	2.3	3.0	.9	.3	.1	*	.0	9.9	
NW	*	*	.2	1.1	1.1	.2	.1	.1	*	.1	5.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	*	*	.4	.7	.2	*	*	*	*	7.8	
TOT OBS	65	26	182	707	920	313	120	25	20	10	4024	6416
TOT PCT	1.0	.4	2.8	11.0	14.3	4.9	1.9	.4	.3	.2	62.7	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >SOYD	= OR >0
= OR >6500	.4	.4	.5	.5	.5	.5	.5	.5
= OR >5000	.7	.8	.8	.8	.8	.8	.8	.8
= OR >3500	2.3	2.6	2.7	2.7	2.7	2.7	2.7	2.7
= OR >2000	6.5	7.3	7.4	7.5	7.5	7.5	7.5	7.5
= OR >1000	18.2	21.0	21.6	21.7	21.7	21.7	21.7	21.7
= OR >600	25.4	31.1	32.2	32.4	32.5	32.5	32.6	32.6
= OR >300	27.5	33.5	34.8	35.2	35.3	35.3	35.4	35.4
= OR >150	27.7	33.9	35.2	35.6	35.7	35.7	35.8	35.8
= OR > 0	28.0	34.5	36.0	36.4	36.6	36.7	36.8	36.8
TOTAL	1838	2265	2365	2394	2406	2409	2414	2416

TOTAL NUMBER OF OBS: 6568 PCT FREQ HH <5/8: 63.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
9.4	11.2	17.7	17.1	12.2	9.4	8.6	6.9	11.5	.7	6965

SEPTEMBER

PERIOD: (PRIMARY) 1953-1976
(COVER-ALL) 1964-1976

AREA CODE GUATEMALA SW COAST
11.9N 91.0W

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	*	*	*	*	*	*	*	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	*	*	*	*	*	*	*	.0	.0	.2	
1/2<1	PCP	*	*	.0	.0	.0	*	*	*	.0	.0	.1	
	NO PCP	.0	.0	*	.0	*	.0	*	*	.0	.0	*	
	TOT %	*	*	*	.0	*	*	*	*	.0	.0	.1	
1<2	PCP	.0	*	.1	.1	.0	.1	.1	*	.0	*	.4	
	NO PCP	*	*	*	*	*	*	*	*	.0	.0	.2	
	TOT %	*	.1	.1	.1	*	.1	.1	.1	.0	*	.6	
2<5	PCP	.1	.1	.2	.1	.1	.3	.3	.1	.0	.0	1.3	
	NO PCP	*	*	.1	.1	*	.1	.1	.1	.0	*	.6	
	TOT %	.2	.1	.3	.2	.1	.4	.4	.2	.0	*	1.9	
5<10	PCP	.1	.3	.5	.2	.3	.7	.7	.3	.0	.1	3.3	
	NO PCP	.4	.6	1.3	.8	.7	1.3	1.3	.6	.0	.3	7.4	
	TOT %	.5	.9	1.8	1.0	1.0	2.0	2.0	1.1	.0	.4	10.7	
10+	PCP	.2	.3	.6	.3	.2	.5	.9	.3	.0	.1	3.4	
	NO PCP	5.6	7.7	15.9	9.0	6.5	9.1	13.2	7.1	.0	8.6	83.1	
	TOT %	5.8	8.0	16.5	9.2	6.8	9.5	14.6	7.4	.0	8.7	86.5	
	TOT OBS												7807
	TOT PCT	6.4	9.1	18.7	10.6	8.0	12.1	17.1	9.4	.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	*	.1	
	4-10	.0	.0	*	*	.0	.0	*	*	.0		.1	
	11-21	*	*	*	*	*	*	*	*	.0		.1	
	22+	*	*	*	.0	.0	*	*	.0	.0		*	
	TOT %	*	*	.1	*	*	.1	.1	*	.0	*	.3	
1/2<1	0-3	*	.0	.0	.0	.0	.0	.0	*		.0	*	
	4-10	.0	.0	.0	*	*	*	*	*	.0		.1	
	11-21	*	*	.0	*	*	*	*	*	.0		.1	
	22+	*	.0	*	.0	.0	.0	.0	.0	.0		*	
	TOT %	*	*	*	*	*	*	*	*	.0	.0	.2	
1<2	0-3	.0	.1	*	*	.0	.0	.0	.0	.0	*	*	
	4-10	*	*	.1	*	.0	*	*	*	.0		.2	
	11-21	*	*	*	*	*	.1	*	*	.0		.3	
	22+	.0	.0	*	*	.0	*	.0	.0	.0		*	
	TOT %	*	.1	.1	*	*	.1	.1	.1	.0	*	.6	
2<5	0-3	*	*	*	*	.0	.0	.0	*	.0	.1	.2	
	4-10	.1	.1	.1	.1	.1	.1	.2	.1	.0		1.0	
	11-21	.1	.2	.1	.1	*	.2	.2	.1	.0		.8	
	22+	.0	*	*	*	*	.1	*	*	.0		.2	
	TOT %	.2	.2	.3	.3	.2	.4	.4	.2	.0	.1	2.2	
5<10	0-3	.1	.1	.2	.1	.1	.1	.2	.1	.0	.5	1.5	
	4-10	.3	.5	.8	.6	.6	.8	.9	.6	.0		5.0	
	11-21	.1	.2	.7	.3	.3	.6	.7	.3	.0		3.4	
	22+	*	*	.1	*	*	.2	.1	.1	.0		.6	
	TOT %	.5	.8	1.8	1.0	1.0	2.0	2.0	1.1	.0	.5	10.6	
10+	0-3	1.4	1.1	1.7	1.1	1.1	1.0	1.6	1.2	.0	8.4	19.3	
	4-10	3.7	5.6	10.6	6.6	4.5	5.1	8.3	4.9	.0		49.6	
	11-21	.5	1.4	4.0	1.7	1.1	1.9	4.3	1.3	.0		17.3	
	22+	*	*	.1	.1	.1	.3	.2	*	.0		.6	
	TOT %	5.7	9.0	16.3	9.2	6.7	9.6	14.4	7.4	.0	8.4	86.1	
	TOT OBS												8172
	TOT PCT	6.4	9.1	18.5	10.4	8.0	12.0	17.0	8.9	.0	9.5	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1957-1979
(OVER-ALL) 1884-1979

AREA DCDE GUATEMALA SW COAST
11.9N 91 0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,MM 30/83) AND OCCURRENCE OF MM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL OBS	MM <5/8 ANY HGT	TOTAL OBS
00E03	.4	.2	2.1	6.3	12.0	9.6	1.5	.5	.2	.2	30.4	69.6	1919
06E09	1.3	.3	2.4	9.3	12.5	4.0	1.5	.2	.5	.1	32.1	67.9	1535
12E15	1.3	.4	4.4	11.7	15.4	4.9	2.2	.3	.3	.2	43.1	56.9	1641
18E21	.7	.5	2.0	10.9	15.2	5.1	2.0	.4	.3	.1	37.3	62.7	1832
TOT	69	27	145	716	937	339	124	25	20	10	2432	4375	6927
PCT	1.0	.4	2.1	10.5	13.6	4.7	1.8	.4	.3	.1	35.7	64.3	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	.2	.2	.2	1.6	7.4	90.3	2073
06E09	.2	*	.5	1.8	10.6	86.7	2010
12E15	.4	.3	1.2	2.6	14.4	80.3	2015
18E21	.4	.1	.6	2.5	9.5	86.9	2275
TOT	28	15	53	182	886	7209	8373
PCT	.3	.2	.6	2.2	10.6	86.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NM 30/83,BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	MM <5/8 AND 5+	TOTAL OBS
00E03	.6	3.5	12.4	18.4	66.7	1755
06E09	1.4	4.3	14.8	19.2	66.0	1436
12E15	1.4	6.6	21.6	22.5	55.9	1611
18E21	.7	3.5	15.6	23.1	61.3	1766
TOT	69	292	1054	1374	4136	9569
PCT	1.1	4.4	16.0	21.0	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
95/99	.0	.0	.0	.0	*	.0	.0	.0	1	*
90/94	.0	.0	.0	*	.3	.2	*	.0	39	.6
85/89	.0	.0	*	.1	2.2	7.8	1.7	.4	798	12.2
80/84	.0	.3	.0	.1	1.6	23.6	35.2	5.5	4299	65.9
75/79	.0	.0	.0	.0	*	1.1	9.2	10.2	1340	20.5
70/74	.0	.0	.0	.0	.0	.0	.1	.6	43	.7
65/69	.0	.0	.0	.0	.0	.0	.0	*	1	*
TOTAL	0	0	1	12	273	2133	3014	1048	6521	100.0
PCT	.0	.0	*	.2	4.2	32.7	46.2	16.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	.0	.0	.0	.0	.0	*
	*	*	.2	.1	*	*	*	*	.0	*
	1.0	1.5	2.9	1.2	.6	.9	1.5	1.1	.0	1.5
	4.1	6.1	12.9	7.6	5.1	6.8	10.8	5.9	.1	6.8
	1.1	1.9	2.9	1.4	1.9	4.0	5.1	1.8	.0	1.1
	*	.1	.1	*	*	.1	.2	.1	.0	.0
	.0	.0	.0	.0	.0	*	*	.0	.0	.0
	6.2	9.1	18.8	10.3	7.7	12.0	17.6	8.8	.0	9.4

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	96	89	86	82	78	75	73	82.0	2103
06E09	91	85	84	81	77	75	69	80.8	2066
12E15	89	85	83	80	76	74	72	80.1	2035
18E21	95	90	88	83	77	75	73	83.1	2332
TOT	96	89	86	82	77	75	69	81.6	4536

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.2	4.6	39.2	43.5	12.4	81	1744
06E09	.0	.1	1.9	24.7	55.8	18.1	84	1622
12E15	.0	.1	.9	20.6	53.5	25.1	85	1613
18E21	.0	.4	4.5	45.7	33.4	11.9	79	1712
TOT	0	13	281	2145	3097	1105	82	6691

PERIOD: (PRIMARY) 1952-1976
(OVER-ALL) 1884-1976

TABLE 17

AREA 0209 GUATEMALA SW COAST
11.4N 91.0W

PCT 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
11/13	.0	.0	.0	.0	.	.	.	6	.0	.1
9/10	.0	.0	.0	.0	.1	.1	.	23	.0	.3
7/8	.0	.0	.0	.2	.2	.2	.	65	.0	.6
6	.0	.0	.	.2	.2	.2	.0	56	.0	.8
5	.0	.0	.1	.2	.4	.2	.0	107	.0	1.5
4	.0	.0	.1	.2	.6	.3	.0	170	.	2.3
3	.0	.	.2	.3	.5	.3	.0	146	.0	2.0
2	.	.	.2	.6	.8	.4	.0	376	.0	5.2
1	.	.	.6	1.3	1.8	.6	.0	416	.	5.7
0	.	.	1.8	2.8	2.7	.8	.0	902	.	12.4
-1	.1	.1	2.3	3.8	2.4	.8	.0	866	.	11.9
-2	.1	.1	4.2	3.7	1.5	.5	.0	1123	.	15.5
-3	.2	.2	4.9	3.0	1.3	.4	.0	920	.	12.7
-4	.3	.3	5.1	3.5	1.3	.4	.0	797	.0	11.0
-5	.3	.3	4.4	2.6	1.0	.3	.0	532	.	7.3
-6	.0	.5	2.9	1.6	.6	.2	.0	321	.	4.4
-7/-8	.0	1.0	2.5	.8	.3	.1	.0	298	.	4.1
-9/-10	.	.6	.6	.	.	.	.0	91	.	1.3
-11/-13	.	.2	.1	.	.	.	.0	26	.0	.4
-14/-26	.0	.	.	.0	.0	.0	.0	6	.0	.1
TOTAL	1	2204		874			6		10	7242
	750		3866		69			7252		
PCT	.1	3.0	30.4	53.3	11.5	1.2	.1	100.0	.1	99.9

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

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

N

MOT	1-3	4-10	11-21	22-33	34-47	48+	PCT
CI	.6	.8					.9
1-2	.2	.2					.3
3-4	.	.	.	.	.	.	.2
5-6	.	.	.	.	.	.	.2
7	.	.	.	.	.	.	.
8-9	.	.	.	.	.	.	.
10-11	.	.	.	.	.	.	.
12	.	.	.	.	.	.	.
13-16	.	.	.	.	.	.	.
17-19	.	.	.	.	.	.	.
20-22	.	.	.	.	.	.	.
23-25	.	.	.	.	.	.	.
26-32	.	.	.	.	.	.	.
33-40	.	.	.	.	.	.	.
41-48	.	.	.	.	.	.	.
49-60	.	.	.	.	.	.	.
61-70	.	.	.	.	.	.	.
71-86	.	.	.	.	.	.	.
87+	.	.	.	.	.	.	.
TOT PCT	1.0	1.0	.0	.	.	.	2.1

NE

MOT	1-3	4-10	11-21	22-33	34-47	48+	PCT
CI	1.0	1.3					2.3
1-2	.5	1.6	1.1				3.2
3-4	.	2.2	1.6				3.8
5-6	.	.4	.4				.8
7	.	.	.1				.1
8-9	.	.	.	.	.	.	.
10-11	.	.	.	.	.	.	.
12	.	.	.	.	.	.	.
13-16	.	.	.	.	.	.	.
17-19	.	.	.	.	.	.	.
20-22	.	.	.	.	.	.	.
23-25	.	.	.	.	.	.	.
26-32	.	.	.	.	.	.	.
33-40	.	.	.	.	.	.	.
41-48	.	.	.	.	.	.	.
49-60	.	.	.	.	.	.	.
61-70	.	.	.	.	.	.	.
71-86	.	.	.	.	.	.	.
87+	.	.	.	.	.	.	.
TOT PCT	1.6	10.5	5.4	.	.	.	17.6

E

MOT	1-3	4-10	11-21	22-33	34-47	48+	PCT
CI	.	.	.	.	.	.	.
1-2	.	.	.	.	.	.	.
3-4	.	.	.	.	.	.	.
5-6	.	.	.	.	.	.	.
7	.	.	.	.	.	.	.
8-9	.	.	.	.	.	.	.
10-11	.	.	.	.	.	.	.
12	.	.	.	.	.	.	.
13-16	.	.	.	.	.	.	.
17-19	.	.	.	.	.	.	.
20-22	.	.	.	.	.	.	.
23-25	.	.	.	.	.	.	.
26-32	.	.	.	.	.	.	.
33-40	.	.	.	.	.	.	.
41-48	.	.	.	.	.	.	.
49-60	.	.	.	.	.	.	.
61-70	.	.	.	.	.	.	.
71-86	.	.	.	.	.	.	.
87+	.	.	.	.	.	.	.
TOT PCT	1.6	10.5	5.4	.	.	.	17.6

SE

MOT	1-3	4-10	11-21	22-33	34-47	48+	PCT
CI	.	.	.	.	.	.	.
1-2	.	.	.	.	.	.	.
3-4	.	.	.	.	.	.	.
5-6	.	.	.	.	.	.	.
7	.	.	.	.	.	.	.
8-9	.	.	.	.	.	.	.
10-11	.	.	.	.	.	.	.
12	.	.	.	.	.	.	.
13-16	.	.	.	.	.	.	.
17-19	.	.	.	.	.	.	.
20-22	.	.	.	.	.	.	.
23-25	.	.	.	.	.	.	.
26-32	.	.	.	.	.	.	.
33-40	.	.	.	.	.	.	.
41-48	.	.	.	.	.	.	.
49-60	.	.	.	.	.	.	.
61-70	.	.	.	.	.	.	.
71-86	.	.	.	.	.	.	.
87+	.	.	.	.	.	.	.
TOT PCT	1.6	10.5	5.4	.	.	.	17.6

SE

MOT	1-3	4-10	11-21	22-33	34-47	48+	PCT
CI	.	.	.	.	.	.	.
1-2	.	.	.	.	.	.	.
3-4	.	.	.	.	.	.	.
5-6	.	.	.	.	.	.	.
7	.	.	.	.	.	.	.
8-9	.	.	.	.	.	.	.
10-11	.	.	.	.	.	.	.
12	.	.	.	.	.	.	.
13-16	.	.	.	.	.	.	.
17-19	.	.	.	.	.	.	.
20-22	.	.	.	.	.	.	.
23-25	.	.	.	.	.	.	.
26-32	.	.	.	.	.	.	.
33-40	.	.	.	.	.	.	.
41-48	.	.	.	.	.	.	.
49-60	.	.	.	.	.	.	.
61-70	.	.	.	.	.	.	.
71-86	.	.	.	.	.	.	.
87+	.	.	.	.	.	.	.
TOT PCT	1.6	10.5	5.4	.	.	.	17.6

PERIOD: (OVER-ALL) 1963-1979 SEPTEMBER AREA 0009 GUATEMALA SW COAST

TABLE 18 (CONT) 11.9N 91.0W

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.2	.0	.0	.0	.0	1.6
1-2	.3	2..	.1	.0	.0	.0	2.7
3-4	.1	1.5	1.0	.0	.0	.0	2.5
5-6	.1	.2	.4	.0	.0	.0	.7
7	.0	.0	*	*	.0	.0	.1
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	5.1	1.7	*	.0	.0	7.6

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	1.0	.1	.0	.0	.0	1.8
1-2	.5	2.4	.5	.0	.0	.0	3.4
3-4	.1	1.1	1.2	.1	.0	.0	2.5
5-6	*	.3	.6	.1	.0	.0	.9
7	.0	.1	.3	.1	.0	.0	.5
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	*	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	4.9	2.4	.2	.0	.0	9.2

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	1.7	.1	.0	.0	.0	2.9
1-2	.6	5.1	1.7	.0	.0	.0	7.4
3-4	.2	2.7	2.7	*	.0	.0	5.6
5-6	*	.6	1.8	.2	.0	.0	2.7
7	.0	.1	1.3	.2	.0	.0	1.6
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.2	.1	.0	.0	.2
12	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	*	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.8	10.3	7.9	.5	.0	.0	20.6

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.0	.1	.0	.0	.0	1.8
1-2	.5	2.4	.5	.0	.0	.0	3.4
3-4	.1	1.1	1.2	.1	.0	.0	2.5
5-6	*	.3	.6	.1	.0	.0	.9
7	.0	.1	.3	.1	.0	.0	.5
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	*	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	4.9	2.4	.2	.0	.0	9.2

TOTAL PCT

HGT	PCT
<1	1.8
1-2	3.4
3-4	2.5
5-6	.9
7	.5
8-9	.1
10-11	.0
12	.0
13-16	.1
17-19	.0
20-22	.0
23-25	.0
26-32	.0
33-40	.0
41-48	.0
49-60	.0
61-70	.0
71-86	.0
87+	.0
TOT PCT	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	14.4	10.4	.5	.0	.0	.0	25.2	
1-2	3.6	26.9	5.2	.0	.0	.0	35.7	
3-4	1.1	11.5	11.3	.2	.0	.0	24.1	
5-6	.2	2.7	6.3	.5	.0	.0	9.5	
7	.0	.5	2.7	.9	.0	.0	4.1	
8-9	.0	.0	.5	.1	.0	.0	.6	
10-11	.0	.0	.3	.1	.0	.0	.4	
12	.0	.0	.1	.0	.0	.0	.2	
13-16	.0	.0	.1	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	19.3	51.9	26.8	1.9	.1	.0	100.0	1773

PERIOD: (OVER-ALL) 1949-1979 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.4	13.9	15.4	7.7	2.6	.6	.3	.1	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2678	3
6-7	.1	1.9	9.0	6.0	3.1	1.2	.7	.2	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	1444	5
8-9	*	1.0	3.4	3.4	2.0	.8	.4	.2	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	663	5
10-11	.0	.6	1.0	1.1	.9	.3	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	252	5
12-13	.0	.0	.6	.4	.4	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	105	6
>13	.0	.0	.0	.2	.4	.2	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	51	7
INDET	6.4	1.5	2.2	1.2	.5	.1	*	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	730	2
TOTAL	658	1120	1870	1313	576	208	100	43	21	10	2	0	0	0	0	0	0	0	0	5923	4
PCT	11.1	18.9	31.6	22.2	9.8	3.5	1.7	.7	.4	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1972-1979

AREA 0009 GUATEMALA SW COAST
11.9N 91.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	2.5	1.4	1.2	.0	.0	.0	.0	4.8	3.1	5.0	.1	.0	.5	.0	86.5
NE	3.5	1.9	1.3	.0	.0	.0	.0	6.5	4.1	4.8	.1	.1	.4	.1	84.2
E	4.9	2.3	1.6	.0	.0	.0	.0	8.5	4.2	3.9	.1	.0	.7	.0	82.9
SE	4.0	2.6	1.1	.0	.0	.0	.0	7.9	4.6	3.0	.0	.0	.5	.0	84.3
S	2.1	2.9	.8	.0	.0	.0	.0	5.8	4.6	4.4	.3	.0	.3	.0	84.8
SW	5.0	3.5	1.7	.0	.0	.0	.0	10.1	5.4	2.7	.5	.0	.4	.1	80.8
W	5.1	2.9	1.8	.0	.0	.0	.0	9.6	5.9	3.4	.6	.0	.3	.0	80.4
NW	2.5	1.1	1.0	.0	.0	.0	.0	4.7	2.2	4.1	.5	.0	.3	.0	88.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0
CALM	.4	.7	.5	.0	.0	.0	.0	1.6	1.6	6.5	.2	.0	1.6	.0	88.4
TOT PCT	3.6	2.2	1.3	.0	.0	.0	.0	7.0	4.1	4.1	.3	*	.5	*	84.1
TOT OBS:	7720														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00-03	2.3	1.7	.9	.0	.0	.0	.0	4.8	3.1	1.3	.2	.1	.5	.1	90.1
06-09	2.4	1.4	.7	.0	.0	.0	.0	4.5	3.1	11.1	.5	.0	.6	.0	80.2
12-15	6.0	3.3	2.3	.0	.0	.0	.0	11.4	5.6	4.8	.4	.0	.6	.1	77.7
18-21	3.4	2.5	1.2	.0	.0	.0	.0	7.1	4.5	.3	.2	.0	.4	.0	87.5
TOT PCT	3.5	2.3	1.3	.0	.0	.0	.0	6.9	4.1	4.3	.3	*	.5	*	84.0
TOT OBS:	7989														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	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	5.8	1.0	*	*	.0		8.7	6.8	5.8	3.3	7.9	7.1	12.4	6.8	9.5	7.9
NE	1.5	6.3	2.3	.1	*	.0		10.2	8.3	7.2	5.1	7.7	11.5	13.5	13.0	12.4	9.4
E	1.8	8.1	3.9	.2	*	.0		14.0	9.1	14.6	9.1	10.0	6.7	14.4	11.2	18.0	11.1
SE	1.2	5.6	1.6	.1	*	.0		8.4	8.0	11.1	13.0	8.2	7.1	6.6	4.9	7.8	11.2
S	1.3	4.9	1.5	.2	*	.0		7.9	8.2	9.4	7.5	8.2	10.7	6.4	10.2	7.2	7.4
SW	1.0	7.1	4.0	.5	*	.0		12.7	10.1	15.2	15.5	11.6	18.6	10.1	17.8	12.0	15.2
W	1.9	9.9	5.1	.3	*	.0		17.2	9.2	18.6	21.5	19.3	18.4	15.4	19.5	15.2	14.9
NW	1.7	6.7	1.8	*	.0	.0		10.2	7.3	8.4	11.1	10.2	7.7	12.0	10.8	9.7	16.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.7							10.7	.0	9.7	13.9	16.8	12.3	9.2	5.8	8.1	6.6
TOT OBS	1874	4851	1735	124	11	0	8205		7.6	1853	137	1844	163	1735	206	2084	183
TOT PCT	22.8	59.4	21.1	1.5	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.9	3.6	.2	*	*		8.7	6.8	5.6	7.9	11.8	9.4
NE	4.4	5.1	.7	*	*		10.2	8.3	7.1	8.0	13.9	12.2
E	5.3	7.4	1.2	*	.0		14.0	9.1	14.2	9.8	14.0	17.5
SE	3.9	4.1	.4	*	.0		8.4	8.0	11.2	8.1	6.9	8.1
S	3.6	3.7	.5	.1	.0		7.9	8.2	9.3	8.4	6.8	7.2
SW	4.1	7.0	1.5	.2	.0		12.7	10.1	15.3	12.2	10.9	12.3
W	6.5	9.2	1.4	.1	.0		17.2	9.2	18.8	19.3	15.9	15.2
NW	5.4	4.5	.3	*	.0		10.2	7.3	8.6	10.0	11.9	10.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	10.7						10.7	.0	9.9	16.9	8.9	8.0
TOT OBS	4009	3665	995	33	2	8205		7.6	1990	2007	1941	2267
TOT PCT	48.9	44.7	6.0	.4	*		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00E03	9.9	11.9	57.0	19.3	1.7	.2	.0	7.6	100.0	1990
06E09	16.4	13.9	51.5	16.9	1.1	.1	.0	6.7	100.0	2007
12E15	8.9	10.7	55.6	22.8	1.7	.2	.0	8.1	100.0	1941
18E21	8.0	12.0	53.6	25.0	1.5	*	.0	8.1	100.0	2767
TOT	881	993	4461	1735	134	11	0	7.6		8205
PCT	10.7	12.1	54.4	21.1	1.5	.1	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	PEAK CLOUD COVER
N	2.0	2.2	3.4	1.2		4.5
NE	2.1	2.7	4.0	1.6		4.7
E	2.3	3.1	5.9	3.3		5.2
SE	1.5	1.8	3.6	1.6		5.0
S	.8	1.4	3.3	1.9		5.5
SW	1.0	1.8	5.5	4.0		6.0
W	2.2	3.7	6.9	4.3		5.4
NW	1.9	2.8	3.4	1.8		4.8
VAR	.0	.0	.0	.0		.0
CALM	3.5	3.0	3.2	1.0		3.9
TOT OBS	1118	1473	2529	1332	6452	5.0
TOT PCT	17.3	22.8	39.2	20.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NM >5/8) 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	*	*	.2	.4	.9	.4	.1	*	*	.0	6.8	
NE	.1	*	.2	.4	.9	.4	.1	*	*	.0	7.8	
E	.1	.1	.3	1.4	1.7	.9	.3	.1	*	*	9.6	
SE	.1	*	.2	.6	.9	.4	.1	*	.1	*	5.9	
S	.1	*	.2	.9	1.1	.4	.3	.0	*	*	4.8	
SW	.2	*	.4	1.6	2.0	1.0	.4	.1	*	*	6.5	
W	.2	*	.5	2.2	2.4	.8	.2	.1	*	*	10.5	
NW	.1	.1	.2	.7	1.0	.3	.1	*	*	.0	7.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	*	.2	.5	.8	.2	.2	.0	.0	*	9.0	
TOT OBS	53	24	158	589	749	310	120	33	12	6	4399	6852
TOT PCT	.8	.4	2.4	9.2	11.6	4.8	1.9	.5	.2	.1	68.2	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >5070	= OR >0
= OR >6500	.2	.3	.3	.3	.3	.3	.3	.3
= OR >5000	.6	.8	.8	.8	.8	.8	.8	.8
= OR >3500	2.2	2.6	2.6	2.6	2.6	2.6	2.6	2.6
= OR >2000	6.4	7.4	7.5	7.5	7.5	7.5	7.5	7.5
= OR >1000	15.7	18.5	18.9	19.0	19.0	19.0	19.0	19.0
= OR >600	22.3	27.1	27.8	27.9	27.9	28.0	28.0	28.0
= OR >300	23.5	29.1	30.1	30.3	30.4	30.4	30.4	30.4
= OR >150	23.7	29.4	30.4	30.6	30.7	30.7	30.8	30.8
= OR > 0	23.9	29.9	31.0	31.4	31.5	31.5	31.6	31.6
TOTAL	1590	1986	2062	2084	2091	2092	2096	2096

TOTAL NUMBER OF OBS: 6642 PCT FREQ NM <5/8: 68.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
6.5	13.9	19.2	16.6	11.8	8.0	8.0	6.1	9.3	.6	7013

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	*	*	.0	.0	*	*	*	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
	TOT %	*	*	*	.0	.0	*	*	*	.0	.0	.1	
1/2<1	PCP	.0	*	.0	.0	*	*	*	.0	.0	.0	.1	
	NO PCP	.0	.0	*	.0	*	.0	.0	.0	.0	.0	*	
	TOT %	.0	*	*	.0	*	*	*	.0	.0	.0	.1	
1<2	PCP	*	*	.1	*	*	.1	.1	*	.0	*	.3	
	NO PCP	.0	*	*	.0	.0	.0	*	*	.0	.0	.1	
	TOT %	*	*	.1	*	*	.1	.1	*	.0	*	.4	
2<5	PCP	*	*	.2	.1	.1	.2	.2	.1	.0	*	.9	
	NO PCP	*	*	.1	.1	.1	.1	.1	.1	.0	.0	.6	
	TOT %	*	.1	.2	.2	.2	.3	.3	.1	.0	*	1.4	
5<10	PCP	.2	.3	.5	.2	.2	.5	.7	.2	.0	.1	2.6	
	NO PCP	.6	.6	1.0	.6	.7	1.5	1.8	.9	.0	.5	8.0	
	TOT %	.8	.9	1.5	.8	.9	1.9	2.4	1.1	.0	.5	10.6	
10+	PCP	.2	.3	.5	.4	.1	.6	.7	.2	.0	.1	3.0	
	NO PCP	7.7	8.8	11.9	7.0	6.7	9.9	13.8	8.8	.0	9.9	84.3	
	TOT %	7.8	9.1	12.4	7.4	6.8	10.5	14.5	9.0	.0	10.0	87.4	
	TOT OBS												7693
	TOT PCT	8.7	10.1	14.2	8.3	7.9	12.8	17.3	10.2	.0	10.4	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
	4-10	*	.0	*	*	.0	*	*	*	.0		.1	
	11-21	*	*	.0	.0	.0	*	*	.0	.0		.1	
	22+	.0	.0	*	.0	.0	.0	.0	*	.0		*	
	TOT %	*	*	*	*	.0	*	*	*	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
	4-10	.0	.0	*	.0	*	*	*	*	.0		.1	
	11-21	.0	*	.0	*	.0	*	*	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	*	*	.0	.0		*	
	TOT %	.0	*	*	*	*	*	*	*	.0	.0	.2	
1<2	0-3	.0	.0	*	*	*	.0	.0	*	.0	*	.1	
	4-10	.0	*	*	*	.0	*	*	*	.0		.2	
	11-21	*	*	.1	*	.0	*	*	*	.0		.2	
	22+	*	.0	.0	.0	.0	.0	*	.0	.0		*	
	TOT %	*	.1	.1	*	*	.1	.1	.1	.0	*	.5	
2<5	0-3	.0	.0	*	*	.0	.0	*	*	.0	*	.1	
	4-10	.1	*	.1	.1	.1	.1	.2	.1	.0		.8	
	11-21	*	.1	.1	.1	.1	.2	.2	*	.0		.7	
	22+	.0	*	.1	*	*	*	*	.0	.0		.2	
	TOT %	.1	.1	.3	.2	.2	.3	.4	.2	.0	*	1.8	
5<10	0-3	.1	.1	.1	.1	.1	.1	.2	.2	.0	.6	1.5	
	4-10	.5	.6	.7	.4	.4	.7	1.1	.5	.0		4.8	
	11-21	.2	.3	.5	.2	.3	.6	1.0	.3	.0		3.6	
	22+	*	*	.1	*	.1	.2	.1	*	.0		.6	
	TOT %	.8	.8	1.4	.8	.9	1.9	2.4	1.0	.0	.6	10.5	
10+	0-3	1.7	1.3	1.6	1.0	1.2	.9	1.7	1.5	.0	10.1	20.8	
	4-10	5.3	5.8	7.2	5.0	4.4	6.2	8.6	6.0	.0		48.5	
	11-21	.6	1.8	3.2	1.3	1.2	3.0	3.9	1.5	.0		16.7	
	22+	*	.1	.1	.1	.1	.3	.2	*	.0		.8	
	TOT %	7.8	9.0	12.1	7.3	6.8	10.3	14.5	8.9	.0	10.1	86.9	
	TOT OBS												7995
	TOT PCT	8.7	10.1	14.0	8.4	7.9	12.7	17.3	10.2	.0	10.7	100.0	

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00E03	.5	.2	2.1	8.4	10.3	4.2	1.7	.4	.3	.2	28.3	71.7	1799
06E09	.8	.2	1.4	7.4	10.2	5.2	1.9	.4	.1	.1	27.6	72.4	1603
12E15	1.0	.5	3.6	10.1	13.2	4.5	1.9	.5	.1	.1	35.4	64.6	1645
18E21	.8	.5	2.2	8.8	11.4	4.9	1.7	.5	.3	.1	31.3	68.7	1836
TOT	53	24	160	597	776	323	124	33	12	7	2109	4774	6883
PCT	.8	.3	2.3	8.7	11.3	4.7	1.8	.5	.2	.1	30.6	69.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.1	*	.3	1.6	8.5	89.5	2024
06E09	.1	.1	.2	1.9	11.4	86.2	2025
12E15	.2	.3	.8	2.4	12.4	83.9	1961
18E21	.2	.2	.5	1.4	9.4	88.2	2254
TOT	13	15	38	150	859	7159	8264
PCT	.2	.2	.5	1.8	10.4	87.0	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 <5DYD	<600 <1	<1000 <5	1000+ AND5+	NM <5/8 AND 5+	TOTAL OBS
00E03	.5	2.9	12.2	17.3	70.5	1735
06E09	.8	2.7	11.3	18.0	70.7	1533
12E15	1.0	5.3	17.0	19.6	63.3	1593
18E21	.8	3.6	13.1	19.1	67.8	1781
TOT	53	262	889	1229	4529	6642
PCT	.8	3.6	13.4	18.5	68.1	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	*	.1	.5	.1	.1	.0	56	.9
85/89	.0	.0	.0	.1	2.3	6.6	1.5	.3	708	10.8
80/84	.0	.0	.0	.2	2.5	23.2	34.8	5.7	4357	66.3
75/79	.0	.0	.0	.0	*	1.2	9.9	10.2	1404	21.4
70/74	.0	.0	.0	.0	.0	*	.1	.6	44	.7
TOTAL	0	0	1	29	344	2051	3042	1101	6569	100.0
PCT	.0	.0	*	.4	5.2	31.2	46.3	16.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.1	.2	.1	.0	*	*	.2	.0	.1
1.1	1.2	2.1	.9	.7	.8	1.4	1.1	.0	1.6
6.2	7.2	10.1	5.9	4.7	6.2	10.4	7.1	.0	8.4
1.2	1.6	2.3	1.4	2.1	5.0	5.2	1.5	.0	1.1
*	*	.2	*	.1	.1	.1	*	.0	.0
8.7	10.2	14.7	8.3	7.7	12.2	17.1	10.0	.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
00E03	93	88	86	82	77	75	68	81.6	2035
06E09	88	85	84	81	77	75	73	80.6	2073
12E15	90	85	83	82	76	74	70	80.1	1988
18E21	94	91	88	83	77	75	69	83.1	2303
TOT	94	89	86	81	77	75	68	81.4	8399

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.2	5.7	35.9	46.1	12.2	81	1719
06E09	.0	.2	1.7	22.6	55.6	19.8	84	1682
12E15	.0	.2	1.7	21.5	52.2	24.5	85	1676
18E21	.0	1.2	11.4	44.4	32.6	10.3	78	1774
TOT	0	31	357	2135	3155	1123	82	6851

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TABLE 17

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

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	*	.0	1	.0	*
14/16	.0	.0	.0	.0	.0	*	*	.0	3	.0	*
11/13	.0	.0	.0	.0	*	.1	.1	*	12	.0	.2
9/10	.0	.0	.0	*	.1	.1	.2	*	26	.0	.4
7/8	.0	.0	.0	.1	.1	.3	.4	*	68	.0	.9
6	.0	.0	.0	*	.1	.3	.2	.0	49	.0	.7
5	.0	.0	.0	.1	.4	.9	.2	.0	116	.0	1.6
4	.0	.0	*	.1	1.1	1.2	.1	.0	182	.0	2.5
3	.0	.0	.0	.4	1.1	1.1	.1	.0	197	*	2.7
2	.0	.0	*	.5	3.6	1.9	*	.0	438	*	6.0
1	.0	.0	.1	.6	4.2	1.8	.0	.0	495	*	6.8
0	.0	.0	.1	2.4	6.6	1.3	.0	.0	931	.1	12.8
-1	.0	.0	.1	3.4	9.7	.5	.0	.0	989	.1	13.5
-2	.0	*	.2	5.7	9.6	.4	.0	.0	1143	*	15.7
-3	.0	.0	.1	4.9	6.2	.1	.0	.0	822	*	11.3
-4	.0	.0	.4	5.2	4.2	.1	.0	.0	721	*	9.9
-5	.0	*	.5	3.4	2.6	*	.0	.0	470	*	6.5
-6	.0	.0	.5	2.3	.8	*	.0	.0	266	*	3.6
-7/-8	.0	*	.7	2.0	.5	.0	.0	.0	235	.0	3.2
-9/-10	.0	*	.5	.4	.1	.0	.0	.0	64	.0	.9
-11/-13	*	*	.1	.1	*	.0	.0	.0	23	.0	.3
-14/-16	.0	*	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	1		256		3820		99			24	7228
		9		2341		730		6	7252		
PCT	*	.1	3.4	32.3	52.7	10.1	1.2	.1	100.0	.3	99.7

PERIOD: (OVER-ALL) 1943-1979

TABLE 18

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

A

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	1.5	.0	.0	.0	.0	2.7
1-2	.6	2.7	.4	.0	.0	.0	3.6
3-4	*	1.2	.1	.0	.0	.0	1.4
5-6	.0	*	*	.0	.0	.0	.5
7	.0	.1	*	*	.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	1.8	5.4	.6	*	.0	.0	8.6

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.9	.0	.0	.0	.0	2.6
1-2	.2	4.1	.6	.0	.0	.0	4.9
3-4	.1	1.5	1.4	.0	.0	.0	2.9
5-6	.0	.3	.9	.0	.0	.0	1.2
7	.0	*	.1	.0	.0	.0	.2
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	1.0	7.8	3.0	.1	.0	.0	11.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.6	.1	.0	.0	.0	2.4
1-2	.4	4.1	.7	.0	.0	.0	5.3
3-4	.1	1.8	1.7	.0	.0	.0	3.6
5-6	.1	.6	1.4	.0	.0	.0	2.0
7	.0	*	.3	*	.0	.0	.4
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.1	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	8.2	4.4	.1	.0	.0	13.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.4	.0	.0	.0	.0	.8
1-2	.3	3.2	.5	.0	.0	.0	4.0
3-4	.0	1.4	.8	.1	.0	.0	2.3
5-6	*	.4	.6	*	.0	.0	1.0
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.1	.1	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	5.4	2.0	.1	.1	.0	8.4

PERIOD: (OVER-ALL) 1963-1979 OCTOBER AREA 0009 GUATEMALA SW COAST

TABLE 18 (CONT) 11.9N 91.0W

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.9	.0	.0	.0	.0	1.6
1-2	.5	2.2	.3	.0	.0	.0	3.0
3-4	.1	1.4	.6	.0	.0	.0	2.1
5-6	*	.1	.2	.1	.0	.0	.5
7	.0	.1	*	.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	1.4	4.8	1.1	.1	.0	.0	7.4

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.0	.1	.0	.0	.0	1.4
1-2	.3	3.9	.7	.0	.0	.0	5.0
3-4	.0	1.6	2.1	.1	.0	.0	3.8
5-6	*	.3	.9	.1	.0	.0	1.4
7	.0	.2	.4	.2	.0	.0	.8
8-9	.0	.0	.2	.1	.0	.0	.3
10-11	.0	.0	.1	.1	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	7.0	4.5	.4	.1	.0	12.9

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.4	.2	.0	.0	.0	1.9
1-2	.6	5.3	1.2	.0	.0	.0	7.2
3-4	.2	2.6	2.6	.0	.0	.0	5.4
5-6	*	.6	1.8	*	.0	.0	2.5
7	.0	.2	.6	.1	.0	.0	.9
8-9	.0	.0	.6	.1	.0	.0	.8
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	10.2	6.5	.2	.0	.0	18.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.7	.1	.0	.0	.0	2.5
1-2	.5	2.6	.7	.0	.0	.0	3.7
3-4	*	.9	.7	.0	.0	.0	1.6
5-6	.1	.2	.6	.0	.0	.0	.8
7	.0	*	.3	*	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	*	*	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	5.4	2.4	*	.0	.0	9.0	90.1

TOTAL PCT

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	15.7	10.5	.4	.0	.0	.0	26.7	
1-2	4.0	27.8	4.8	.0	.0	.0	36.6	
3-4	.7	12.0	9.9	.1	.0	.0	22.7	
5-6	.3	2.7	6.3	.3	.0	.0	9.6	
7	.0	.6	1.9	.6	.0	.0	3.1	
8-9	.0	.0	.3	.1	.1	.0	.5	
10-11	.0	.0	.3	.2	.1	.0	.6	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	20.9	53.8	23.9	1.3	.1	.0	100.0	1819

PERIOD: (OVER-ALL) 1949-1979 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.9	12.8	15.4	7.3	2.2	.7	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2582	3
6-7	.1	2.2	8.4	9.3	3.7	1.4	.4	.2	.2	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	1534	5
8-9	.1	.8	2.2	3.4	2.3	.9	.5	.1	.2	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	617	6
10-11	.0	.5	1.0	1.1	.6	.3	.2	.1	*	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	218	5
12-13	.0	.0	.5	.5	.3	.2	.1	.0	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	93	6
>13	.0	.0	.0	.0	.0	.1	.1	.0	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	63	8
INDET	2.5	1.3	2.0	1.7	.7	.2	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	798	2
TOTAL	739	1038	1740	1396	601	225	101	30	32	3	3	2	0	0	0	0	0	0	0	5905	*
PCT	12.5	17.6	29.5	23.6	10.2	3.7	1.7	.5	.5	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1874-1979

AREA 0009 GUATEMALA SW COAST
11.9N 90.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.8	.6	.1	.0	.0	.0	.0	1.5	.7	2.4	.1	.0	.2	.0		95.1
NE	.7	.6	.2	.0	.0	.0	.0	1.4	1.4	1.7	.1	.0	.4	.1		94.7
E	.8	1.3	.3	.0	.0	.0	.0	2.5	2.2	2.1	.1	.0	.4	.1		92.6
SE	1.2	1.6	.3	.0	.0	.0	.0	3.1	2.2	3.6	.0	.0	.5	.0		90.6
S	1.7	.9	1.6	.0	.0	.0	.0	4.1	3.7	4.2	.2	.0	.3	.0		87.4
SW	4.6	1.6	3.9	.0	.0	.0	.0	7.4	6.6	1.9	.5	.0	.4	.0		86.0
W	4.5	1.1	1.5	.0	.0	.0	.0	6.6	3.3	2.2	.3	.0	.1	.0		87.5
NW	1.5	.5	.2	.0	.0	.0	.0	2.2	1.4	1.9	.2	.0	.9	.0		93.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.2	.2	.1	.0	.0	.0	.0	.6	.7	2.8	.0	.0	1.6	.1		94.2
TOT PCT	1.3	.8	.4	.0	.0	.0	.0	2.5	1.7	2.3	.1	.0	.6	.1		92.8
TOT OBS:	7239															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00E03	.9	.5	.4	.0	.0	.0	.0	1.7	1.0	1.0	.1	.0	.1	.2		95.9
06E09	.9	.6	.3	.0	.0	.0	.0	1.7	1.0	5.5	.2	.0	1.1	.1		90.5
12E15	1.8	1.3	.7	.0	.0	.0	.0	3.7	3.2	2.4	.2	.0	.7	.1		89.8
18E21	1.4	1.0	.4	.0	.0	.0	.0	2.6	1.6	.3	.2	.0	.3	.0		95.0
TOT PCT	1.3	.9	.4	.0	.0	.0	.0	2.5	1.7	2.3	.2	.0	.5	.1		92.8
TOT OBS:	7487															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	3.2	11.5	2.0	.1	.0	.0		16.7	6.7	11.9	15.5	14.6	21.0	21.9	22.1	17.3	18.1
NE	2.5	12.5	5.8	.2	.0	.0		21.0	8.6	18.3	15.3	16.7	25.3	22.3	26.6	25.8	20.9
E	2.1	10.3	4.6	.3	*	.0		17.1	8.9	19.9	19.5	13.8	11.0	15.8	12.6	20.1	19.6
SE	1.0	3.8	.9	.1	.0	.0		5.8	7.5	7.7	3.2	6.8	2.8	4.1	2.3	5.4	6.0
S	.6	1.5	.4	.0	.0	.0		3.0	6.9	4.3	5.6	3.1	1.9	1.4	2.8	2.9	3.0
SW	.7	2.6	.8	.1	*	.0		4.1	7.9	5.9	3.9	4.3	4.0	2.7	5.8	3.4	4.3
W	1.5	5.5	1.1	.2	.0	.0		8.2	7.4	10.6	6.5	6.3	8.6	7.6	9.6	6.9	8.0
NW	2.1	8.7	1.3	.1	.0	.0		12.2	6.8	11.2	12.9	12.5	10.1	13.3	14.0	11.4	16.1
VAR	.0	.0	.0	.2	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	12.0							12.0	.0	10.0	17.6	20.0	14.4	10.9	9.2	6.9	9.0
TOT OBS	2011	4496	1290	74	2	0	7873		6.9	1737	142	1831	181	1674	206	1900	200
TOT PCT	25.5	57.1	16.4	.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	9.7	6.4	.6	*	.0		16.7	6.7	12.2	15.1	21.9	17.4
NE	8.7	10.8	1.4	*	.0		21.0	8.6	18.0	17.5	22.7	25.3
E	6.7	9.0	1.5	*	.0		17.1	8.9	19.9	13.5	15.5	19.6
SE	3.0	2.6	.2	.0	.0		5.8	7.5	7.4	6.4	3.9	5.5
S	1.7	1.1	.1	.0	.0		3.0	6.9	4.4	3.0	1.6	2.9
SW	2.3	1.6	.2	*	.0		4.1	7.9	5.7	4.8	3.0	3.4
W	4.6	3.3	.4	*	.0		8.2	7.4	10.5	8.3	7.2	7.0
NW	7.0	4.9	.2	*	.0		12.2	6.8	11.3	12.3	13.3	11.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	12.0						12.0	.0	10.6	19.5	10.7	7.1
TOT OBS	4381	3126	352	12	0	7873		6.9	1879	2014	1880	2100
TOT PCT	55.6	39.7	4.5	.2	.0		100.0		100.0	100.0	100.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1874-1979

TABLE 4

SPEC 0009 GUATEMALA SW COAST
11.9N 90.5W

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	10.6	12.6	60.6	15.3	.6	.0	.0	6.8	100.0	1879
06609	19.5	15.0	53.7	10.9	.9	*	.0	5.6	100.0	2014
12615	10.7	13.1	58.5	16.8	.9	.0	.0	6.9	100.0	1980
18621	7.1	13.2	56.0	22.3	1.3	*	.0	7.9	100.0	2100
TOT	943	1046	4496	1290	74	2	0	6.9		7973
PCT	12.0	13.6	57.1	16.4	.9	*	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	8.0	3.9	3.4	.8		3.0
NE	10.3	4.8	4.6	1.0		3.0
E	7.3	4.6	4.7	1.3		3.4
SE	2.1	1.6	1.7	.7		3.8
S	.9	.6	1.0	.5		4.4
SW	1.0	1.9	1.3	.8		4.6
W	2.7	1.9	2.2	1.2		4.0
NW	5.6	2.6	2.4	.8		3.2
VAR	.0	.0	.0	.0		.0
CALM	8.4	2.5	2.2	.4		2.6
TOT OBS	2686	1423	1452	456	6017	3.3
TOT PCT	44.6	23.6	24.1	7.6	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1499	2000 3499	3500 4999	5000 6499	6500 7999	8000+	4M <5/8 ANY HGT	TOTAL OBS
N	*	*	.1	.5	.6	.4	.1	*	.0	*	14.4	
NE	.1	*	.1	.6	.9	.6	.2	.1	*	*	18.1	
E	*	.1	.1	.8	1.0	.3	.1	*	.1	*	15.4	
SE	*	.0	*	.3	.2	.2	.1	*	*	.0	4.0	
S	*	.0	.1	.3	.4	.1	*	*	.0	.0	2.2	
SW	*	*	*	.4	.6	.2	*	*	*	.0	2.8	
W	.1	*	*	.5	.9	.2	.1	.0	.0	.0	6.2	
NW	*	.1	.2	.5	.5	.2	.1	*	*	*	10.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	*	.1	.3	.5	.1	*	.1	.0	*	10.6	
TOT OBS	22	19	42	247	348	161	53	20	11	13	5101	6017
TOT PCT	.4	.3	.7	4.1	5.8	2.3	.8	.3	.2	.2	84.8	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >5OYD	= OR >0
= OR >6500	.4	.4	.4	.4	.4	.4	.4	.4
= OR >5000	.7	.7	.7	.7	.7	.7	.7	.7
= OR >3500	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
= OR >2000	3.6	3.9	4.0	4.0	4.0	4.0	4.0	4.0
= OR >1000	8.5	9.4	9.6	9.6	9.6	9.7	9.7	9.7
= OR >600	11.7	13.3	13.6	13.7	13.7	13.7	13.7	13.7
= OR >300	12.2	14.0	14.4	14.4	14.4	14.5	14.5	14.5
= OR >150	12.4	14.3	14.7	14.7	14.7	14.8	14.8	14.8
= OR > 0	12.6	14.6	15.0	15.1	15.1	15.1	15.2	15.2
TOTAL	779	902	930	934	934	937	940	940

TOTAL NUMBER OF OBS: 6199 PCT FREQ 4M <5/8: 84.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
21.0	23.9	19.8	12.3	7.6	4.5	4.2	3.1	3.5	.1	6524

PERIOD: (PRIMARY) 1953-1976
(OVER-ALL) 1878-1976

APES 0009 GUATEMALA SW COAST
11.9N 90.9W

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.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	•	
	NO PCP	.0	.0	.0	•	.0	.0	.0	•	.0	.0	•	
	TOT %	•	•	.0	•	.0	.0	•	•	.0	.0	.1	
1<2	PCP	.0	•	•	•	.0	•	•	•	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	•	.0	.0	.0	•	
	TOT %	.0	•	•	•	.0	•	•	•	.0	.0	.1	
2<5	PCP	•	•	•	•	•	•	.1	•	.0	.0	.2	
	NO PCP	•	.1	.1	•	•	•	.1	.1	.0	•	.7	
	TOT %	.1	.1	.1	•	•	•	.1	.1	.0	•	.7	
5<10	PCP	.1	.1	.2	.1	•	.1	.2	.2	.0	.0	.9	
	NO PCP	.5	.8	1.0	.2	.2	.2	.5	.6	.0	.3	4.2	
	TOT %	.5	.9	1.2	.3	.2	.3	.8	.6	.0	.3	5.1	
10+	PCP	.1	.1	.2	.1	.1	.1	.2	•	.0	.1	1.0	
	NO PCP	15.8	19.7	16.2	5.5	2.6	3.5	7.1	11.6	.0	11.1	92.9	
	TOT %	15.4	19.8	16.3	5.6	2.7	3.6	7.3	11.6	.0	11.2	93.9	
	TOT OBS												7211
	TOT PCT	16.5	20.9	17.6	6.0	3.0	4.1	8.3	12.1	.0	11.5	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	•	
	4-10	.0	•	•	.0	.0	.0	.0	•	.0		.1	
	11-21	.0	•	•	.0	.0	•	.0	•	.0		•	
	22+	.0	•	•	•	.0	•	.0	•	.0		•	
	TOT %	•	•	•	.0	.0	•	•	•	.0	.0	.2	
1/2<1	0-3	•	•	.0	.0	.0	.0	.0	•	.0	.0	•	
	4-10	.0	•	.0	.0	.0	.0	.0	•	.0		.1	
	11-21	.0	•	.0	.0	.0	.0	.0	•	.0		•	
	22+	.0	•	.0	•	.0	.0	.0	•	.0	.0	•	
	TOT %	•	•	.0	•	.0	.0	.0	•	.0	.0	.1	
1<2	0-3	.0	•	.0	.0	.0	.0	.0	•	.0	.0	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	•	.0	•	.0	.0	.0	•	.0		•	
	22+	.0	•	.0	•	.0	•	.0	•	.0	.0	•	
	TOT %	.0	•	.0	•	.0	.0	.0	•	.0	.0	.1	
2<5	0-3	.1	•	.1	•	.0	•	•	•	.1	•	.2	
	4-10	.1	.1	.1	.0	.0	•	•	.1	.1		.4	
	11-21	.0	.0	.0	.0	•	•	•	.0	.0		•	
	22+	.0	.0	.0	•	•	•	•	•	.0	•	•	
	TOT %	.1	.1	.1	•	•	•	•	.1	.1	•	.7	
5<10	0-3	.1	.2	.1	.1	.1	.1	.1	.1	.0	.3	1.0	
	4-10	.3	.3	.3	.1	.1	.1	.2	.3	.0		2.4	
	11-21	.1	.3	.1	•	•	•	.1	.1	.0		1.2	
	22+	.0	•	.1	•	•	•	•	•	.0		•	
	TOT %	.5	.9	1.1	.3	.2	.3	.7	.6	.0	.3	4.9	
10+	0-3	3.0	2.3	1.4	.9	.6	.5	1.1	1.9	.0	11.5	24.0	
	4-10	11.0	12.3	9.6	3.7	1.7	2.9	5.0	8.2	.0		54.0	
	11-21	1.9	5.1	4.1	.8	.3	.7	.8	1.2	.0		15.0	
	22+	.1	.2	.3	•	.0	.1	.1	•	.0		.8	
	TOT %	16.0	19.8	15.4	5.5	2.7	3.7	7.3	11.4	.0	11.5	93.8	
	TOT OBS												7589
	TOT PCT	16.6	20.6	17.3	5.9	2.9	4.1	8.2	12.2	.0	11.6	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1953-1976
(OVER-ALL) 1878-1979

AREA 0009 GUATEMALA SW COAST
11.9N 90.9W

TABLE 10

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

HOUR (GMT)	0CO 149	150 299	300 599	6CO 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	MM <5/8 ANY HGT	TOTAL OBS
00E03	.0	.4	.5	2.8	5.3	1.6	.9	.5	.1	.2	12.4	87.6	1658
06E09	.3	.3	.5	3.1	4.2	1.9	.6	.5	.2	.2	11.6	88.4	1589
12E15	.7	.2	1.0	5.5	6.7	3.1	1.1	.3	.2	.3	19.0	81.0	1574
18E21	.5	.5	.6	4.2	5.7	2.6	.9	.1	.2	.1	15.6	84.4	1640
TOT	23	21	44	253	354	148	56	22	11	13	945	5515	6461
PCT	.4	.3	.7	3.9	5.5	2.3	.9	.3	.2	.2	14.6	85.4	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
00E03	.3	.0	.1	.6	4.0	94.8	1899
06E09	.1	*	.1	.6	5.5	93.6	2022
12E15	.3	.2	.2	1.5	5.5	92.4	1887
18E21	.2	*	.2	.7	4.5	94.4	2092
TOT	17	5	11	70	383	7354	7840
PCT	.2	.1	.1	.9	4.9	93.8	100.0

TABLE 12

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

HOUR (GMT)	<150 <5CYD	<600 <1	<1000 <5	1000+ AND5+	MM <5/8 AND 5+	TOTAL OBS
00E03	.1	1.1	4.5	8.8	86.8	1595
06E09	.3	1.1	4.9	7.4	87.5	1516
12E15	.8	2.1	8.3	11.6	80.1	1514
18E21	.5	1.4	7.0	9.5	83.5	1574
TOT	25	95	391	580	5238	6199
PCT	.4	1.5	6.1	9.4	84.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	*	*	.0	.0	.0	.0	3	*
90/94	.0	.0	.0	.2	.7	.3	.1	*	78	1.3
85/89	.0	.0	*	.2	3.3	6.1	1.2	.3	683	11.2
80/84	.0	.0	*	.6	7.0	31.0	29.2	4.6	4426	72.4
75/79	.0	.0	.0	.0	.3	2.2	7.5	5.0	914	15.0
70/74	.0	.0	.0	.0	.0	.0	.0	.1	8	.1
65/69	.0	.0	.0	.0	.0	*	.0	.0	1	*
TOTAL	0	2	4	66	688	2418	2325	612	6113	100.0
PCT	.0	.0	.1	1.1	11.3	39.6	38.0	10.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	*	.0	.0	*	.0	*	.0	.0	.0
	.*	.2	.3	.1	.0	*	.1	.2	.0	.1
	1.8	2.1	2.5	.7	.*	.*	.8	1.*	.0	1.1
	12.1	15.*	13.0	*.2	1.9	2.*	5.5	8.8	.0	9.1
	2.3	2.9	2.2	1.0	.6	1.1	1.9	1.6	.0	1.*
	*	*	*	*	*	*	.0	*	.0	*
	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
	16.6	20.6	17.9	6.0	2.8	4.0	8.3	12.1	.0	11.7

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	95	88	86	82	76	76	73	81.9	1935
06E09	90	85	84	81	78	76	70	80.9	2093
12E15	94	85	83	81	77	75	68	80.6	1919
18E21	95	92	89	83	79	76	73	83.6	2127
TOT	95	90	86	82	78	76	68	81.8	8074

TABLE 16

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	12.4	43.2	33.9	9.1	78	1598
06E09	.0	.5	6.3	37.0	44.1	12.1	81	1640
12E15	.0	.5	5.4	33.1	47.6	13.3	81	1531
18E21	.0	2.4	20.1	45.8	26.3	5.4	76	1562
TOT	0	72	707	2520	2404	633	79	6331

NOVEMBER

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1978-1979

AREA 0009 GUATEMALA SW COAST
11.9N 90.5W

TABLE 1*

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

AIR-SEA DIF	65 68	69 72	+3 76	77 80	81 84	85 88	89 92	>92	TOT	% FOG	#O FOG
17/19	.0	.0	.0	.0	.0	.0	*	.0	1	.0	*
14/16	.0	.0	.0	.0	*	*	*	.0	7	.0	.1
11/13	.0	.0	.0	.0	.1	.1	.1	*	24	.0	.4
9/10	.0	.0	.0	.0	.1	.2	.3	*	45	.0	.7
7/8	.0	.0	.0	.1	.2	.4	.5	.0	80	.0	1.2
6	.0	.0	.0	*	.3	.6	.6	.0	78	.0	1.1
5	.0	.0	.0	.1	.8	.9	.2	.0	133	.0	2.0
4	.0	.0	.0	.2	1.6	1.3	.2	.0	222	.0	3.3
3	.0	.0	.0	.4	1.5	1.2	.2	.0	218	.0	3.2
2	.0	.0	*	.7	4.1	1.8	*	.0	454	.0	6.7
1	.0	.0	*	1.2	5.7	1.4	*	.0	571	.0	8.4
0	.0	.0	.1	3.3	11.9	2.1	*	.0	1133	*	16.5
-1	.0	.0	.1	3.6	9.6	.7	*	.0	946	*	13.9
-2	.0	.0	.1	5.6	10.2	.2	*	.0	1047	.1	15.3
-3	.0	.0	*	4.0	5.3	.2	*	.0	663	*	9.6
-4	.0	.0	.2	3.8	3.7	*	*	.0	527	.0	7.8
-5	.0	.0	.2	2.7	2.2	*	*	.0	364	*	5.0
-6	.0	.0	.2	1.8	.6	*	*	.0	176	.0	2.6
-7/-8	.0	.0	.2	1.1	.5	.0	.0	.0	125	.0	1.8
-9/-10	.0	.0	.2	.2	.1	.0	.0	.0	24	.0	.4
-11/-13	.0	.0	.1	*	.1	.0	.0	.0	13	.0	.2
-14/-16	.0	.0	.0	*	.0	.0	.0	.0	1	.0	*
TOTAL	1	1	95	1625	3973	686	128	10	6796	11	6788
PCT	*	*	1.4	23.9	58.4	10.1	1.9	.1	100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

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

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	3.0					4.1
1-2	1.0	5.4	1				7.4
3-4	.1	2.6					3.3
5-6							.7
7							.3
8-9							
10-11							
12							
13-16							
17-19							
20-22							
23-25							
26-32							
33-40							
41-48							
49-60							
61-70							
71-86							
87+							
TOT PCT	2.3	12.0	2.0	.0	.0	.0	16.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	2.2	.1				3.0
1-2	.5	3.3	1.1				4.9
3-4	.2	3.0	2.4				5.6
5-6		.3	1.4				1.9
7			.3				.5
8-9			.1				.1
10-11			.1				.1
12							
13-16							
17-19							
20-22							
23-25							
26-32							
33-40							
41-48							
49-60							
61-70							
71-86							
87+	.0	.0					
TOT PCT	1.5	13.0	5.5	.6			20.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	2.2	.1	.0			2.2
1-2	.4	3.2	1.2				4.8
3-4	.2	3.2	2.0				5.4
5-6		.2	1.2				1.4
7			.3				.3
8-9			.1				.1
10-11			.1				.1
12							
13-16							
17-19							
20-22							
23-25							
26-32							
33-40							
41-48							
49-60							
61-70							
71-86							
87+							
TOT PCT	.9	5.6	1.6	.1			8.2

PERIOD: (OVER-ALL) 1963-1979 AREA CODE GUATEMALA SE COAST
TABLE 18 (CONT.) 11.5N 90.5W

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

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.1	.0	.0	.0	.2
1-2	.1	1.2	.1	.0	.0	.0	1.4
3-4	.0	.2	.2	.0	.0	.0	.4
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.4	.4	.0	.0	.0	1.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	3.2	.2	.0	.0	.0	3.8
1-2	.5	3.2	.6	.0	.0	.0	4.3
3-4	.1	2.1	.7	.0	.0	.0	2.8
5-6	.0	.5	.2	.0	.0	.0	.6
7	.0	.1	.2	.0	.0	.0	.2
8-9	.0	.1	.2	.0	.0	.0	.2
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	6.4	1.2	.0	.0	.0	9.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.6	3.6	.2	.0	.0	.0	4.4	24.4
1-2	.5	3.6	.6	.0	.0	.0	4.8	26.9
3-4	.1	2.4	.7	.0	.0	.0	3.2	17.8
5-6	.0	.5	.4	.0	.0	.0	.8	4.7
7	.0	.1	.4	.0	.0	.0	.4	2.3
8-9	.0	.1	.4	.0	.0	.0	.4	2.3
10-11	.0	.0	.1	.0	.0	.0	.1	.7
12	.0	.0	.0	.0	.0	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	6.4	1.7	.1	.0	.0	12.1	90.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	15.0	11.7	.2	.0	.0	.0	26.9	
1-2	4.5	32.1	4.4	.0	.0	.0	40.4	
3-4	.4	13.9	6.5	.1	.0	.0	21.4	
5-6	.2	2.5	3.8	.3	.1	.0	7.1	
7	.0	.4	1.6	.1	.0	.0	2.3	
8-9	.0	.1	.2	.1	.0	.0	.7	
10-11	.0	.0	.2	.1	.0	.0	.4	
12	.0	.0	.1	.0	.0	.0	.1	
13-16	.0	.0	.1	.1	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	20.9	60.9	17.1	1.1	.1	.0	100.0	1700

PERIOD: (OVER-ALL) 1966-1979 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	PEAK HGT
<6	6.3	18.5	16.1	6.1	1.9	.5	.2	.1	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	2735	3
6-7	.2	3.3	7.7	6.2	2.5	.6	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1174	*
8-9	.1	2.0	3.0	2.7	1.6	.6	.3	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	530	5
10-11	.0	.4	.6	.5	.4	.2	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	157	6
12-13	.0	.1	.2	.1	.2	.1	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	71	5
>13	.0	*	.0	.2	.2	.1	.0	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	8
INDET	8.4	2.1	2.2	1.3	.4	.1	*	*	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	810	2
TOTAL	825	1398	1674	956	395	132	48	25	17	5	2	0	0	0	0	0	0	0	0	5489	3
PCT	15.0	25.5	30.5	17.4	7.2	2.4	1.2	.5	.3	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

AREA 0009 GUATEMALA SW COAST
12.0N 91.0W

PERIOD: (PRIMARY) 1952-1970
(COVER-ALL) 1873-1976

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N																98.7
NE																98.1
E																97.5
SE																97.6
S																97.5
SW																95.8
W																97.0
NW																98.2
VAR																.0
CALM																96.6
TOT PCT	.1	.2	.0	.0	.0	.0	.1	.4	.6	.5	.3	.0	.6	.0	.0	97.6
TOT OBS:	6960															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (G=T)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03																98.1
06&09																97.1
12&15																96.8
18&21																98.7
TOT PCT	.1	.2	.0	.0	.0	.0	.0	.4	.6	.5	.4	.0	.6	.0	.0	97.7
TOT OBS:	7044															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	WIND SPEED (KNOTS) 0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (G=T) 00	03	06	09	12	15	18	21
N								17.1	6.8	11.8	10.6	18.3	18.4	21.6	20.4	16.2	16.5
NE								28.7	9.3	25.2	24.3	23.6	35.6	30.7	40.7	34.7	33.6
E								23.2	9.2	26.3	19.6	21.0	20.7	19.8	17.6	26.7	18.2
SE								4.8	7.6	6.8	6.8	6.8	2.6	2.2	2.1	2.8	3.1
S								2.3	6.2	2.3	1.6	1.0	.0	1.0	1.0	1.2	1.7
SW								3.5	6.2	2.3	2.3	1.4	.0	1.0	1.3	.7	1.5
W								3.6	6.0	4.3	6.3	4.1	3.1	3.9	2.6	3.6	3.6
NW								9.2	9.5	9.3	11.7	10.1	14.1	9.2	7.2	10.1	10.1
VAR								.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM								11.2	7.4	6.3	13.5	17.4	7.4	11.3	6.7	7.8	9.1
TOT OBS	1742	4048	1486	65	1	0	7413	100.0		1639	111	1683	174	1565	196	1859	176
TOT PCT	23.5	54.6	20.0	1.1	.1	.0				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WND DIR	WIND SPEED (KNOTS) 0-6	7-16	17-27	28+40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (G=T) 00 03	06 09	12 15	18 21
N	10.2	6.5					17.1	6.8	11.7	18.4	21.7	16.4
NE	10.1	15.9	2.4				28.7	9.3	25.1	22.8	31.8	34.4
E	7.7	13.1	2.3				23.2	9.2	25.6	21.0	19.5	26.0
SE	1.6	2.6	.5				4.8	7.6	6.8	6.8	2.2	2.8
S	.8	.6	.1				2.3	5.2	2.2	.8	.6	1.2
SW	1.0	.9	.1				2.3	5.2	2.0	1.3	.6	1.6
W	2.0	1.5	.6	.1			3.5	6.2	4.3	3.6	3.1	2.7
NW	2.6	3.4	.4	.0			6.4	8.1	9.3	10.6	6.1	7.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	6.6	3.6	.0	.0	.0		11.2	7.4	6.3	15.5	10.8	7.9
TOT OBS	3795	3194	414	10	1	7413	100.0		1745	1859	1774	2035
TOT PCT	51.2	43.0	5.6	.1	.0				100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1873-1979

AREA 0009 GUATEMALA SW COAST
12.0N 91.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00L03	9.7	11.6	60.1	17.7	.7	.0	.0	7.2	100.0	1745
06L09	16.5	13.4	58.0	11.7	.4	.0	.0	6.0	100.0	1659
12L15	10.8	13.4	54.4	20.0	1.4	.1	.0	7.5	100.0	1774
18L21	7.9	11.0	49.3	29.7	2.0	.1	.0	8.7	100.0	2035
TOT	827	935	4096	1486	85	4	0	7.4		7413
PCT	11.2	12.3	55.3	20.0	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	11.9	2.8	2.0	.3		1.9
NE	19.1	5.1	3.3	.6		2.0
E	16.4	4.1	2.9	.4		2.0
SE	2.6	.9	.6	*		2.3
S	.8	.3	.3	*		2.6
SW	.6	.3	.3	*		2.5
W	2.5	.6	.7	.1		2.3
NW	5.7	1.7	1.2	.2		2.1
VAR	.0	.0	.0	.0		.0
CALM	8.0	1.9	1.1	.2		1.7
TOT OBS	3905	1028	707	124	5764	2.0
TOT PCT	67.7	17.8	12.3	2.2	100.0	

TABLE 6

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

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
*	.0	.1	.3	.4	.2	.1	*	*	*	15.9	
.1	.0	.1	.5	.6	.3	.2	*	*	.1	26.2	
*	.0	*	.4	.7	.3	.2	*	*	*	22.2	
.0	.0	*	.2	.1	*	*	*	*	.0	3.9	
.0	.0	.0	*	.1	.0	*	.0	*	.0	1.2	
*	.0	.0	*	*	*	*	.0	.0	.0	1.3	
.0	.0	.1	.1	.2	.1	*	*	.0	.0	3.4	
*	.0	*	.2	.2	.1	.1	*	*	*	8.1	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	*	*	.2	.2	.1	.1	*	.1	.0	10.5	
8	1	18	108	144	64	37	11	11	10	5352	5764
.1	*	.3	1.9	2.5	1.1	.6	.2	.2	.2	92.9	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	.4	.4	.4	.4	.4	.4	.4	.4
= OR >5000	.5	.5	.5	.5	.5	.5	.5	.5
= OR >3500	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
= OR >2000	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3
= OR >1000	4.6	4.8	4.8	4.8	4.8	4.8	4.8	4.8
= OR >600	6.1	6.6	6.6	6.6	6.6	6.6	6.6	6.6
= OR >300	6.4	6.9	6.9	7.0	7.0	7.0	7.0	7.0
= OR >150	6.4	6.9	6.9	7.0	7.0	7.0	7.0	7.0
= OR > 0	6.5	7.0	7.1	7.1	7.1	7.1	7.1	7.1
TOTAL	384	414	416	419	419	419	419	419

TOTAL NUMBER OF OBS: 5883 PCT FREQ NH <5/8: 92.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
38.3	26.3	15.8	8.2	4.1	2.3	2.4	1.7	.8	.1	6163

PERIOD1 (PRIMARY) 1952-1979
(OVER-ALL) 1973-1979

AREA 0009 GUATEMALA SW COAST
12.0N 91.0W

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO 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	*	*	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
1<2	PCP	.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	*	*	
2<5	PCP	.0	.0	*	.0	.0	.0	.0	.0	.0	*	*	
	NO PCP	.0	*	*	*	.0	.0	*	*	.0	*	.1	
	TOT %	.0	*	*	*	.0	.0	*	*	.0	*	.1	
5<10	PCP	*	.1	*	*	.0	*	.0	*	.0	.0	.1	
	NO PCP	.6	.8	.9	.2	.1	*	*	.3	.0	.2	3.2	
	TOT %	.6	.9	.9	.2	.1	.1	*	.3	.0	.2	3.4	
10+	PCP	.0	*	*	*	.0	.0	*	*	.0	*	.1	
	NO PCP	16.6	27.7	22.7	3.9	1.2	1.3	3.8	8.8	.0	10.4	96.3	
	TOT %	16.6	27.7	22.7	3.9	1.2	1.3	3.8	8.8	.0	10.5	96.4	
	TOT OBS												6881
	TOT PCT	17.2	28.6	23.6	4.1	1.3	1.4	3.9	9.1	.0	10.8	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	*	*	.0	.0	.0	.0	.0	.0		*	
	11-21	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	22+	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	TOT %	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
1<2	0-3	.0	.0	.0	.0	.0	.0	*	.0	.0	*	*	
	4-10	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	11-21	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	*	*	.0	.0	.0	*	.0	*	.1	
2<5	0-3	*	.0	*	.0	.0	.0	.0	*	.0	*	.1	
	4-10	*	.0	*	*	.0	.0	*	.1	.0		.1	
	11-21	.0	*	*	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	.1	*	.0	.0	*	.1	.0	*	.2	
5<10	0-3	.1	.2	.1	.1	*	*	*	*	.0	.2	.8	
	4-10	.4	.5	.5	.1	*	*	*	.3	.0		1.8	
	11-21	.1	.2	.2	.1	.0	.0	.0	*	.0		.5	
	22+	*	.0	*	.0	*	*	.0	.0	.0		.1	
	TOT %	.6	.9	.6	.2	.1	*	*	.3	.0	.2	3.2	
10+	0-3	3.1	2.6	1.9	.6	.3	.3	1.0	1.7	.0	10.6	22.4	
	4-10	11.4	16.3	12.4	2.6	.9	1.0	2.4	6.3	.0		53.3	
	11-21	1.9	8.2	7.7	.6	.1	.1	.4	.7	.0		19.6	
	22+	.1	.5	.4	*	*	.0	.0	*	.0		1.1	
	TOT %	16.5	27.7	22.4	3.8	1.2	1.4	3.8	8.8	.0	10.8	96.4	
	TOT OBS												7198
	TOT PCT	17.1	28.6	23.4	4.1	1.3	1.4	3.8	9.2	.0	11.1	100.0	

DECEMBER

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1873-1979

AREA 0009 GUATEMALA SW COAST
12.0N 91.0W

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	MM <5/8 ANY HGT	TOTAL OBS
00E03	.1	.1	.3	1.6	1.4	1.2	.5	.3	.2	.1	5.6	94.4	1531
06E09	.3	.1	.2	1.2	2.1	.7	.5	.1	.3	.2	5.6	94.4	1486
12E15	.1	.0	.2	2.7	4.[illegible]	1.5	.7	.3	.1	.3	10.0	90.0	1504
18E21	.1	.0	.5	1.6	2.2	1.0	.7	.1	.2	.1	6.4	93.6	1620
TOT	9	1	18	110	147	66	38	12	12	10	423	5718	6141
PCT	.1	*	.3	1.8	2.4	1.1	.6	.2	.2	.2	6.9	93.1	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	2.7	97.0	1760
06E09	.1	.0	.0	.3	1.[illegible]	98.8	1859
12E15	.1	.0	.2	.2	3.2	96.5	1775
18E21	.2	.1	.1	.2	2.8	96.7	1990
TOT	5	1	5	16	250	7107	7384
PCT	.1	*	.1	.2	3.4	96.2	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	MM <5/8 AND 5+	TOTAL OBS
00E03	.1	.4	2.1	3.7	94.2	1463
06E09	.3	.6	2.1	4.0	93.9	1429
12E15	.1	.4	3.2	7.2	89.6	1427
18E21	.2	.8	2.6	4.3	93.2	1564
TOT	11	32	147	281	5455	5883
PCT	.2	.5	2.5	4.8	92.7	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	*	*	.1	.0	.0	.0	6	.1
90/94	.0	.0	*	.2	.5	.1	*	.0	52	.9
85/89	.0	.0	*	.4	2.5	3.4	.8	.2	429	7.6
80/84	.0	.0	.1	.9	10.7	32.7	19.6	3.7	3929	67.6
75/79	.0	.0	.0	*	.7	6.8	10.9	4.9	1353	23.3
70/74	.0	.0	.0	.0	.0	.0	.2	.5	41	.7
TOTAL	0	0	7	97	841	2493	1828	544	5810	100.0
PCT	.0	.0	.1	1.7	14.5	42.9	31.5	9.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
95/99	*	*	*	.0	.0	.0	.0	.0	.0	.0
90/94	.2	.2	.3	*	.0	.0	*	.2	.0	.1
85/89	1.1	1.8	2.0	.4	.1	.1	.3	.9	.0	.8
80/84	11.7	18.6	15.6	3.0	1.0	1.1	2.8	6.2	.0	7.8
75/79	3.9	7.5	5.6	.7	.2	.2	.8	1.6	.0	2.8
70/74	.1	.2	.1	*	.0	.0	.1	.1	.0	.1
	16.9	28.3	23.7	4.0	1.3	1.3	4.0	8.9	.0	11.5

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	95	88	85	81	77	75	70	81.4	1781
06E09	88	84	83	80	76	74	71	80.0	1921
12E15	88	84	83	80	76	74	70	79.8	1799
18E21	95	91	88	82	78	76	69	82.7	2045
TOT	95	89	86	81	77	74	69	81.0	7546

TABLE 16

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	1.6	14.9	48.1	24.8	6.6	76	1481
06E09	.0	.5	7.6	42.4	37.0	12.4	80	1480
12E15	.0	.6	7.2	37.4	41.3	13.4	81	1450
18E21	.0	4.1	22.7	44.0	23.6	5.6	75	1545
TOT	0	105	448	2562	1878	563	78	5956

DECEMBER

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1873-1979

TABLE 17

AREA CODE GUATEMALA S/W COAST
12.0N 91.0W

PCT 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
17/19	.0	.0	.0	*	*	*	*	4	.0	.1
14/16	.0	.0	.0	.1	.0	.1	*	10	.0	.2
11/13	.0	.0	*	*	.2	.1	.1	26	.0	.4
9/10	.0	.0	.1	.2	.2	.2	*	40	.0	.6
7/8	.0	.0	.3	.6	.5	.3	*	102	*	1.6
6	.0	*	.2	.5	.4	.1	.0	75	.0	1.2
5	.0	*	.3	.8	.7	.2	.0	131	*	2.0
4	*	.1	.7	1.8	1.1	.1	*	250	.0	3.9
3	.0	.1	.5	2.1	.9	*	.0	257	*	4.0
2	.0	.1	2.0	5.6	1.2	*	*	576	*	9.0
1	*	.2	2.8	5.1	.8	.0	.0	571	*	8.9
0	.0	.4	5.5	9.6	.5	*	.0	1029	.1	16.0
-1	*	.3	4.3	8.2	.3	*	.0	848	*	13.2
-2	.0	.5	6.1	6.9	.1	.0	.0	867	.1	13.5
-3	*	.3	4.6	3.9	*	.0	.0	560	*	8.7
-4	*	.3	5.1	2.4	*	.0	.0	503	*	7.8
-5	*	.3	2.7	1.4	.0	.0	.0	282	.0	4.4
-6	.0	.2	1.5	.3	.0	.0	.0	130	*	2.0
-7/-8	*	.3	1.0	.3	.0	.0	.0	105	*	1.6
-9/-10	*	.1	.1	*	.0	.0	.0	19	.0	.3
-11/-13	*	.1	*	.0	.0	.0	.0	10	.0	.2
TOTAL	15		2441		442		14		26	6369
		218		3193		72		6395		
PCT	.2	3.4	38.2	49.9	6.9	1.1	.2	100.0	.4	99.6

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	2.5	.0	.0	.0	.0	3.9
1-2	.8	6.5	.7	.0	.0	.0	8.0
3-4	.2	1.9	.7	.0	.0	.0	2.8
5-6	.0	.4	.4	.0	.0	.0	.7
7	.0	.0	.1	.1	.0	.0	.1
8-9	.0	.1	.1	.1	.0	.0	.2
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	11.3	1.9	.1	.0	.0	15.6

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.7	2.2	.1	.0	.0	.0	4.0
1-2	.8	9.2	1.6	.0	.0	.0	11.7
3-4	.1	4.7	4.2	.1	.0	.0	9.1
5-6	.0	1.1	2.3	.3	.0	.0	3.6
7	.0	.1	1.0	.2	.0	.0	1.2
8-9	.0	.2	.6	.1	.1	.0	.9
10-11	.0	.1	.0	.1	.0	.0	.1
12	.0	.0	.1	.1	.0	.0	.1
13-16	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.6	17.6	10.0	.7	.1	.0	31.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.6	.0	.0	.0	.0	1.9
1-2	.9	6.1	1.6	.0	.0	.0	8.8
3-4	.0	4.0	4.1	.4	.0	.0	8.5
5-6	.3	1.0	2.7	.3	.0	.0	4.3
7	.0	.1	1.0	.1	.0	.0	1.1
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	1.4	12.9	9.6	.7	.0	.0	24.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	.0	.0	.0	.0	.6
1-2	.2	1.7	.1	.0	.0	.0	2.1
3-4	.3	.7	.9	.0	.0	.0	1.8
5-6	.0	*	.2	.1	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.1	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	2.9	1.2	.1	.0	.0	4.8

PERIOD: (OVER-ALL) 1963-1979 DECEMBER AREA 0009 GUATEMALA Sw COAST

TABLE 18 (CONT) 12.0N 91.0W

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

S

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

SW

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

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.6	.0	.0	.0	.0	.9
1-2	.5	1.4	.1	.0	.0	.0	1.9
3-4	.1	.4	.0	.0	.0	.0	.5
5-6	.0	.1	.0	.0	.0	.0	.1
7	.0	.1	.0	.0	.0	.0	.1
8-9	.1	.0	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	2.6	.1	.0	.0	.0	3.6

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.6	1.4	.1	.0	.0	.0	1.9	
1-2	3.5	.6	.0	.0	.0	.0	4.2	
3-4	1.0	.2	.0	.0	.0	.0	1.4	
5-6	.4	.1	.0	.0	.0	.0	.5	
7	.0	.1	.0	.0	.0	.0	.1	
8-9	*	.0	.0	.0	.0	.0	*	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.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	6.2	.4	.0	.0	.0	8.1	90.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-1	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	15.0	9.2	.2	.0	.0	.0	24.4	
1-2	4.6	28.7	4.5	.0	.0	.0	37.8	
3-4	1.0	12.7	9.9	.4	.0	.0	24.1	
5-6	.0	2.9	5.5	.6	.0	.0	9.3	
7	.0	.2	2.1	.3	.0	.0	2.6	
8-9	.1	.3	.6	.2	.1	.0	1.2	
10-11	.0	.0	.1	.1	.0	.0	.2	
12	.0	.0	.1	.1	.0	.0	.1	
13-16	.0	.0	.1	.0	.0	.0	.1	
17-19	.0	.0	.0	.0	.1	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	20.9	54.3	23.1	1.6	.1	.0	100.0	1538

PERIOD: (OVER-ALL) 1949-1979 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	7.4	18.5	17.4	6.5	1.8	.8	.3	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2740	3
6-7	.1	2.4	7.9	6.5	2.4	.9	.4	.1	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	1077	4
8-9	.1	.9	1.8	2.2	1.5	.5	.4	.1	.2	*	*	.0	.0	.0	.0	.0	.0	.0	.0	395	5
10-11	.0	.5	.6	.6	.3	.3	.1	*	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	135	5
12-13	.0	.0	.8	.3	.2	*	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	75	5
>13	.0	.0	.0	.3	.4	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	37	6
INDET	8.9	1.4	2.1	.9	.3	.2	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	715	1
TOTAL	850	1224	1582	895	357	139	71	16	26	9	5	0	0	0	0	0	0	0	0	5174	3
PCT	16.4	23.7	30.6	17.3	6.9	2.7	1.4	.3	.5	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

ANNUAL

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1861-1979

AREA 0009 GUATEMALA SW COAST
11.9N 91.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	1.4	.5	.5	.0	.0	.0	*	2.7	1.7	3.2	.2	.0	2.0	*		90.3
NE	1.8	1.1	.6	.0	.0	.0	*	3.4	1.9	2.7	.2	*	1.1	*		90.8
E	1.8	1.2	.4	.1	.0	.0	.0	3.5	2.3	2.7	.2	.0	1.2	*		90.3
SE	1.7	1.3	.6	.0	.0	.0	.0	3.7	2.2	3.6	.1	.0	1.6	*		89.1
S	2.1	1.6	.7	.0	.0	.0	.0	4.5	3.1	3.2	.4	.0	2.1	*		86.9
SW	3.3	2.1	1.0	.0	.0	.0	.0	6.2	2.9	2.5	.3	.0	1.8	*		86.3
W	2.7	1.6	1.0	.0	.0	.0	*	5.2	2.9	2.7	.1	.0	2.6	*		86.6
NW	1.6	1.1	.5	.0	.0	.0	*	3.2	1.7	3.2	.2	.0	1.7	*		90.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.3	.5	.2	.0	.0	.0	.0	1.0	.9	4.2	.3	.0	4.0	.1		89.5
TOT PCT	1.8	1.2	.6	.0	.0	.0	*	3.6	2.1	3.0	.2	*	1.8	*		89.4
TOT OBS: 92737																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00E03	1.1	.8	.4	.0	.0	.0	*	2.2	1.4	.7	.1	*	1.7	*		93.9
0609	1.4	.9	.4	.0	.0	.0	*	2.7	1.5	8.6	.3	.0	1.8	*		85.3
1215	3.1	1.8	1.1	.0	.0	.0	*	5.9	3.2	3.1	.3	.0	2.0	*		85.6
1821	1.7	1.4	.6	.0	.0	.0	*	3.6	2.3	.4	.2	.0	1.7	*		91.9
TOT PCT	1.8	1.2	.6	.0	.0	.0	*	3.6	2.1	3.1	.2	*	1.8	*		89.3
TOT OBS: 95498																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	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	7.7	1.3	.1	*	.0		11.5	6.6	7.4	8.0	10.8	12.1	15.9	13.7	12.0	11.7
NE	1.9	10.5	4.8	.4	*	.0		17.7	8.9	14.6	14.2	13.2	19.3	20.1	23.0	21.9	19.7
E	2.2	12.5	7.9	.7	*	*		23.3	10.0	24.7	18.7	18.8	14.8	22.0	21.0	28.2	23.0
SE	1.2	5.6	2.1	.1	*	.0		9.0	8.1	12.9	11.6	10.9	8.4	5.8	6.6	7.1	9.0
S	.9	3.0	.8	.1	*	*		4.7	7.1	6.2	5.5	5.0	4.6	3.5	4.2	3.9	5.2
SW	.8	3.3	1.4	.1	*	.0		5.6	7.6	7.2	8.0	5.7	4.2	4.3	6.0	4.7	6.8
W	1.4	5.3	1.8	.1	*	.0		8.6	7.4	10.4	11.4	9.8	8.0	7.5	7.4	6.8	8.1
NW	1.7	6.2	1.1	*	*	.0		9.1	6.9	7.6	9.8	9.7	9.5	10.2	10.8	8.5	9.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.6							10.6	.0	8.9	13.0	16.7	13.1	10.7	7.4	6.8	6.9
TOT OBS							99672		7.6	22547	1636	22218	2190	21709	2657	24844	2371
TOT PCT	23.0	54.1	21.2	1.6	.1	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	6.6	4.4	.2	*	*		11.5	6.6	7.4	10.9	15.7	12.0
NE	6.6	9.2	1.6	.1	*		17.7	8.9	14.6	13.8	20.4	21.7
E	7.4	13.0	2.8	.1	*		23.3	10.0	24.3	18.8	21.9	27.7
SE	3.9	4.6	.5	*	.0		9.0	8.1	12.8	10.2	5.9	7.2
S	2.5	1.9	.2	*	*		4.7	7.1	6.2	5.0	3.6	4.0
SW	2.4	2.7	.5	*	*		5.6	7.6	7.3	5.7	4.5	4.9
W	4.1	4.0	.5	*	.0		8.6	7.4	10.5	9.7	7.5	6.9
NW	5.2	3.7	.2	*	*		9.1	6.9	7.6	9.7	10.3	8.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	10.6						10.6	.0	9.2	16.4	10.3	6.8
TOT OBS						99672		7.6	24193	24408	23866	27215
TOT PCT	46.6	43.5	6.5	.4	*		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1861-1979

APO 0009 GUATEMALA SW COAST
11.9N 91.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00603	9.2	12.0	57.0	20.7	1.0	*	.0	7.6	100.0	24163
06609	16.9	13.6	54.4	14.6	.9	.1	.0	6.4	100.0	24408
12615	10.3	12.8	54.2	20.8	1.8	.1	*	7.7	100.0	23866
18621	6.8	11.4	51.1	26.0	2.5	.1	*	8.8	100.0	27215
TOT								7.6		99672
PCT	10.6	12.9	54.1	21.2	1.6	.1	*		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	5.6	2.2	2.6	1.0		3.7
NE	4.5	3.3	4.1	1.6		3.6
E	9.9	4.7	6.6	2.9		3.6
SE	2.7	1.7	3.1	1.4		3.8
S	1.0	.9	1.8	1.0		4.1
SW	.9	.9	2.1	1.6		4.4
W	2.2	1.6	2.9	1.9		4.1
NW	3.7	1.8	2.3	1.0		3.7
VAR	.0	.0	.0	.0		.0
CALM	5.2	2.1	2.9	.5		3.1
TOT OBS					76515	3.7
TOT PCT	39.7	19.4	27.7	13.2	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000-	WW <5/8 ANY HGT	TOTAL OBS
N	*	*	.1	.4	.6	.3	.1	*	*	*	6.8	
NE	.1	*	.1	.6	.9	.5	.2	.1	.1	.1	14.9	
E	.1	.1	.3	1.2	1.6	.7	.3	.1	.1	.1	19.5	
SE	.1	*	.2	.6	.8	.4	.2	.1	.1	*	6.8	
S	*	*	.1	.4	.5	.2	.1	*	*	*	3.2	
SW	.1	*	.2	.6	.8	.3	.1	*	*	*	3.4	
W	.1	*	.2	.7	1.0	.4	.1	*	*	*	5.9	
NW	*	*	.1	.4	.6	.2	.1	*	*	*	7.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	*	.1	.4	.5	.2	.1	*	*	*	6.2	
TOT OBS												76515
TOT PCT	.5	.3	1.3	5.2	7.3	3.2	1.3	.4	.3	.3	79.9	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >5OYD	= OR >0
= OR >6500	.5	.6	.6	.6	.6	.6	.6	.6
= OR >5000	.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0
= OR >3500	2.0	2.3	2.3	2.3	2.3	2.3	2.3	2.3
= OR >2000	4.8	5.3	5.4	5.4	5.4	5.4	5.4	5.4
= OR >1000	10.9	12.4	12.7	12.7	12.7	12.7	12.7	12.7
= OR >600	14.7	17.3	17.7	17.8	17.9	17.9	17.9	17.9
= OR >300	15.4	18.4	19.0	19.1	19.1	19.1	19.1	19.1
= OR >150	15.6	18.6	19.2	19.3	19.4	19.4	19.4	19.4
= OR > 0	15.8	19.0	19.6	19.8	19.8	19.9	19.9	19.9

TOTAL NUMBER OF OBS: 78527 PCT FREQ WW <5/8: 80.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
23.9	18.6	16.5	12.4	8.4	5.4	5.2	3.9	5.4 .3	82680

PERIOD: (PRIMARY) 1952-1979
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	*	*	*	*	*	*	*	.0	*	.1	
	NO PCP	*	*	*	*	*	*	.0	*	.0	*	*	
	TOT %	*	*	*	*	*	*	*	*	.0	*	.1	
1/2<1	PCP	*	*	*	*	*	*	*	*	.0	*	*	
	NO PCP	*	.0	*	*	*	*	*	*	.0	.0	*	
	TOT %	*	*	*	*	*	*	*	*	.0	*	.1	
1<2	PCP	*	*	*	*	*	*	*	*	.0	*	.2	
	NO PCP	*	*	*	*	*	*	*	*	.0	*	.1	
	TOT %	*	*	.1	*	*	*	*	*	.0	*	.2	
2<5	PCP	*	*	.1	.1	*	.1	.1	*	.0	*	.5	
	NO PCP	*	.1	.1	.1	*	*	*	.1	.0	*	.4	
	TOT %	.1	.1	.2	.1	.1	.1	.1	.1	.0	*	.9	
5<10	PCP	.1	.2	.3	.1	.1	.2	.2	.1	.0	*	1.3	
	NO PCP	.6	.9	1.3	.6	.4	.5	.7	.6	.0	.7	6.3	
	TOT %	.7	1.0	1.6	.8	.5	.7	.9	.7	.0	.8	7.7	
10+	PCP	.1	.2	.3	.2	.1	.2	.3	.1	.0	*	1.5	
	NO PCP	10.7	16.3	21.5	7.9	3.9	4.5	7.2	8.1	.0	9.4	89.5	
	TOT %	10.8	16.5	21.8	8.1	4.1	4.7	7.4	8.2	.0	9.4	91.1	
	TOT OBS												92494
	TOT PCT	11.6	17.7	23.7	9.0	4.7	5.4	8.5	9.0	.0	10.3	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	*	*	
	4-10	*	*	*	*	*	*	*	*	.0		.1	
	11-21	*	*	*	*	*	*	*	*	.0		*	
	22+	*	*	*	.0	.0	*	.0	*	.0		*	
	TOT %	*	*	*	*	*	*	*	*	.0	*	.2	
1/2<1	0-3	*	.0	*	.0	.0	*	.0	*	.0	*	*	
	4-10	*	*	*	*	*	*	*	*	.0		*	
	11-21	.0	*	*	*	*	*	*	*	.0		*	
	22+	.0	*	*	.0	.0	*	*	.0	.0		*	
	TOT %	*	*	*	*	*	*	*	*	.0	*	.1	
1<2	0-3	*	*	*	*	*	*	*	*	.0	*	*	
	4-10	*	*	*	*	*	*	*	*	.0		.1	
	11-21	*	*	*	*	*	*	*	*	.0		.1	
	22+	*	*	*	*	*	*	*	.0	.0		*	
	TOT %	*	*	.1	*	*	*	*	*	.0	*	.3	
2<5	0-3	*	*	*	*	*	*	*	*	.0	.1	.2	
	4-10	*	.1	.1	.1	*	*	.1	.1	.0		.5	
	11-21	*	*	.1	*	*	*	.1	*	.0		.4	
	22+	*	*	*	*	*	*	*	*	.0		.1	
	TOT %	.1	.1	.2	.1	.1	.1	.2	.1	.0	.1	1.1	
5<10	0-3	.1	.1	.2	.1	.1	.1	.1	.1	.0	.8	1.7	
	4-10	.4	.5	.7	.4	.3	.3	.5	.4	.0		3.5	
	11-21	.1	.3	.6	.2	.1	.3	.3	.1	.0		2.1	
	22+	*	*	.1	*	*	.1	*	*	.0		.3	
	TOT %	.7	1.0	1.5	.8	.5	.7	.9	.7	.0	.8	7.5	
10+	0-3	2.2	1.8	2.0	1.1	.8	.7	1.2	1.5	.0	9.7	20.9	
	4-10	7.3	9.8	11.7	5.1	2.7	2.9	4.7	5.7	.0		49.8	
	11-21	1.2	4.5	7.3	1.8	.6	1.0	1.8	.9	.0		18.8	
	22+	.1	.4	.6	.1	*	.1	.1	*	.0		1.3	
	TOT %	10.8	16.5	21.6	8.1	4.0	4.7	7.4	8.2	.0	9.7	90.8	
	TOT OBS												96735
	TOT PCT	11.5	17.7	23.5	9.0	4.7	5.6	8.6	9.0	.0	10.5	100.0	

ANNUAL

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1861-1979

AREA 0009 GUATEMALA SW COAST
11.9N 91.0W

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	AM <5/8 ANY HGT	TOTAL OBS
00E03	.3	.2	.8	3.8	5.7	2.7	1.2	.4	.3	.3	15.6	34.4	21335
06E09	.6	.1	.9	4.2	6.0	2.6	1.0	.3	.3	.3	16.2	83.8	19196
12E15	.7	.3	1.4	6.8	8.7	3.3	1.3	.4	.2	.9	24.2	75.9	19900
18E21	.4	.3	1.2	5.3	7.6	3.5	1.4	.5	.3	.3	21.0	79.0	21408
TOT													81839
PCT	.5	.2	1.2	5.3	7.0	3.0	1.2	.4	.3	.3	19.2	80.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.1	.1	.2	.9	5.5	93.3	24586
06E09	.2	.1	.2	1.0	8.2	90.3	24464
12E15	.2	.1	.4	1.7	9.6	87.8	24023
18E21	.2	.1	.3	1.0	6.9	91.6	26654
TOT							99527
PCT	.2	.1	.3	1.1	7.6	90.8	100.0

TABLE 12

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

HOUR (GMT)	<150 <5DYD	<600 <1	<1000 <5	1000+ AND5+	AM <5/8 AND 5+	TOTAL OBS
00E03	.3	1.4	5.7	10.7	83.6	20481
06E09	.6	1.8	6.8	12.6	82.6	18349
12E15	.7	3.0	10.6	14.5	74.7	19101
18E21	.5	2.1	6.0	13.8	78.2	20596
TOT						78527
PCT	.5	2.1	7.8	12.4	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
95/99	.0	.0	*	*	*	*	.0	.0		*
90/94	.0	*	*	.2	.7	.3	.1	*		.2
85/89	.0	.0	*	.3	3.3	8.0	1.9	.4		14.0
80/84	.0	.0	*	.5	5.8	27.7	27.5	4.7		66.1
75/79	.0	.0	*	*	.4	3.4	6.3	5.5		15.7
70/74	.0	.0	.0	.0	*	*	.2	.4		.6
65/69	.0	.0	.0	.0	.0	*	*	*		*
TOTAL									77616	100.0
PCT	.0	*	.1	1.0	10.3	39.4	38.0	11.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	*	*	*	*	*	*	*	*	.0	*
	.2	.2	.3	.1	*	*	.1	.2	.0	.1
	1.6	2.1	3.7	1.4	.6	.5	1.1	1.3	.0	1.6
	7.6	11.3	16.0	6.2	3.0	3.4	5.5	5.9	.0	7.3
	2.2	3.4	5..	1.1	.9	1.4	1.8	1.4	.0	1.6
	.1	.2		*	*	*	*	*	.0	.1
	*	*	-	.0	.0	*	*	*	.0	.0
	11.5	17.4	25..	8.9	4.6	5.5	8.6	8.8	.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
00E03	96	89	87	82	78	76	68	82.3	24670
06E09	92	85	84	81	77	75	68	80.9	25231
12E15	95	85	84	81	76	74	68	80.5	24329
18E21	97	91	89	83	78	76	68	83.5	27484
TOT	97	90	87	82	77	75	68	81.8	101714

TABLE 16

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	1.0	13.3	45.4	32.4	7.8	78	20301
06E09	.0	.3	4.4	34.9	46.2	13.7	81	19712
12E15	.0	.4	4.1	30.9	47.5	17.0	82	19470
18E21	.0	2.4	17.9	46.0	26.8	6.9	76	20496
TOT	0	806	7965	31444	30686	9078	79	79979

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1961-1979

AREA 0009 GUATEMALA SW COAST
11.4N 91.0W

TABLE 17

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

AIR-SEA TMP DIF	65 - 69	69 - 72	77 - 76	77 - 80	81 - 84	85 - 88	89 - 92	>92	TOT OBS	% FOG	#0 FOG
17/19	.0	.0	.0	.0	*	*	*	*	11	.0	*
14/16	.0	.0	.0	.0	*	*	*	*	73	.0	.1
11/13	.0	.0	.0	*	.1	.1	.1	.1	235	.0	.3
9/10	.0	.0	*	*	.1	.2	.2	*	459	.0	.5
7/8	.0	.0	*	.1	.3	.4	.4	*	1084	*	1.3
5	.0	.0	*	.1	.3	.4	.2	*	890	.0	1.0
4	.0	.0	*	.2	.6	.8	.3	*	1692	*	2.0
4	*	*	*	.3	1.3	1.3	.3	*	2745	*	3.2
3	.0	*	.1	.5	1.4	1.4	.2	*	2950	*	3.4
2	.0	*	.1	1.0	3.9	2.1	.1	*	6144	*	7.1
1	*	*	.1	1.3	4.5	1.8	.1	.0	6775	*	7.8
0	.0	*	.2	3.1	9.7	1.9	*	.0	12927	*	14.9
-1	.0	*	.2	3.1	8.5	1.3	*	.0	11356	*	13.0
-2	.0	*	.2	4.7	9.2	.7	*	.0	12858	*	14.7
-3	.0	*	.2	3.8	5.6	.3	*	.0	8646	*	9.9
-4	*	*	.3	4.0	4.2	.1	*	.0	7546	*	8.6
-5	.0	*	.2	2.7	2.3	.1	*	.0	4693	*	5.3
-6	.0	*	.3	1.8	.8	*	*	.0	2587	*	2.9
-7/-8	.0	*	.5	1.5	.5	*	.0	.0	2252	*	2.5
-9/-10	*	*	.3	.6	.1	*	.0	.0	703	*	.8
-11/-13	*	*	.1	.1	*	.0	.0	.0	245	*	.3
-14/-16	*	*	*	*	*	.0	.0	.0	26	*	*
-17/-19	.0	*	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL									87990		
PCT	*	.1	2.9	28.7	53.2	13.0	1.9	.2	100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	1.9	*	.0	.0	.0	2.9
1-2	.6	4.1	.4	*	.0	.0	5.1
3-4	.1	1.4	.5	*	.0	.0	2.0
5-6	*	.2	.2	*	*	.0	.4
7	.0	*	.1	*	*	.0	.1
8-9	.0	*	*	*	*	.0	*
10-11	.0	.0	*	*	*	.0	*
12	.0	.0	*	*	*	.0	*
13-16	.0	.0	*	*	*	.0	*
17-19	.0	.0	.0	*	*	.0	*
20-22	.0	.0	.0	.0	*	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	7.6	1.3	.1	*	.0	10.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	2.0	*	.0	.0	.0	2.9
1-2	.5	5.8	1.3	.0	.0	.0	7.6
3-4	.1	2.6	2.4	.1	.0	.0	5.2
5-6	*	.5	1.5	.1	.0	.0	2.2
7	.0	.1	.5	.2	*	.0	.8
8-9	.0	*	.2	.1	*	.0	.4
10-11	.0	.0	*	*	*	.0	.1
12	.0	.0	*	*	*	.0	.1
13-16	.0	.0	.0	*	*	.0	.1
17-19	.0	.0	.0	.0	*	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	11.0	6.0	.4	*	.0	19.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	2.0	.1	.0	.0	.0	2.8
1-2	.5	6.6	1.6	.0	.0	.0	8.7
3-4	.2	3.5	3.8	.1	.0	.0	7.6
5-6	*	.9	2.5	.2	.0	.0	3.6
7	.0	.1	.6	.2	*	.0	1.1
8-9	.0	*	.2	.1	*	.0	.4
10-11	.0	.0	*	*	*	.0	*
12	.0	.0	*	*	*	.0	*
13-16	.0	.0	*	*	*	.0	*
17-19	.0	.0	.0	*	*	.0	*
20-22	.0	.0	.0	.0	*	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	12.9	9.3	.9	.1	.0	24.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	2.9	*	.0	.0	.0	3.3
1-2	.4	2.9	.4	.0	.0	.0	3.7
3-4	.1	1.3	1.1	*	.0	.0	2.5
5-6	*	.3	.6	*	.0	.0	1.0
7	.0	.1	.2	*	.0	.0	.2
8-9	.0	*	.1	*	.0	.0	.1
10-11	.0	.0	*	*	.0	.0	*
12	.0	.0	*	*	.0	.0	*
13-16	.0	.0	*	*	.0	.0	*
17-19	.0	.0	.0	*	.0	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	5.3	2.4	.1	*	.0	8.8

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PERIOD: (OVER-ALL) 1963-1970

AREA CODE GUATEMALA SW COAST
11.6N 91.0W

TABLE 16 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.7	•	.0	.0	.0	1.0
1-2	.2	1.5	.2	.0	.0	.0	1.9
3-4	•	.7	.3	•	.0	.0	1.1
5-6	•	.1	.2	•	.0	.0	.4
7	.0	•	.1	•	.0	.0	.1
8-9	.0	•	•	•	.0	.0	•
10-11	.0	.0	•	.0	.0	.0	•
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	3.0	.6	•	•	.0	4.5

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.7	•	.0	.0	.0	.9
1-2	.2	1.8	.3	.0	.0	.0	2.3
3-4	•	.8	.6	•	.0	.0	1.4
5-6	•	.2	.4	•	.0	.0	.7
7	.0	•	.2	•	.0	.0	.3
8-9	.0	•	•	•	.0	.0	.1
10-11	.0	.0	•	.0	.0	.0	•
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	5.4	2.1	.2	.0	.0	8.8

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.2	•	.0	.0	.0	1.8
1-2	.6	2.7	.5	.0	.0	.0	3.7
3-4	.2	1.2	.8	•	.0	.0	2.1
5-6	•	.3	.5	•	.0	.0	.8
7	.0	•	.2	•	.0	.0	.3
8-9	.0	•	•	•	.0	.0	.1
10-11	.0	.0	•	.0	.0	.0	•
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	5.4	1.2	.1	.0	.0	8.4

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	1.6	•	.0	.0	.0	2.2	
1-2	.1	3.1	.3	.0	.0	.0	3.9	
3-4	•	1.0	.5	•	.0	.0	1.6	
5-6	•	.2	.2	•	.0	.0	.4	
7	.0	•	•	•	.0	.0	.1	
8-9	.0	•	•	•	.0	.0	•	
10-11	.0	.0	•	.0	.0	.0	•	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.2	5.4	1.2	.1	.0	.0	8.3	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	14.8	10.8	.3	•	.0	.0	25.9	
1-2	4.0	27.6	5.2	•	.0	.0	36.8	
3-4	.8	12.1	9.8	•	.0	.0	23.1	
5-6	.2	2.7	5.9	.5	•	.0	9.3	
7	.0	.4	2.2	.6	•	.0	3.2	
8-9	.0	.1	.6	.2	•	.0	1.0	
10-11	.0	.0	.2	.2	•	.0	.4	
12	.0	.0	•	•	•	.0	.1	
13-16	.0	.0	.1	•	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	20631
TOT PCT	19.9	53.7	24.3	2.0	.1	.0	100.0	

TABLE 19

PERIOD: (OVER-ALL) 1949-1974

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	6.1	16.8	16.2	6.6	2.2	.7	.3	.1	.1	•	•	.0	.0	.0	.0	.0	.0	.0	.0	34213	3
6-7	.2	2.4	7.6	5.9	3.0	1.1	.5	.1	.1	•	•	.0	.0	.0	.0	.0	.0	.0	.0	15436	5
8-9	.1	.9	2.5	2.6	1.6	.7	.4	.1	.1	•	•	.0	.0	.0	.0	.0	.0	.0	.0	6389	5
10-11	.0	.0	.9	.6	.6	.3	.2	.1	•	•	•	.0	.0	.0	.0	.0	.0	.0	.0	2517	5
12-13	.0	.0	.2	.2	.3	.1	.1	•	•	•	•	.0	.0	.0	.0	.0	.0	.0	.0	1187	5
>13	.0	•	.0	.0	.1	.1	•	•	•	•	•	.0	.0	.0	.0	.0	.0	.0	.0	585	7
INDET	.0	.0	.0	.0	.0	.0	.0	•	•	•	•	.0	.0	.0	.0	.0	.0	.0	.0	9570	2
TOTAL PCT	6.3	1.6	2.0	1.2	.5	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	69897	3
	14.4	22.3	29.8	19.4	8.9	3.2	1.4	.5	.4	.1	.1	•	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1861-1979

TABLE 20

AREA 0009 GUATEMALA SW COAST
11.9N 91.0W

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

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	*	.0	*	.0	.0	.1	*	.0	.0	.0	8	*
93/94	*	*	*	.1	.1	.1	.1	.1	.1	*	.1	.0	53	.1
91/92	*	*	*	.3	.7	.1	.2	.4	.2	.1	.1	*	170	.2
89/90	.1	.2	.4	2.2	3.9	1.6	1.1	1.6	.9	.9	.6	.4	1160	1.2
87/88	.8	.9	2.9	10.0	17.1	7.2	5.3	6.6	5.6	4.1	3.5	1.8	5392	5.7
85/86	4.4	4.3	13.7	29.2	32.4	27.2	20.1	22.0	22.1	17.6	15.3	9.0	17457	18.6
83/84	17.4	19.2	28.1	26.6	27.5	34.0	35.7	33.7	34.5	32.0	28.8	24.2	27073	28.8
81/82	34.6	35.9	30.2	19.2	13.9	22.9	28.6	26.1	26.1	29.9	32.9	33.2	25779	27.4
79/80	22.3	22.2	13.3	6.3	3.1	5.1	7.0	6.6	7.5	10.9	12.5	17.8	10200	10.9
77/78	11.0	9.7	5.6	3.1	.9	1.2	1.5	1.8	2.4	3.2	4.6	7.6	3933	4.2
75/76	5.0	4.7	3.1	1.2	.2	.4	.4	.5	.6	.9	1.7	3.7	1636	1.7
73/74	2.4	2.4	1.3	.4	.1	.2	.1	.2	.3	.3	.3	1.4	705	.8
71/72	.9	1.1	.5	.1	.1	*	*	.1	.0	.1	.2	.4	257	.3
69/70	.3	.3	.3	*	.0	.0	*	.0	.0	.0	*	.2	93	.1
67/68	.1	.2	*	.0	.0	.0	.0	.0	.0	.0	*	.1	33	*
65/66	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	6	*
63/64	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	2	*
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	7160	7157	9068	7966	9965	8371	8336	7951	7801	7733	7533	6968	93947	100.0
MEAN	82.6	83.7	82.0	83.7	84.7	83.7	83.3	83.4	83.2	82.5	82.4	81.4	82.6	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0630	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1011	1012	1012	1011	1012	1012	1013	1010	1012	7267
FEB	1010	1011	1012	1011	1012	1013	1013	1011	1012	7314
MAR	1010	1011	1012	1010	1011	1012	1012	1010	1011	9254
APR	1010	1011	1011	1010	1011	1012	1012	1010	1011	8197
MAY	1009	1010	1011	1009	1011	1011	1011	1009	1011	9139
JUN	1010	1011	1011	1010	1011	1011	1012	1010	1011	8651
JUL	1010	1011	1012	1010	1011	1011	1012	1010	1011	8600
AUG	1010	1011	1012	1010	1011	1011	1012	1010	1011	8287
SEP	1010	1011	1011	1010	1010	1011	1011	1010	1011	8051
OCT	1010	1011	1011	1009	1011	1011	1011	1009	1011	8017
NOV	1010	1011	1012	1010	1011	1012	1012	1010	1011	7575
DEC	1011	1012	1012	1010	1012	1012	1012	1010	1012	7143
ANN	1010	1011	1012	1010	1011	1012	1012	1010	1011	96495
OBS	22677	1525	21974	1422	21409	2036	23968	1784		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	996	1006	1008	1011	1012	1013	1015	1016	1023
FEB	999	1005	1008	1010	1012	1013	1015	1017	1023
MAR	997	1005	1008	1010	1011	1013	1015	1016	1022
APR	1000	1006	1008	1010	1011	1012	1014	1015	1021
MAY	996	1004	1007	1009	1011	1012	1014	1015	1021
JUN	1001	1004	1008	1010	1011	1012	1014	1015	1022
JUL	998	1006	1008	1010	1011	1012	1014	1016	1022
AUG	996	1005	1008	1010	1011	1012	1014	1016	1022
SEP	1001	1005	1008	1009	1011	1012	1014	1015	1020
OCT	999	1005	1008	1010	1011	1012	1014	1015	1020
NOV	996	1006	1008	1010	1011	1013	1014	1016	1020
DEC	1000	1006	1008	1010	1012	1013	1015	1017	1023

JANUARY

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1871-1979

AREA CODE NICARAGUA SW COAST
9.6N 86.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	.2	.1	.2	.0	.0	.0	.0	.5	.1	.9	.3	.0	1.0	.0	97.3
NE	.1	.1	.1	.0	.0	*	.0	.3	.1	.3	.1	.1	1.4	.2	97.5
E	.2	.1	.1	.0	.0	.0	.1	.5	.1	.0	.1	.0	1.4	.0	97.9
SE	.0	.5	.3	.0	.0	.0	.0	.8	.5	1.1	.0	.0	1.6	.0	95.9
S	1.0	1.5	1.6	.0	.0	.0	.0	4.2	.5	.5	.0	.0	1.1	.0	94.2
SW	.7	1.5	.2	.0	.0	.0	.0	2.4	1.6	1.2	.0	.0	.2	.0	94.6
W	.2	.8	.1	.0	.0	.0	.0	1.0	.7	.8	.0	.0	.4	.2	96.6
NW	.0	.2	.2	.0	.0	.0	.0	.4	1.0	.4	.2	.0	.3	.0	97.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.2	.2	.0	.0	.0	.0	.0	.4	.7	1.2	.4	.0	2.5	.0	94.9
TOT PCT	.2	.3	.2	.0	.0	.0	*	.7	.4	.6	.1	*	1.2	.1	96.9
TOT OBS:	6101														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00E03	.3	.3	.1	.0	.0	.0	.0	.6	.1	.3	.0	.0	1.0	.2	97.2
04E09	.1	.5	.1	.0	.0	.0	.1	.6	.5	1.5	.2	.0	.5	.0	96.5
10E15	.3	.3	.2	.0	.0	.0	.0	.7	.4	.6	.2	.1	1.5	.1	96.4
16E21	.1	.1	.2	.0	.0	.0	.0	.4	.5	.0	.1	.0	1.3	.1	97.5
TOT PCT	.2	.3	.2	.0	.0	.0	*	.7	.4	.6	.1	*	1.2	.1	96.9
TOT OBS:	6251														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)					
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	PEAK SPD	00	02	04	09	12	15	18	21
N	2.2	8.5	5.5	.5	.1	.0		16.8	9.7	15.2	13.5	13.9	17.9	19.7	18.7	18.0	19.0
NE	1.7	11.6	14.2	3.3	.3	.1		31.1	13.2	26.3	27.0	25.5	32.6	34.2	33.5	37.6	32.2
E	.9	6.9	5.6	1.3	*	*		12.7	12.8	11.5	11.0	10.9	11.8	13.4	9.1	12.4	9.0
SE	.7	1.6	.9	*	.0	*		3.2	7.2	3.9	3.9	3.6	3.4	2.1	3.4	2.4	2.2
S	.7	2.0	.3	*	.0	.0		3.1	6.2	5.5	5.8	5.2	2.7	1.7	2.8	2.4	3.8
SW	1.1	2.8	.5	*	.0	.0		4.4	8.2	7.1	4.6	4.6	5.1	3.7	4.3	2.5	5.3
W	2.3	7.7	.7	.0	*	.0		10.2	8.2	13.2	8.1	12.7	6.9	7.7	9.6	7.9	12.4
NW	1.8	6.4	1.0	*	.0	.0		9.1	6.5	8.0	12.9	8.6	12.8	9.5	13.7	9.7	11.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.6							9.6	.0	9.4	11.2	13.1	12.2	9.9	5.2	8.1	9.9
TOT OBS	1454	3129	1962	362	31	6	6944		9.3	1440	179	1571	144	1634	258	1724	184
TOT PCT	20.9	45.1	28.3	5.2	.4	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)									HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	6.6	7.9	2.0	.2	*		16.8	9.7	15.0	14.1	19.6	18.1
NE	6.3	15.5	8.1	1.1	.1		31.1	13.2	26.3	25.9	34.1	37.2
E	3.1	5.9	3.3	.4	*		12.7	12.8	11.4	14.6	12.8	12.1
SE	1.8	1.0	.2	*	*		3.0	7.2	3.9	3.4	2.3	2.4
S	2.2	.8	.1	*	.0		3.1	6.2	5.5	3.1	1.5	2.5
SW	2.9	1.4	.1	*	.0		4.4	6.2	7.0	4.7	3.4	2.7
W	6.5	3.6	.1	.0	*		10.2	6.2	12.6	12.2	8.0	8.3
NW	5.7	3.3	.1	*	.0		9.1	6.5	8.5	8.9	10.1	9.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	9.6						9.6	.0	9.6	13.0	8.4	7.7
TOT OBS	7154	2737	970	121	12	6944		9.3	1614	1719	1684	1923
TOT PCT	44.7	39.4	14.0	1.7	.2		100.0		100.0	100.0	100.0	100.0

JANUARY

PERIOD: (HRS-ARY) 1952-1974
(OBS-ALL) 1971-1974

AREA 0010 NICARAGUA SW COAST
9.6N 86.6W

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	13.3	31.2	32.3	3.0	.5	.1	8.1	100.0	1618
04&09	13.0	12.2	44.0	25.4	4.0	.5	.0	8.7	100.0	1719
10&15	6.4	9.0	46.0	29.4	6.1	.5	.1	9.8	100.0	1664
16&21	7.7	10.9	40.0	34.4	6.5	.3	.2	10.3	100.0	1923
TOT	666	785	3124	1962	362	31	6	9.2		6964
PCT	9.6	11.3	45.1	28.3	5.2	.4	.1		100.0	

TABLE 5

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

WND DIR	0-2	3-6	7-8	9 & OBSCD	TOTAL OBS	PEAK CLOUD COVER
N	11.6	2.9	2.1	.4		2.6
NE	23.3	4.5	2.9	.4		3.6
E	9.8	1.7	1.2	.1		1.6
SE	1.6	.4	.6	.1		2.6
S	1.4	.5	.7	.2		3.2
SW	2.1	1.1	1.0	.3		3.1
W	5.1	2.6	1.9	.4		2.7
NW	5.1	1.7	1.5	.2		2.4
VAR	.0	.0	.0	.0		.0
CALM	6.0	1.9	1.5	.4		2.2
TOT OBS	3359	936	644	156	5095	2.9
TOT PCT	66.1	17.4	13.5	3.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NM 34/A) 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	*	.2	.4	.2	.1	.1	.1	.1	16.0	
NE	*	.0	.1	.2	.4	.2	.1	.1	.1	.1	30.0	
E	*	.0	.0	.2	.2	.1	.1	*	*	*	32.2	
SE	.0	.0	*	.2	*	*	*	*	.0	.0	2.6	
S	*	*	*	.2	.1	.1	*	.0	.0	*	2.4	
SW	*	.0	*	.2	.3	.2	*	.0	.0	.0	3.7	
W	*	*	*	.2	.5	.2	.2	*	*	*	9.0	
NW	.0	.0	.1	.2	.2	.1	.1	.1	.1	.0	7.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	*	*	.2	.5	.2	.1	*	.1	.1	8.7	
TOT OBS	6	4	16	84	176	65	34	17	17	14	4690	5085
TOT PCT	.2	.1	.3	1.7	3.7	1.2	.7	.3	.3	.3	92.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (HM 34/A) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) ≥ 0R 330	≥ 0R ≥5	≥ 0R ≥2	≥ 0R ≥1	≥ 0R ≥1/2	≥ 0R ≥1/4	≥ 0R ≥5016	≥ 0R ≥0
≥ 0R 36500	.6	.7	.7	.7	.7	.7	.7	.7
≥ 0R 35000	.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 0R 32500	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6
≥ 0R 30000	2.6	2.6	2.8	2.8	2.8	2.8	2.8	2.8
≥ 0R 21000	5.1	5.5	5.6	5.6	5.6	5.6	5.6	5.6
≥ 0R 3400	6.6	7.2	7.2	7.2	7.2	7.2	7.2	7.2
≥ 0R 3300	6.8	7.4	7.5	7.5	7.5	7.5	7.5	7.5
≥ 0R 3150	6.9	7.5	7.6	7.6	7.6	7.6	7.6	7.6
≥ 0R > 0	7.0	7.7	7.8	7.8	7.8	7.8	7.8	7.8
TOTAL	353	398	403	404	405	405	405	405

TOTAL NUMBER OF OBS: 5199

PCT FREQ NM <5/8: 92.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	-1	TOTAL OBS
41.2	24.1	13.0	4.8	4.8	2.4	2.2	1.7	1.6	.1	5457

JANUARY

PERIOD: (PRIMARY) 1952-1979
(OVERALL) 1971-1979

AREA 0010 NICARAGUA SW COAST
9.6N 86.8W

TABLE A

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	*	*	.0	.0	.0	.0	.0	.0	.0	*	
	NO PCP	.0	*	.0	.0	.0	.0	.0	*	.0	*	.1	
	TOT %	.0	*	*	.0	.0	.0	.0	*	.0	*	.1	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	*	*	.0	.0	.0	*	
	NO PCP	.0	*	.0	.0	.0	*	*	.0	.0	*	*	
	TOT %	.0	*	.0	.0	.0	*	*	.0	.0	*	.1	
2<5	PCP	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
	NO PCP	*	.1	.0	*	.0	*	*	.1	.0	.0	.2	
	TOT %	*	.1	.0	*	.0	*	*	.1	.0	.0	.3	
5<10	PCP	*	*	*	.0	.1	.1	.1	.0	.0	.0	.3	
	NO PCP	.6	.9	.3	.1	.2	.2	.4	.2	.0	.5	3.5	
	TOT %	.6	.9	.3	.1	.2	.3	.5	.3	.0	.5	3.8	
10+	PCP	*	*	*	*	.1	*	*	*	.0	*	.3	
	NO PCP	15.9	30.0	12.6	2.8	2.9	4.2	9.6	8.7	.0	8.8	95.5	
	TOT %	15.9	30.0	12.6	2.9	3.0	4.3	9.6	8.7	.0	8.8	95.8	
	TOT OBS												6083
	TOT PCT	16.6	31.0	13.0	3.0	3.2	4.6	10.2	9.1	.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	*	*	
	4-10	*	.0	.0	.0	.0	.0	.0	*	.0		*	
	11-21	*	*	.0	.0	.0	.0	.0	.0	.0		*	
	22+	*	*	*	.0	.0	.0	.0	.0	.0		*	
	TOT %	*	*	*	.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	*	*	
	4-10	*	.0	.0	.0	.0	*	*	*	.0		*	
	11-21	.0	*	.0	.0	.0	.0	*	*	.0		*	
	22+	.0	.0	.0	.0	.0	*	.0	.0	.0		.0	
	TOT %	*	*	.0	.0	.0	*	*	*	.0	*	.1	
2<5	0-3	.0	*	*	*	.0	*	*	.0	.0	.0	.1	
	4-10	*	*	*	*	*	*	*	*	.0		.2	
	11-21	*	*	*	*	*	*	*	*	.0		*	
	22+	.0	*	.0	.0	.0	.0	*	.0	.0		*	
	TOT %	*	.1	*	*	.0	*	*	.1	.0	.0	.3	
5<10	0-3	.1	*	.1	*	*	.1	.1	*	.0	.5	.9	
	4-10	.4	.4	.1	.1	.2	.1	.4	.2	.0		1.8	
	11-21	.2	.4	.1	*	*	.1	*	.1	.0		.9	
	22+	*	.1	*	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.6	.9	.3	.1	.2	.3	.5	.3	.0	.5	3.7	
10+	0-3	2.0	1.4	.7	.6	.7	1.0	1.9	1.7	.0	8.8	18.8	
	4-10	8.1	11.2	4.8	1.7	1.9	2.7	7.1	6.0	.0		43.3	
	11-21	5.3	14.0	5.7	.5	.3	.4	.8	.9	.0		27.9	
	22+	.6	3.6	1.4	.1	.1	*	*	.1	.0		5.8	
	TOT %	15.9	30.1	12.7	2.8	2.9	4.1	9.6	8.7	.0	8.8	95.7	
	TOT OBS												6421
	TOT PCT	16.6	31.2	13.1	2.9	3.1	4.4	10.2	9.1	.0	9.4	100.0	

JANUARY

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1971-1979

AREA 0010 NICARAGUA SW COAST
9.6N 86.8W

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	.1	.0	.4	.7	2.2	1.6	1.0	.3	.4	.3	7.0	93.0	1349
06E09	.3	.0	.2	1.7	2.6	1.0	.8	.3	.3	.5	7.6	92.4	1332
12E15	.1	.1	.6	2.7	3.5	1.5	.5	.2	.2	.1	9.7	90.3	1353
18E21	.2	.1	.1	1.5	2.1	.6	.3	.4	.4	.3	6.1	93.9	1391
TOT	10	4	17	89	142	63	35	17	16	16	411	5014	5425
PCT	.2	.1	.3	1.6	2.6	1.2	.6	.3	.3	.3	7.6	92.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.1	.1	.2	.5	3.9	95.3	1571
06E09	.1	.0	.1	.2	4.6	95.0	1615
12E15	.2	.0	.1	.4	4.0	95.3	1637
18E21	.1	.0	.1	.2	2.8	96.9	1751
TOT	9	1	6	22	249	6287	6574
PCT	.1	*	.1	.3	3.8	95.6	100.0

TABLE 12

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

HOUR (GMT)	<150 <5QYD	<600 <1	<1000 <2	1000+ AND5+	NM <5/8 AND 5+	TOTAL OBS
00E03	.2	.6	1.5	5.9	92.6	1272
06E09	.3	.5	2.3	5.7	92.0	1289
12E15	.1	1.0	3.9	6.3	89.9	1303
18E21	.1	.5	2.1	4.3	93.6	1335
TOT	10	35	128	287	4784	5199
PCT	.2	.7	2.5	5.5	92.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.1	.0	.0	*	.0	5	.1
90/94	.0	.0	.1	.1	.4	.1	*	*	40	.7
85/89	.0	.0	.1	.9	2.8	2.0	.6	.1	360	6.7
80/84	.0	.0	.1	1.0	8.6	25.5	14.1	3.2	2831	52.3
75/79	.0	.0	.0	.1	1.3	9.7	17.8	7.3	1962	36.2
70/74	.0	.0	.0	.0	.0	.3	1.6	2.1	210	3.9
65/69	.0	.0	.0	.0	.0	.0	.1	*	5	.1
TOTAL	0	0	13	120	711	2032	1846	691	5413	100.0
PCT	.0	.0	.2	2.2	13.1	37.5	34.1	12.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

%	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.1	*	*	*	.0	.0	.0	.0	.0
.1	.2	*	*	.1	.0	.1	.2	.0	.1
1.0	1.9	.8	.2	.3	.2	.5	.9	.0	.8
8.7	13.6	6.8	1.8	1.8	2.8	6.5	4.9	.0	5.3
6.3	13.6	4.7	.8	.9	1.3	3.1	2.5	.0	3.0
.7	1.9	.6	*	.1	.1	.1	.1	.0	.3
*	.1	*	.0	.0	.0	.0	*	.0	.0
16.8	31.3	13.0	2.9	3.1	4.4	10.2	8.6	.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	94	88	85	81	75	73	65	80.5	1659
06E09	87	84	82	79	75	72	68	79.1	1756
12E15	89	85	82	79	74	71	66	78.7	1710
18E21	95	91	88	82	76	73	68	81.8	1945
TOT	95	89	86	80	75	72	65	80.1	7070

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	2.5	12.9	40.5	32.7	11.3	79	1368
06E09	.0	.5	7.0	33.9	41.7	16.9	81	1375
12E15	.0	1.1	9.5	33.6	38.2	17.5	81	1397
18E21	.0	5.6	22.6	41.3	24.6	6.0	75	1417
TOT	0	136	726	2074	1903	718	79	5557

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1871-1979

AREA 0010 NICARAGUA SW COAST
11.6N 86.6W

TABLE 17

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

AIR-SEA DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	% FOG	#O FOG
17/19	.0	.0	.0	.0	.0	.0	*	*	2	.0	*
14/16	.0	.0	.0	*	*	.1	*	*	9	.0	.2
11/13	.0	.0	.0	.1	.2	.2	.1	.1	36	.0	.7
9/10	.0	.0	.0	.3	.5	.2	.1	*	66	.0	1.2
7/8	.0	.0	.1	.5	.4	.6	.3	.0	105	.0	1.9
6	.0	*	.2	.6	.6	.3	.1	.0	104	.0	1.8
5	.0	*	.4	1.1	1.0	.6	.1	.0	182	*	3.2
4	.0	.1	.6	1.4	1.7	.7	.1	.0	259	.0	4.6
3	.0	.1	.9	1.8	1.5	.6	*	.0	268	*	4.7
2	.0	.1	1.1	2.4	3.6	1.1	.0	.0	472	*	8.3
1	.0	.1	1.3	3.0	4.1	.7	.0	.0	519	.0	9.2
0	*	.2	1.2	6.0	4.4	.5	.0	.0	816	*	14.4
-1	.0	*	.4	5.1	5.6	.1	.0	.0	659	*	11.6
-2	*	*	.3	7.6	4.7	.1	.0	.0	746	.0	13.2
-3	.0	.1	.7	5.0	2.2	*	.0	.0	453	.0	8.0
-4	.0	*	1.0	4.8	1.8	*	.0	.0	429	*	7.6
-5	.0	.1	.4	2.7	.8	.0	.0	.0	237	.0	4.2
-6	.0	*	.4	1.4	.3	.0	.0	.0	140	.0	2.5
-7/-8	*	.1	.6	.9	.2	.0	.0	.0	102	.0	1.8
-9/-10	*	.1	.4	.3	*	.0	.0	.0	40	.0	.7
-11/-13	.0	*	.1	.1	.0	.0	.0	.0	16	.0	.2
-14/-16	.0	.0	*	.0	.0	.0	.0	.0	1	.0	*
TOTAL	5		65		2027		54		7	5656	
		55		2528		332		7	5663		
PCT	.1	1.0	11.6	44.6	35.8	5.9	1.0	.1	100.0	.1	99.9

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	2.7	.0	.0	.0	.0	4.0
1-2	.7	5.6	1.3	.0	.3	.0	7.5
3-4	.1	2.1	1.8	.1	.0	.0	4.1
5-6	.0	.3	1.5	.1	.0	.0	1.9
7	.0	.1	.4	.1	.0	.0	.6
8-9	.0	.1	.1	.1	.0	.0	.2
10-11	.0	.0	.1	.1	.0	.0	.1
12	.0	.0	.1	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.1	10.8	5.3	.6	.0	.0	18.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.5	.0	.0	.0	.0	2.0
1-2	.3	6.7	2.1	.0	.0	.0	9.0
3-4	.0	2.8	5.3	.5	.0	.0	8.6
5-6	.0	.6	4.7	.9	.0	.0	6.2
7	.0	.0	2.0	.8	.1	.0	2.9
8-9	.0	.0	.2	.8	.1	.0	1.1
10-11	.0	.0	.1	.5	.1	.0	.6
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	11.6	14.4	3.5	.3	.0	30.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.3	.0	.0	.0	.0	.7
1-2	.1	2.0	.7	.0	.0	.0	2.9
3-4	.0	.5	1.8	.2	.1	.0	3.0
5-6	.0	.1	1.5	.2	.0	.0	1.9
7	.0	.0	.5	.2	.0	.0	.8
8-9	.0	.0	.1	.2	.0	.0	.2
10-11	.0	.0	.1	.2	.0	.0	.4
12	*	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.1	.0	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	3.4	4.8	1.3	.0	.0	9.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.5	.1	.0	.0	.0	.7
1-2	.2	1.1	.1	.0	.0	.0	1.3
3-4	.0	.2	.2	.0	.0	.0	.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	.3	1.8	.5	.0	.0	.0	2.5

PERIOD: (OVER-ALL) 1963-1979 JANUARY AREA 0010 NICARAGUA SW COAST

TABLE 18 (CONT.) 9.6N 86.8W

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.6	.0	.0	.0	.0	1.0
1-2	.1	.6	.1	.0	.0	.0	.9
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	.7	1.6	.1	.1	.0	.0	2.3

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.0	.0	.0	.0	.0	1.7
1-2	.1	1.3	.0	.0	.0	.0	1.5
3-4	*	.6	.2	.0	.0	.0	.9
5-6	.0	.2	.1	.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	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	.3	*	.0	.0	4.3

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	2.7	.1	.0	.0	.0	3.9
1-2	.2	5.1	.5	.0	.0	.0	5.9
3-4	.1	1.4	.4	.0	.0	.0	2.0
5-6	.1	.2	.4	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	9.4	1.0	.0	.0	.0	11.8

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	1.6	.0	.0	.0	.0	3.1
1-2	.5	3.1	.4	.0	.0	.0	4.0
3-4	.0	1.8	.3	.0	.0	.0	2.1
5-6	.0	*	.3	.0	.0	.0	.3
7	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	6.8	1.0	.0	.0	.0	9.4

HGT	TOTAL PCT
<1	3.1
1-2	4.0
3-4	2.1
5-6	.3
7	*
8-9	.0
10-11	.0
12	.0
13-16	.0
17-19	.0
20-22	.0
23-25	.0
26-32	.0
33-40	.0
41-48	.0
49-60	.0
61-70	.0
71-86	.0
87+	.0
TOT PCT	89.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	16.5	11.2	.1	.0	.0	.0	27.9	
1-2	2.6	25.4	5.0	.0	.0	.0	33.0	
3-4	.2	10.0	9.8	.6	.0	.0	20.6	
5-6	.1	1.4	8.1	1.2	.0	.0	10.7	
7	.0	.1	2.9	1.1	.1	.0	4.3	
8-9	.0	.1	.3	1.0	.1	.0	1.5	
10-11	.0	.0	.2	.5	.1	.0	1.1	
12	.0	.0	.1	.1	.0	.0	.3	
13-16	.0	.0	.1	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.1	.0	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	19.4	49.1	26.6	5.4	.3	.0	100.0	1624

PERIOD: (OVER-ALL) 1949-1979 Table 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10	11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	6.1	17.0	15.7	8.0	3.2	1.0	.4	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2383	3
6-7	.2	2.2	6.3	6.2	3.3	1.5	.8	.2	.3	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	974	5
8-9	*	.6	2.0	2.1	1.0	.5	.7	.3	.4	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	374	6
10-11	.0	.8	.7	.5	.3	.3	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	130	5
12-13	.0	.0	1.0	.4	.2	.1	*	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	85	5
512	.0	.0	.0	.3	.3	.1	.1	.0	.0	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	37	7
INDET	8.5	1.9	1.5	.9	.3	.1	.1	*	*	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	622	1
TOTAL	681	1036	1254	844	398	142	105	34	45	14	7	1	0	0	0	0	0	0	0	0	4605	*
PCT	14.8	22.5	27.2	18.4	8.6	4.0	2.3	.7	1.0	.3	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1860-1979

AREA CODE NICARAGUA SW COAST
9.6N 86.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG W/O PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW		NO SIG WEA
N	.0	.1	.0	.0	.0	.0	.0	.1	.4	.4	.1	.0	1.4	.2		97.4
NE	.1	*	.1	.0	.0	.0	.0	.1	.1	.6	.1	.0	1.4	.0		97.7
E	.2	.2	.1	.0	.0	.0	.0	.4	.1	.5	.0	.0	1.8	.0		97.3
SE	1.3	.9	.0	.0	.0	.0	.0	2.1	.0	.3	.0	.0	.7	.0		96.9
S	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.6	.0	.0	1.7	.0		96.5
SW	.4	.0	.0	.0	.0	.0	.0	.4	.2	1.3	.0	.0	.4	.0		97.6
W	.0	.4	.0	.0	.0	.0	.0	.4	.4	.5	.4	.0	1.3	.0		96.7
NW	.0	.0	.0	.0	.0	.0	.0	.0	.3	.9	.6	.0	.6	.0		97.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.2	.0	.0	.0	.0	.2	.3	.5	.5	.2	2.8	.0		95.6
TOT PCT	.1	.1	.1	.0	.0	.0	.0	.3	.3	.6	.2	*	1.5	.0		97.2
TOT OBS:	5641															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG W/O PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW		NO SIG WEA
00E03	.1	.1	.1	.0	.0	.0	.0	.1	.3	.1	.2	.0	1.7	.0		97.5
06E09	.2	.1	.1	.0	.0	.0	.0	.4	.2	1.0	.1	.0	1.4	.0		96.1
12E15	.1	.1	.1	.0	.0	.0	.0	.3	.4	.3	.1	.1	1.6	.0		97.3
18E21	.1	.1	.0	.0	.0	.0	.0	.2	.2	.1	.3	.0	1.2	.0		98.0
TOT PCT	.1	.1	*	.0	.0	.0	.0	.3	.3	.5	.2	*	1.5	.0		97.2
TOT OBS:	6051															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.4	9.2	4.4	.5	.1	.0		16.7	9.0	15.5	10.5	11.7	17.0	20.1	16.8	19.4	19.0
NE	1.6	10.9	13.1	3.1	.2	*		29.0	13.1	24.2	20.6	23.3	25.9	33.0	31.6	34.8	29.8
E	1.1	5.7	6.9	1.5	.1	.0		15.3	12.6	13.3	14.5	16.8	13.6	14.2	16.9	16.8	11.5
SE	.9	1.6	.8	.1	.0	.0		3.2	7.8	4.9	4.5	3.8	5.3	1.6	3.1	2.2	4.6
S	.8	1.8	.2	*	.0	.0		2.8	5.9	5.1	4.2	2.4	2.6	1.6	2.7	2.1	3.3
SW	1.1	2.6	.2	.0	.0	.0		3.9	5.7	6.0	7.9	4.5	4.6	2.0	2.4	2.7	5.5
W	2.1	6.6	.5	*	.0	.0		9.2	5.8	13.1	13.3	10.6	10.8	7.5	8.5	6.2	7.2
NW	2.1	6.2	.9	*	*	.0		9.3	6.5	8.2	14.7	9.5	11.1	9.9	11.6	8.7	10.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.8							10.8	.0	9.8	9.8	17.4	9.2	10.0	6.4	7.7	4.4
TOT OBS	1505	2958	1787	341	24	2	4617		9.0	136*	143	1420	174	1454	235	1646	167
TOT PCT	22.7	44.7	27.0	5.2	.4	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	6.9	8.0	1.6	.2	.0		16.7	9.0	15.0	12.3	19.6	19.3
NE	6.2	14.1	7.7	.8	.1		29.0	13.1	23.8	23.6	32.8	34.3
E	3.7	7.1	4.0	.4	.0		15.3	12.6	13.4	16.5	14.6	16.3
SE	1.7	1.3	.2	*	.0		3.2	7.8	4.8	4.0	1.8	2.5
S	1.9	.6	.1	.0	.0		2.8	5.9	5.0	2.4	1.8	2.2
SW	2.6	1.2	*	.0	.0		3.9	5.7	6.2	4.5	2.1	3.0
W	6.2	2.9	.1	.0	.0		9.2	5.8	13.1	10.6	7.6	6.2
NW	5.6	3.4	.2	*	.0		9.3	6.5	8.8	9.7	10.1	8.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	10.8						10.8	.0	9.8	16.5	9.5	7.7
TOT OBS	3029	2570	919	93	6	6617		9.0	1511	1594	1699	1813
TOT PCT	45.8	38.8	13.9	1.4	.1		100.0		100.0	100.0	100.0	100.0

FEBRUARY

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1960-1979

AREA 0010 NICARAGUA SW COAST
9.6N 86.8W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00-03	9.8	14.9	50.6	23.0	2.1	.1	.1	7.8	100.0	1511
06-09	10.5	10.7	44.5	23.2	4.5	.5	.0	8.2	100.0	1594
12-15	9.5	11.6	43.7	29.1	6.2	.4	.0	9.4	100.0	1699
18-21	7.7	12.0	40.8	31.7	7.3	.4	.1	10.1	100.0	1813
TOT	713	792	2956	1787	391	24	2	9.0		6617
PCT	10.8	12.0	44.7	27.0	5.2	.4	*		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	PEAK CLOUD COVER
N	11.7	2.5	2.3	.3		1.9
NE	22.5	3.5	2.4	.2		1.4
E	12.7	1.6	1.2	.2		1.3
SE	2.0	.5	.3	*		1.8
S	1.4	.5	.7	.1		3.0
SW	1.9	.6	.7	.2		2.9
W	5.1	2.1	1.4	.3		2.6
NW	4.1	1.4	1.5	.2		2.4
VAR	.0	.0	.0	.0		.0
CALM	7.9	1.6	1.4	.3		1.8
TOT OBS	3400	714	620	96	4830	
TOT PCT	70.4	14.8	12.8	2.0	100.0	

TABLE 6

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

WND DIR	000-149	150-299	300-599	600-999	1000-1999	2000-3499	3500-4999	5000-6499	6500-7999	8000+	MM <5/8 ANY HGT	TOTAL OBS
N	*	.0	*	.1	.3	.2	.1	.1	.1	*	15.8	
NE	*	.1	*	.2	.3	.1	.2	.1	.1	.1	24.1	
E	.0	*	*	.2	.2	.1	.1	*	*	.1	15.0	
SE	.0	.0	.0	*	*	*	.0	.0	*	.0	2.8	
S	*	.0	*	.1	.2	.1	*	*	.0	.0	2.3	
SW	.0	*	*	.1	.2	.1	*	.0	.0	*	3.2	
W	*	.0	*	.2	.4	.3	.1	*	.1	*	8.2	
NW	*	.0	.0	.2	.3	.3	.1	.1	.0	*	7.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	*	.1	*	.3	.1	.1	.1	.0	.0	10.4	
TOT OBS	6	3	12	55	105	67	31	19	9	10	4513	4830
TOT PCT	.1	.1	.2	1.1	2.2	1.4	.6	.4	.2	.2	93.4	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.4	.4	.4	.4	.4	.4	.4	.4
= OR >5000	.7	.8	.8	.8	.8	.8	.8	.8
= OR >3500	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4
= OR >2000	2.6	2.7	2.8	2.8	2.8	2.8	2.8	2.8
= OR >1000	4.7	4.9	4.9	4.9	4.9	4.9	4.9	4.9
= OR >600	5.7	6.0	6.0	6.0	6.0	6.0	6.0	6.0
= OR >300	5.9	6.2	6.3	6.3	6.3	6.3	6.3	6.3
= OR >150	5.9	6.2	6.3	6.3	6.3	6.3	6.3	6.3
= OR > 0	6.0	6.3	6.4	6.4	6.4	6.4	6.4	6.4
TOTAL	297	314	320	320	320	320	320	321

TOTAL NUMBER OF OBS: 4960

PCT FREQ MM <5/8: 93.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
47.7	22.5	12.5	6.9	3.9	2.3	1.8	1.5	.8 .1	5287

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1867-1979

AREA 0010 NICARAGUA SW COAST
9.6N 86.8W

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	*	.0	.0	.0	.0	.0	*	.0	.0	*	.1	
	TOT %	*	.0	.0	.0	.0	.0	*	.0	.0	*	.1	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	*	.0	.0	*	.0	*	.0	.0	.0	.0	.1	
	NO PCP	*	*	*	*	*	*	*	.1	.0	.2	.4	
	TOT %	*	*	*	.1	*	.1	*	.1	.0	.2	.5	
5<10	PCP	.0	*	*	*	.0	.0	.0	.0	.0	*	.1	
	NO PCP	.5	1.2	.5	.1	*	.2	.4	.4	.0	.5	3.6	
	TOT %	.5	1.2	.5	.1	*	.2	.4	.4	.0	.5	3.9	
10+	PCP	.0	*	*	*	.0	.0	*	.0	.0	.0	.1	
	NO PCP	16.3	27.7	14.8	2.9	2.8	3.7	9.0	8.6	.0	9.9	95.6	
	TOT %	16.3	27.7	14.8	2.9	2.8	3.7	9.0	8.6	.0	9.9	95.6	
	TOT OBS												5831
	TOT PCT	16.9	29.9	15.3	3.0	2.8	3.9	9.4	9.1	.0	10.6	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	*	.1	
	4-10	*	.0	.0	.0	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.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		*
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0			.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0			.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0			.0
	TOT %	*	.0	.0	.0	.0	.0	.0	.0	.0	.0		*
1<2	0-3	.0	.0	.0	.0	.0	.0	*	.0	.0	.0		*
	4-10	*	.0	.0	.0	.0	.0	.0	.0	.0			*
	11-21	.0	.0	.0	*	.0	.0	.0	.0	*			*
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0			.0
	TOT %	*	.0	.0	*	.0	.0	*	.0	.0	.0		*
2<5	0-3	*	.0	.0	.0	*	*	*	*	.0	.1		.3
	4-10	*	*	*	*	.0	*	*	*	.0			.2
	11-21	.0	*	*	*	.0	.0	.0	.0	.0			.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0			.0
	TOT %	*	*	.1	.1	*	.1	*	.1	.0	.1		.5
5<10	0-3	.2	.1	*	*	*	*	.2	.1	.0	.5		1.1
	4-10	.3	.4	.2	*	*	.1	.2	.3	.0			1.6
	11-21	.1	.4	.2	*	.0	*	*	*	.0			.8
	22+	*	.3	.1	*	.0	.0	.0	.0	.0			.5
	TOT %	.6	1.2	.5	.1	*	.2	.4	.4	.0	.5		3.9
10+	0-3	2.2	1.5	1.0	.8	.7	.9	1.9	1.6	.0	9.9		20.8
	4-10	9.0	10.4	5.4	1.9	1.7	2.5	6.4	5.8	.0			42.7
	11-21	4.4	12.8	6.9	.4	.2	.2	.5	.9	.0			26.6
	22+	.6	3.1	1.5	.1	*	.0	*	*	.0			5.3
	TOT %	16.2	27.8	14.9	2.9	2.7	3.6	8.9	8.5	.0	9.9		95.4
	TOT OBS												5179
	TOT PCT	16.9	29.0	15.5	3.1	2.8	3.9	9.3	9.0	.0	10.6	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1960-1979

AREA 0010 NICARAGUA SW COAST
9.0N 86.8W

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	4M <5/8 ANY HGT	TOTAL OBS
00E03	.2	.0	.3	1.2	1.9	1.3	.6	.6	.2	.3	6.9	93.1	1295
06E09	.0	.0	.2	.8	2.4	1.3	.6	.2	.1	.1	5.8	94.2	1236
12E15	.2	.1	.4	1.5	2.5	1.5	.6	.1	.3	.3	7.7	92.3	1368
18E21	.1	.0	.0	.7	1.1	1.0	.6	.4	.1	.1	4.2	95.8	1372
TOT	7	3	12	55	108	66	32	19	9	10	323	4948	5271
PCT	.1	.1	.2	1.0	2.0	1.3	.6	.4	.2	.2	6.1	93.9	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	.1	.5	3.5	95.6	1491
06E09	.1	.0	.0	.7	5.1	94.1	1536
12E15	.1	.0	.1	.4	3.7	95.6	1649
18E21	.1	.1	.0	.5	3.2	96.2	1716
TOT	6	2	3	34	249	6096	6392
PCT	.1	*	*	.5	3.9	95.4	100.0

TABLE 12

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

HOUR (GMT)	<150 <5DYD	<600 <1	<1000 <5	1000+ AND5+	4M <5/8 AND 5+	TOTAL OBS
00E03	.2	.6	2.3	5.4	92.4	3233
06E09	.1	.3	1.6	4.4	93.5	3174
12E15	.2	.9	2.7	5.9	91.4	3283
18E21	.2	.3	1.1	3.5	95.5	3300
TOT	*	27	95	244	4651	4990
PCT	.2	.5	1.9	4.9	93.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	*	*	.0	*	.0	4	.1
90/94	.0	*	.1	.3	.4	.1	.0	.0	42	.8
85/89	.0	.0	.3	.9	2.6	2.7	.5	.1	360	7.1
80/84	.0	.0	.1	1.0	8.5	27.0	14.6	2.8	2754	53.9
75/79	.0	.0	.0	.2	1.3	9.8	15.2	6.6	1690	33.1
70/74	.0	.0	.0	.0	.1	.5	2.0	2.3	248	4.9
65/69	.0	.0	.0	.0	.0	*	*	.1	8	.2
TOTAL	0	1	21	115	660	2047	1657	605	5106	100.0
PCT	.0	*	.4	2.3	12.9	40.1	32.5	11.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	*	*	*	.0	.0	.0	.0	*	.0	.0
	.2	.2	.1	.1	*	*	.1	.1	.0	.1
	1.2	1.5	.9	.4	.2	.4	.9	.9	.0	.7
	9.4	13.4	7.5	1.7	1.7	2.6	6.2	5.2	.0	6.3
	5.1	12.1	5.9	.7	.6	.7	2.3	2.3	.0	3.5
	.6	2.2	.7	*	*	*	.2	.2	.0	.7
	.0	.1	*	.0	.0	.0	.0	.0	.0	.0
	16.6	29.6	15.0	2.8	2.5	3.7	9.6	8.7	.0	11.3

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	94	88	86	81	75	73	68	80.0	1568
06E09	95	86	83	80	74	71	68	79.3	1665
12E15	89	85	83	79	73	70	68	78.8	1724
18E21	97	91	88	82	75	73	68	80.0	1465
TOT	97	89	86	81	75	72	68	80.3	6792

TABLE 16

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	1.9	12.2	46.8	29.5	9.6	78	1267
06E09	.0	.5	7.0	35.8	39.2	17.5	81	1277
12E15	.0	1.4	9.5	36.4	36.4	16.3	80	1353
18E21	.0	6.4	22.0	41.5	25.0	5.0	74	1388
TOT	0	139	679	2118	1714	635	78	5285

FEBRUARY

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1960-1979

AREA CODE NICARAGUA SW COAST
9.6N 86.8W

TABLE 17

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

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	N FOG	%0 FOG
17/19	.0	.0	.0	.0	.0	.0	*	*	3	.0	.1
14/16	.0	.0	.0	.0	*	*	.0	.1	8	.0	.1
11/13	.0	.0	.0	.1	.3	.2	.1	.1	41	.0	.8
9/10	.0	.0	.1	.3	.5	.3	.2	*	77	.1	1.4
7/8	.0	.1	.2	.5	.7	.6	.3	.0	124	.0	2.2
6	.0	.0	.2	.6	.6	.4	.1	.0	110	*	2.0
5	.0	*	.4	1.1	1.2	.9	.2	.0	214	*	3.9
4	.0	.1	.3	1.1	1.4	.5	.1	.0	236	.0	4.3
3	.0	*	.4	1.3	2.2	.6	*	.0	272	.0	4.9
2	.0	.3	.6	3.0	2.7	.9	.0	.0	444	.0	8.0
1	.0	.2	1.0	3.2	4.0	.9	.0	.0	521	.1	9.4
0	.0	.1	1.7	5.8	6.4	.7	.0	.0	789	*	14.3
-1	.0	.1	.9	4.6	5.9	.3	.0	.0	654	.0	11.8
-2	*	.2	1.7	5.2	5.6	.1	.0	.0	674	.1	12.1
-3	.0	*	.7	4.4	2.8	*	.0	.0	433	.0	7.8
-4	.0	.1	.5	3.8	2.2	.1	.0	.0	368	*	6.6
-5	*	.1	.4	2.8	.9	.0	.0	.0	236	.0	4.3
-6	*	.1	.6	1.8	.3	.0	.0	.0	115	.0	2.1
-7/-8	.0	.1	.4	1.2	.2	*	.0	.0	126	.0	2.3
-9/-10	*	.1	*	.2	*	.0	.0	.0	31	.0	.6
-11/-13	.0	.1	.0	.1	.0	.0	.0	.0	6	.0	.1
-14/-16	.0	.0	.0	*	.0	.0	.0	.0	1	.0	*
TOTAL	5	574		2173		56		12	5526	10	%516
		43	2235		348						
PCT	.1	1.5 10.4	40.4	39.3	7.0	1.0	.2		103.6	.7	99.8

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.4	1.5	.1	.0	.0		2.9
1-2	.7	4.7	1.1	.0	.0		6.5
3-4	.2	1.7	2.5	.0	.0		7.9
5-6	.1	.7	.8	.2	.0		1.7
7	.0	.1	.6	.1	.0		.9
8-9	.0	.0	.2	.1	.0		.3
10-11	.0	.0	.1	.1	.0		.2
12	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0		.0
TOT PCT	2.3	8.6	5.4	.5	.0	.0	16.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.6	2.2	.0	.0	.0	.0	4.9
1-2	5.6	2.4	.0	.0	.0	.0	8.0
3-4	3.4	4.0	.3	.0	.0	.0	7.9
5-6	.3	3.7	.7	*	.0	.0	4.7
7	.1	1.0	.6	.1	.2	.0	2.1
8-9	.0	.0	.6	.7	.1	.0	1.3
10-11	.0	.0	.2	.3	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	12.0	11.7	12.0	2.6	.3	.2	38.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.8	.0	.0	.0	.0	1.3
1-2	.4	3.2	1.0	.0	.0	.0	4.6
3-4	.0	1.2	2.8	.1	.0	.0	4.1
5-6	.0	.4	1.3	.4	.0	.0	2.2
7	.0	.1	1.1	.2	.0	.0	1.4
8-9	.0	.0	.2	.2	.0	.0	.4
10-11	.0	.0	.1	.1	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	5.5	7.0	.9	.1	.0	14.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.5	.0	.0	.0	.0	.8
1-2	.2	1.2	.3	.0	.0	.0	1.7
3-4	.0	.2	.3	.0	.0	.0	.5
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	1.2	1.9	.4	.0	.0	.0	3.5

PERIOD: (OVER-ALL) 1963-1979 FEBRUARY AREA GOIO NICARAGUA SW COAST 9.6N 86.8W

TABLE 16 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.6	.5	.0	.0	.0	1.2
1-2	.2	.9	.2	.0	.0	.0	1.3
3-4	.0	.3	.1	.0	.0	.0	.4
5-6	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	3.3	.3	.0	.0	.0	4.6

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.6	.0	.0	.0	.0	2.3
1-2	.6	3.3	.4	.0	.0	.0	4.4
3-4	.1	1.0	.1	.0	.0	.0	1.3
5-6	.0	.4	.1	.0	.0	.0	.5
7	.0	*	.1	.0	.1	.0	.2
8-9	.0	.1	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	7.2	.8	.0	.2	.0	9.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.2	2.2	.5	.0	.0	.0	3.6	
1-2	.8	3.6	.6	.0	.0	.0	4.6	
3-4	.2	.6	.2	.0	.0	.0	1.3	
5-6	.0	.2	.1	.0	.0	.0	.3	
7	.0	.1	.0	.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	2.2	6.4	.7	.0	.1	.0	9.7	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	15.6	10.4	.2	.3	.0	.0	30.5	
1-2	3.9	23.5	6.0	.0	.0	.0	33.5	
3-4	.9	8.4	9.7	.4	.0	.0	19.4	
5-6	.1	2.0	5.7	1.3	.1	.0	9.1	
7	.0	.5	2.7	.9	.1	.1	4.4	
8-9	.0	.1	.6	1.0	.1	.0	1.9	
10-11	.0	.0	.4	.4	.0	.0	.8	
12	.0	.0	.0	.2	.0	.0	.2	
13-16	.0	.0	.0	.2	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	20.6	44.9	25.7	4.1	.3	.1	100.0	1351

PERIOD: (OVER-ALL) 1949-1979

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	6.6	16.9	14.9	7.3	3.5	1.2	.4	.2	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	2275	3
6-7	.1	2.4	6.1	5.6	3.2	1.1	.9	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	884	5
8-9	.1	.4	2.0	1.7	1.1	.7	.5	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	332	5
10-11	.0	.1	.4	.7	.4	.1	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	138	6
12-13	.0	.0	.1	.2	.1	*	*	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	101	5
>13	.0	.0	.0	.1	.1	*	*	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	48	8
INDET	10.4	1.5	1.6	.7	.4	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	668	3
TOTAL	760	995	1170	772	427	165	110	24	32	10	1	0	0	0	0	0	0	0	0	4426	3
PCT	17.2	22.5	26.4	16.4	9.6	3.7	2.5	.7	.7	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1953-1970 AREA CODE NICARAGUA SW COAST
(OVER-ALL) 1977-1978 9.6% 86.7%

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.1	.1	.0	.0	.0	.0	.0	.4	.2	.3	.1	.1	2.4	.1	96.1	
NE	.1	*	.1	.0	.0	.0	.0	.1	*	.6	.2	.0	3.3	*	95.7	
E	.3	.1	.0	.0	.0	.0	.0	.4	.1	.7	.3	.0	4.7	.2	93.2	
SE	.0	.0	.0	.0	.0	.0	.0	.3	.5	.6	.1	.0	4.1	.0	94.7	
S	.3	.0	.0	.0	.0	.0	.0	.3	.4	.4	.0	.0	3.1	.3	95.9	
SW	.4	.1	.3	.0	.0	.0	1.0	.7	2.2	.0	.0	.0	3.6	.1	92.9	
W	.1	.0	.2	.0	.0	.0	.0	.3	.4	.4	.1	.0	3.7	.0	95.1	
NW	.1	.1	.2	.0	.0	.0	.0	.4	.4	.6	.2	.0	2.5	.0	95.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.1	.0	.0	.0	.0	.1	.1	.8	.7	.0	7.9	.1	90.4	
TOT PCT	.1	.1	.1	.0	.0	.0	.0	.3	.2	.7	.3	*	4.0	.1	94.6	
TOT OBS:	6554															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00E03	.1	.0	.0	.0	.0	.0	.0	.1	.1	.3	.0	.0	3.0	.0	96.7	
06E09	.1	.1	.1	.0	.0	.0	.0	.3	.2	1.9	.4	.0	4.5	.0	92.7	
12E15	.2	.3	.1	.0	.0	.0	.0	.6	.2	.7	.7	.1	4.5	.1	93.1	
18E21	.1	.0	.1	.0	.0	.0	.0	.2	.3	.0	.2	.0	3.5	.2	95.7	
TOT PCT	.1	.1	.1	.0	.0	.0	.0	.3	.2	.7	.3	*	3.9	.1	94.6	
TOT OBS:	6765															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	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	8.4	3.1	.2	.0	.0		14.7	7.9	12.8	9.4	10.2	11.4	17.0	19.1	17.7	16.7
NE	7.2	11.5	10.5	2.5	.1	.0		26.7	12.0	22.0	16.7	27.2	24.2	30.3	27.6	33.6	26.3
E	1.4	6.0	6.2	1.5	.1	.0		15.3	12.3	12.9	15.4	15.9	14.5	14.7	14.9	17.4	14.5
SE	.8	1.8	.7	*	*	.0		3.3	7.3	4.2	7.7	3.8	5.3	2.3	1.3	2.8	3.8
S	1.1	2.3	.3	.0	.0	.0		3.7	5.6	7.4	4.2	3.7	5.3	1.5	2.3	2.6	2.2
SW	1.3	3.3	.3	*	.0	.0		5.1	5.9	9.3	9.2	5.6	6.7	3.0	5.1	2.3	7.1
W	2.4	6.6	.6	*	.0	.0		9.4	5.8	12.6	15.8	11.2	8.3	7.8	8.5	6.3	11.3
NW	2.6	7.1	.6	*	*	.0		10.5	6.3	9.9	12.9	10.8	14.2	11.1	13.0	8.6	13.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	11.4							11.4	.0	9.0	8.8	10.7	10.0	11.8	7.2	8.4	4.7
TOT OBS	1908	3439	1666	313	15	0	7341		8.2	1551	114	1566	162	1824	235	1894	172
TOT PCT	26.0	46.8	22.7	4.3	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	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	6.3	1.1	*	.0		14.7	7.9	12.6	10.4	17.3	17.6
NE	6.9	13.2	6.0	.6	*		26.7	12.0	21.6	20.6	29.9	33.0
E	4.2	7.1	3.4	.4	*		15.3	12.3	13.1	15.7	14.7	17.4
SE	1.8	1.3	.2	*	.0		3.3	7.3	4.4	4.0	2.2	2.8
S	2.6	1.0	*	.0	.0		3.7	5.6	7.1	3.8	1.6	2.6
SW	3.3	1.7	.1	.0	.0		5.1	5.9	9.3	5.7	3.3	2.7
W	6.4	3.0	.1	*	.0		9.4	5.8	12.8	10.9	8.0	6.8
NW	6.5	3.8	.1	*	.0		10.5	6.3	10.1	11.1	11.7	9.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	11.4						11.4	.0	8.9	17.9	11.3	9.1
TOT OBS	7705	2735	627	73	1	7341		8.2	1665	1746	1864	2066
TOT PCT	50.5	37.3	11.3	1.0	*		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1953-1979
(OVERFALL) 1972-1979

AREA 0010 NICARAGUA SW COAST
9.6N 86.7W

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
0561-3	6.9	17.6	54.5	16.9	3.6	.1	.0	7.2	100.0	1665
0561-9	17.9	25.7	45.2	10.8	3.1	.3	.0	7.1	100.0	1746
12615	11.3	12.1	44.4	24.7	6.0	.1	.0	8.7	100.0	1669
1821	6.1	12.4	43.9	29.2	5.7	.3	.0	9.5	100.0	2066
TOT	839	1069	3439	1686	313	15	0	8.2		7341
PCT	11.4	14.6	46.8	22.7	4.3	.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 & OBSCR	TOTAL OBS	MEAN CLOUD COVER
N	9.6	2.4	2.2	.6		2.2
NE	19.2	4.2	3.1	.2		1.6
E	11.4	2.1	1.7	.5		1.7
SE	3.4	.5	.5	.2		2.5
S	2.6	.7	.4	.2		2.6
SW	7.6	1.2	.9	.3		2.3
W	5.2	2.2	1.7	.5		2.7
NW	5.4	2.1	1.7	.6		2.7
VAR	.0	.0	.0	.0		.0
CALM	7.6	1.8	1.5	.4		2.0
TOT OBS	3682	928	764	211	5870	2.1
TOT PCT	64.7	17.2	14.2	3.9	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	4M <5/8 ANY HGT	TOTAL OBS
N	.1	.0	*	.2	.3	.2	.1	.1	*	.1	13.7	
NE	.0	*	*	.2	.5	.2	.1	.1	*	.1	25.7	
E	*	*	*	.2	.3	.2	.1	*	*	.1	14.8	
SE	.0		.0	.1	.2	.1	*	.0	.0	.0	2.7	
S	.0	.0	*	*	.3	.1	*	*	.0	*	3.3	
SW	*	.0	.0	.1	.2	.1	*	.0	.0	*	4.6	
W	*	*	*	.1	.4	.2	.1	*	*	*	8.4	
NW	.1	*	*	.2	.2	.1	.1	*	*	*	9.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	.0	*	.1	.3	.1	.1	*	.1	.1	10.6	
TOT OBS	10	5	6	66	142	71	37	14	13	23	5011	5800
TOT PCT	.2	.1	.1	1.7	2.6	1.3	.7	.3	.2	.4	92.9	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >0.0	= OR >0
= OR >6500	.6	.7	.7	.7	.7	.7	.7	.7
= OR >5000	.6	.6	.6	.6	.6	.6	.6	.6
= OR >3500	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
= OR >2000	2.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6
= OR >1000	4.2	5.4	5.5	5.5	5.5	5.5	5.5	5.5
= OR >600	5.7	6.6	6.7	6.8	6.8	6.8	6.8	6.8
= OR >300	5.8	6.7	6.8	6.9	6.9	6.9	6.9	6.9
= OR >150	5.9	6.8	6.9	7.0	7.0	7.0	7.0	7.0
= OR > 0	6.0	7.0	7.1	7.1	7.1	7.1	7.2	7.2
total	395	398	395	398	398	399	401	401

TOTAL NUMBER OF OBS: 5578 PCT FREQ 4M <5/8: 92.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
42.3	17.5	12.6	4.5	4.8	2.5	2.1	1.7	1.2 .1	5896

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1872-1979

AREA 0010 NICARAGUA SW COAST
0.0N 80.7W

TABLE 8

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

VSBY (KM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.4	
5<10	PCP	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	NO PCP	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	
	TOT %	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
10+	PCP	.4	.0	.0	.0	.0	.0	.0	.0	.0	10.4	10.8	
	NO PCP	13.6	25.5	34.3	27.6	6.0	2.4	1.4	.0	.0	10.4	92.7	
	TOT %	14.0	25.5	34.3	27.6	6.0	2.4	1.4	.0	.0	10.4	92.8	
													6540
	TOT OBS	944	1716	2309	1858	403	161	94	0	0	709	6720	
	TOT PCT	14.1	25.5	34.4	27.6	6.0	2.4	1.4	.0	.0	10.6	100.0	

TABLE 9

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

VSBY (KM)	SPD	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	KTS												
	0-3	.0	.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	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.1	.0	.1	.0	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.0	.2	.0	.0	.0	.0	.0	.0	.1	.4	
5<10	0-3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.4	.0	.0	.0	.0	.0	.0	.0	.0		.4	
	11-21	.3	.0	.0	.0	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.9	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.0	
10+	0-3	2.5	1.8	1.2	.7	.2	.1	.0	.0	.0	10.4	23.1	
	4-10	7.6	11.2	5.6	2.1	.5	.2	.1	.0	.0		29.4	
	11-21	3.0	10.3	3.5	.2	.0	.0	.0	.0	.0		17.0	
	22+	.0	2.4	.1	.0	.0	.0	.0	.0	.0		.0	
	TOT %	13.6	25.5	10.3	2.9	.8	.3	.2	.0	.0	10.4	92.5	
													6967
	TOT OBS	948	1778	1078	202	56	21	14	0	0	724	6967	
	TOT PCT	14.6	26.9	15.6	3.2	1.0	5.0	9.4	10.1	.0	11.5	100.0	

PERIOD: (MAR-APR) 1953-1979
(OVER-ALL) 1952-1979

AREA 0013 NICARAGUA SW COAST
9.6N 86.7W

TABLE 10

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

HOUR (GMT)	0FD 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	HH <5/8 ANY HGT	TOTAL OBS
00E03	.1	.1	.2	.7	1.7	1.5	.8	.1	.2	.5	6.0	94.0	1421
06E09	.3	.1	.1	.4	2.7	1.0	.5	.2	.2	.9	6.4	93.6	1346
12E15	.3	.1	.1	2.2	2.7	1.3	.5	.3	.3	.5	8.3	91.7	1509
18E21	.1	.0	.1	.8	3.3	1.1	.4	.3	.2	.4	6.6	93.1	1568
TOT	11	5	8	46	147	73	35	14	16	25	404	5443	5844
PCT	.2	.1	.1	1.0	2.5	1.2	.7	.2	.2	.4	6.9	93.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (SM) BY HOUR

HOUR (GMT)	<1/2	1/2E1	1E2	2E5	5E10	10+	TOTAL OBS
00E03	.0	.1	.1	.7	5.2	94.0	1643
06E09	.1	.0	.2	1.1	7.9	90.7	1693
12E15	.3	.1	.2	1.1	7.7	90.6	1927
18E21	.0	.0	.2	1.0	4.3	94.5	1939
TOT	8	3	11	69	444	6567	7202
PCT	.1	*	.2	1.0	6.2	92.5	100.0

TABLE 12

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

HOUR (G-T)	<150 <5DYD	<600 <1	<1000 <2	1000+ AND/OR	HH <5/8 AND 5+	TOTAL OBS
03E03	.1	.4	1.6	9.4	93.5	1359
06E09	.3	.5	2.4	5.1	92.5	1786
12E15	.3	.6	3.5	5.8	90.7	1639
18E21	.1	.2	1.5	5.9	92.6	1894
TOT	12	27	127	303	5148	5574
PCT	.2	.5	2.3	5.4	92.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-26	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	*	*	*	.0	.0	4	.1
90/94	.0	.1	.0	.3	.5	.3	.1	.0	65	1.1
85/89	.1	*	.7	.9	4.0	5.5	1.9	.4	735	12.9
80/84	.0	.0	.1	.9	8.4	27.6	19.3	3.9	3487	61.2
75/79	.0	.0	.0	*	.5	5.9	11.4	5.1	1296	22.9
70/74	.0	.0	.3	.4	.0	.1	.6	1.0	96	1.7
65/69	.0	.1	.3	.0	.0	.0	*	*	7	*
TOTAL	5	1	14	122	814	2233	1681	593	5693	100.0
PCT	.0	*	.3	2.2	14.4	39.4	33.1	10.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

%	FE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	*	.0	.0	*	.0	.0
.2	.3	.1	*	*	*	.2	.1	.0	.2
2.3	2.4	1.4	.6	.7	.7	1.7	1.8	.0	1.3
9.0	15.3	8.9	2.1	2.2	3.7	6.4	6.2	.0	7.9
2.8	8.4	4.8	.4	.5	.5	1.1	1.8	.0	2.7
.2	1.0	.3	*	.0	.0	*	.1	.0	.1
*	.0	*	.0	.0	.0	.0	.0	.0	.0
14.6	27.3	15.4	3.1	3.4	4.9	9.4	10.1	.0	11.7

TABLE 15

PEAKS,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	82	72	70	67	79.0	1712
06E09	89	86	84	81	76	73	66	80.5	1797
12E15	89	84	84	82	75	72	67	80.0	1913
18E21	97	91	89	83	77	75	72	83.2	2121
TOT	99	90	87	82	76	72	67	81.5	7543

TABLE 16

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	14.0	45.2	31.4	8.1	78	1396
06E09	.0	.6	7.6	36.5	40.0	15.3	81	1401
12E15	.0	1.0	9.9	33.6	39.6	15.8	81	1501
18E21	.0	6.9	25.2	42.2	22.7	3.5	74	1565
TOT	0	141	695	2312	1967	618	78	5863

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1972-1979

AREA 0010 NICARAGUA SW COAST
9.6N 86.7W

TABLE 17

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

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
17/19	.0	.0	.0	.0	*	*	*	*	8	.0	.1
14/16	.0	.0	.0	*	.1	*	.0	*	11	.0	.2
11/13	.0	.0	.0	*	.2	.3	.1	*	42	*	.7
9/10	.0	.0	.0	.1	.4	.4	.1	*	67	.0	1.1
7/8	.0	.0	*	.5	.9	.6	.3	*	146	.0	2.4
6	.0	.0	*	.5	.8	.5	.2	.0	125	*	2.0
5	.0	.2	.2	.7	1.1	.6	.4	*	202	*	3.2
4	.0	.0	.2	1.2	1.6	1.2	.3	.0	287	.0	4.6
3	.0	*	.3	1.2	1.8	1.2	.2	.0	300	.0	4.8
2	.0	.0	.5	2.7	3.8	1.7	.1	.0	546	*	8.8
1	.0	*	.7	2.3	4.4	1.6	.1	.0	564	*	9.1
0	.0	*	.7	3.9	8.1	1.8	*	.0	904	*	14.5
-1	.0	*	.8	2.9	6.6	1.1	.0	.0	707	*	11.4
-2	.0	*	.6	3.5	7.7	.9	.0	.0	749	.1	12.0
-3	.0	.0	.6	3.0	4.9	.2	.0	.0	525	*	8.5
-4	.0	*	.6	2.6	3.9	*	.0	.0	444	.0	7.2
-5	*	*	.3	1.9	2.0	.1	.0	.0	267	*	4.3
-6	.0	.1	.1	1.2	.5	.0	.0	.0	130	.0	2.1
-7/-8	.0	*	.3	1.1	.5	*	.0	.0	122	.0	2.0
-9/-10	.0	*	.1	.2	*	.0	.0	.0	25	.0	.4
-11/-13	*	*	.1	.1	*	.0	.0	.0	21	.0	.4
TOTAL	4		381		3057		108			20	6174
		20		1654		753		15	6194		
PCT	.1	.3	6.2	29.9	49.4	12.2	1.7	.2	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	2.0	.1	.0	.0	.0	3.2
1-2	.6	5.0	.9	.0	.0	.0	6.5
3-4	.3	1.9	1.9	.0	.0	.0	4.2
5-6	.1	.4	.7	.0	.0	.0	1.2
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	2.2	9.3	3.9	.1	.0	.0	15.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	2.2	*	.0	.0	.0	3.3
1-2	.6	3.6	1.9	.0	.0	.0	8.1
3-4	.1	3.2	3.7	.3	.0	.0	7.2
5-6	.0	.5	4.1	.4	*	.0	5.1
7	.0	.1	1.8	1.1	.0	.0	2.9
8-9	.0	*	.3	.4	.1	.0	.8
10-11	.0	.0	.2	.3	.0	.0	.5
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	*	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	11.6	12.0	2.6	.1	.0	28.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.2	.0	.0	.0	.0	1.6
1-2	.4	2.6	1.3	.0	.0	.0	4.3
3-4	.0	1.8	1.2	.1	.0	.0	3.4
5-6	.0	.5	1.3	.1	.0	.0	2.7
7	.0	.1	.6	.3	.0	.0	1.1
8-9	.0	.1	.2	.3	.0	.0	.5
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	6.3	5.3	1.6	.1	.0	14.0

SE

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

PERIOD: (OVER-ALL) 1963-1979

TABLE 18 (CONT)

AREA 0010 NICARAGUA SW COAST 9.6N 86.7W

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.6	.1	.0	.0	.0	.9
1-2	.6	1.2	.1	.0	.0	.0	1.9
3-4	.2	.5	.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	.3	2.3	.3	.0	.0	.0	2.9

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	3.7	.5	.0	.0	.0	5.3
1-2	1.0	2.0	.0	.0	.0	.0	3.0
3-4	.9	4.8	.5	.0	.0	.0	6.3
5-6	.0	.5	.3	.0	.0	.0	1.1
7	.0	.0	.1	.0	.0	.0	.2
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.0	11.0	1.0	.0	.0	.0	15.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	3.2	2.7	.0	.0	.0	.0	5.8
1-2	.7	3.6	.6	.0	.0	.0	4.9
3-4	.1	1.0	.2	.0	.0	.0	1.3
5-6	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	7.4	.9	.0	.0	.0	10.2

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	2.0	.0	.0	.0	.0	3.0
1-2	.9	4.8	.5	.0	.0	.0	6.3
3-4	.0	.5	.3	.0	.0	.0	1.1
5-6	.0	.1	.1	.0	.0	.0	.2
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	7.7	1.0	.0	.0	.0	10.6	89.4

TOTAL PCT

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	16.9	12.0	.1	.0	.0	.0	31.0	
1-2	3.9	25.1	5.4	.0	.0	.0	34.4	
3-4	.2	9.6	8.2	.4	.0	.0	19.0	
5-6	.1	1.7	6.2	1.1	.1	.0	9.2	
7	.0	.2	2.6	1.3	.0	.0	4.2	
8-9	.0	.1	.5	.7	.1	.0	1.3	
10-11	.0	.0	.2	.3	.0	.0	.5	
12	.0	.0	.0	.1	.0	.0	.1	
13-16	.0	.0	.0	.0	.1	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	23.7	48.7	23.4	4.0	.2	.0	100.0	1492

PERIOD: (OVER-ALL) 1949-1979

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	8.1	19.0	14.1	6.5	2.3	1.1	.3	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2582	3
6-7	.2	2.5	5.5	5.2	2.2	1.2	.7	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	896	5
8-9	*	1.1	2.4	1.7	1.0	.5	.4	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	360	5
10-11	.0	.9	1.1	.8	.3	.2	*	*	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	177	4
12-13	.0	.0	1.0	.5	.4	*	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	102	5
>13	.0	.0	.0	.5	.2	*	*	*	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	43	6
INDET	11.9	1.8	2.1	.9	.4	.1	*	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	859	1
TOTAL	1 10	1247	1397	804	345	157	79	23	19	8	0	0	0	0	0	0	0	0	0	5019	3
PCT	20.1	25.2	26.0	16.0	6.9	3.1	1.6	.5	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1953-1979
(OVERALL) 1962-1979

AREA CODE NICARAGUA SW COAST
9.6N 86.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.1	.5	.1	.0	.0	.0	.0	.6	.2	.9	.1	.0	3.3	.0	94.9
NE	.4	.2	*	.0	.0	.0	.0	.7	*	1.4	.2	.0	4.0	.3	93.4
E	.3	.2	.5	.0	.0	.0	.0	.9	.6	1.4	.1	.0	5.2	.1	91.2
SE	1.7	.7	.4	.0	.0	.0	.0	2.7	2.2	3.8	.6	.0	2.6	.0	88.5
S	1.5	.2	.2	.0	.0	.0	.0	2.0	3.4	2.3	.2	.0	3.9	.0	88.3
SW	1.2	1.0	.3	.0	.0	.0	.0	2.4	1.7	3.9	.1	.0	4.6	.0	87.3
W	.3	.5	.5	.0	.0	.0	.0	1.4	1.9	4.1	.3	.0	3.6	.0	88.8
NW	.5	.1	.8	.0	.0	.0	.0	1.3	1.2	2.1	.4	.0	4.0	.0	90.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.1	.6	.0	.0	.0	.0	.0	.8	.4	2.1	1.0	.1	9.4	.0	86.3
TOT PCT	.5	.4	.3	.0	.0	.0	.0	1.2	1.0	2.2	.3	*	4.9	.1	90.4
TOT OBS\	6200														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00E03	.4	.2	.1	.0	.0	.0	.0	.8	.6	.4	.1	.0	5.5	.1	91.9
06E09	.7	.3	.1	.0	.0	.0	.0	1.1	.7	5.7	.4	.0	5.2	.2	86.9
12E15	.3	.7	.7	.0	.0	.0	.0	2.1	1.5	2.3	.8	.0	4.6	.1	88.8
18E21	.4	.5	.2	.0	.0	.0	.0	1.1	1.1	.4	.2	.1	4.3	.1	92.9
TOT PCT	.6	.4	.3	.0	.0	.0	.0	1.3	1.0	2.3	.4	*	4.9	.1	90.2
TOT OBS:	6425														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	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	6.5	2.2	.1	.0	.0		11.2	7.7	8.4	9.6	6.4	10.4	14.5	15.1	14.3	13.0
NE	1.9	9.0	7.9	1.1	*	.3		19.8	11.1	16.3	17.2	12.6	23.3	23.2	18.8	25.6	25.8
E	1.6	7.0	5.9	.7	.0	.0		15.1	10.7	12.3	12.8	15.6	15.3	15.6	16.2	17.2	9.4
SE	1.2	3.5	1.0	*	.0	.0		5.7	7.2	7.1	8.7	8.0	4.4	3.1	5.0	4.6	7.2
S	1.6	4.4	.7	*	.0	.0		6.8	6.3	10.8	8.1	7.3	5.9	4.7	6.3	5.3	7.9
SW	1.6	5.5	.4	.1	.0	.0		7.9	6.4	12.8	12.4	6.7	9.1	5.1	3.2	5.5	8.6
W	2.6	8.0	1.0	*	.0	.0		11.7	6.2	14.4	11.7	13.8	13.3	12.8	13.3	8.4	9.7
NW	1.9	5.9	.9	.0	.0	.0		8.8	6.3	5.9	7.2	8.0	12.1	10.7	13.6	9.4	11.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	13.0							13.0	.0	12.0	12.6	19.5	6.8	13.1	7.7	9.5	7.2
TOT OBS	1933	3465	1413	141	3	0	6955		7.3	1485	135	1537	132	1597	156	1761	152
TOT PCT	27.8	49.8	20.3	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	5.6	4.8	.7	*	.0		11.2	7.7	8.5	6.8	14.6	14.2
NE	5.9	9.8	4.0	.2	.0		19.8	11.1	16.4	13.4	22.8	25.6
E	5.0	7.3	2.9	*	.0		15.1	10.7	12.3	15.6	15.7	16.6
SE	3.1	2.4	.2	.0	.0		5.7	7.2	7.3	7.7	3.4	4.8
S	4.2	2.5	.1	.0	.0		6.8	6.3	10.5	7.2	5.4	5.5
SW	4.9	2.8	.1	.0	.0		7.9	6.4	12.6	8.7	4.9	5.8
W	7.3	4.3	.1	.0	.0		11.7	6.2	14.1	13.8	11.0	8.5
NW	5.4	3.2	.1	.0	.0		8.8	6.2	6.0	8.4	10.7	9.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	13.0						13.0	.0	12.0	18.5	12.6	9.4
TOT OBS	3745	2558	568	14	0	6955		7.3	1620	1669	1753	1913
TOT PCT	54.4	37.2	8.2	.2	.0		100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1862-1979

AREA 0010 NICARAGUA SW COAST
9.5N 86.7W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-32	33-47	48+	MEAN	PCT FREQ	TOTAL OBS
00EST	10.0	19.3	59.1	11.8	.7	.1	.0	6.4	100.0	1620
06EST	16.5	15.2	49.2	15.8	1.3	.0	.0	6.3	100.0	1669
12EST	12.6	14.3	45.9	24.6	3.1	.1	.0	7.9	100.0	1753
18EST	9.4	14.4	47.5	25.8	2.9	.1	.0	8.3	100.0	1913
TOT	974	1029	2465	1413	141	3	0	7.3		6955
PCT	13.0	14.8	49.8	20.3	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	4.6	2.7	2.4	1.1		3.5
NE	10.1	4.6	4.1	.8		2.8
E	8.0	3.1	3.4	.9		2.8
SE	1.9	1.9	1.7	.4		4.1
S	1.9	1.7	2.4	1.1		4.5
SW	2.0	1.6	2.9	1.4		4.6
W	3.5	2.4	4.0	1.6		4.2
NW	2.8	2.1	2.7	1.0		3.9
VAR	.0	.0	.0	.0		.0
CALM	5.7	2.9	3.5	1.2		3.4
TOT OBS	2074	1164	1427	508	5173	3.5
TOT PCT	40.1	22.5	27.6	9.8	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	WH <5/8 ANY HGT	TOTAL OBS
N	.0	*	.1	.3	.6	.8	.1	*	.0	*	9.5	
NE	*	*	*	.3	.3	.8	.3	.1	.0	.1	16.1	
E	*	*	*	.3	.6	.3	.1	.1	*	.1	13.7	
SE	*	.0	.1	.2	.4	.3	.1	*	.0	*	4.2	
S	*	.0	.1	.2	.4	.8	.1	*	*	*	5.2	
SW	.0	*	*	.4	.6	.8	.3	*	*	*	6.0	
W	*	*	.0	.6	1.0	.8	.2	.1	*	.1	9.1	
NW	*	.0	.1	.4	.4	.3	.2	*	.0	*	7.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	*	.1	.5	.8	.4	.3	.1	.1	*	11.0	
TOT OBS	14	8	27	169	300	166	85	24	8	19	4353	5173
TOT PCT	.3	.2	.5	3.3	5.8	3.2	1.6	.5	.2	.4	84.1	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >5010	= OR >0
= OR >6500	.6	.6	.6	.6	.6	.6	.6	.6
= OR >5000	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
= OR >3500	2.3	2.6	2.7	2.7	2.7	2.7	2.7	2.7
= OR >2000	5.0	5.8	5.9	5.9	5.9	5.9	5.9	5.9
= OR >1000	9.8	11.5	11.6	11.6	11.6	11.6	11.6	11.6
= OR >600	12.4	14.6	14.9	14.9	14.9	14.9	14.9	14.9
= OR >300	12.8	15.1	15.4	15.4	15.4	15.5	15.5	15.5
= OR >150	12.9	15.2	15.5	15.6	15.6	15.7	15.7	15.7
= OR > 0	13.0	15.5	15.8	15.9	15.9	15.9	15.9	15.9
TOTAL	647	777	845	849	850	851	851	851

TOTAL NUMBER OF OBS: 5347 PCT FREQ WH <5/8: 84.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
29.5	18.7	16.2	12.0	7.9	4.5	4.3	3.4	3.7	.2	5605

APRIL

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1862-1979

AREA 0010 NICARAGUA SW COAST
9.6N 86.7W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OF NON-OCCURRENCE OF 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	*	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	TOT %	.0	*	*	*	*	.0	.0	.0	.0	*	.1	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
1<2	PCP	*	.0	*	.0	.0	*	.0	*	.0	.0	.1	
	NO PCP	*	.0	.0	.0	*	.0	*	.0	.0	*	.1	
	TOT %	*	.0	*	.0	*	*	*	*	.0	*	.2	
2<5	PCP	*	*	*	*	*	*	.0	*	.0	.0	.1	
	NO PCP	*	.1	*	*	.1	.1	.1	.1	.0	.1	.5	
	TOT %	*	.1	.1	.1	.1	.1	.1	.1	.0	.1	.6	
5<10	PCP	*	.1	*	*	*	*	.1	*	.0	*	.4	
	NO PCP	.8	1.5	1.3	.6	.5	.9	1.0	1.0	.0	1.8	9.5	
	TOT %	.8	1.5	1.4	.7	.5	.9	1.1	1.1	.0	1.9	9.9	
10+	PCP	.0	.1	.1	.1	.1	.1	.1	*	.0	*	.5	
	NO PCP	10.2	18.0	13.9	4.7	4.1	6.8	10.4	7.6	.0	10.9	84.7	
	TOT %	10.3	18.2	13.9	4.8	4.1	6.9	10.5	7.6	.0	10.9	89.2	
	TOT OBS												6194
	TOT PCT	11.2	19.6	15.4	5.5	4.6	8.0	11.7	8.7	.0	12.9	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	*	.0	.0	.0	.0	*	*	
	4-10	*	*	*	.0	*	.0	.0	*	.0		.1	
	11-21	*	*	*	*	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	*	*	*	.0	.0	*	.0	*	.1	
1/2<1	0-3	.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	*	*	
1<2	0-3	*	.0	.0	.0	.0	.0	.1	*	.0	*	.1	
	4-10	.0	.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 %	*	.0	*	.0	*	*	.1	*	.0	*	.2	
2<5	0-3	.0	.0	*	*	*	*	*	*	.0	.1	.3	
	4-10	*	*	*	.1	.1	.1	.1	.1	.0		.4	
	11-21	*	.1	*	*	.0	.1	*	.1	.0		.3	
	22+	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	TOT %	*	.1	.1	.1	.1	.1	.1	.2	.0	.1	1.1	
5<10	0-3	.2	.2	.1	.2	.1	.2	.2	.3	.0	1.4	3.3	
	4-10	.6	.6	.7	.4	.4	.6	.6	.6	.0		4.8	
	11-21	.1	.6	.5	.2	.1	.1	.2	.2	.0		1.9	
	22+	.0	.1	*	*	*	.0	.0	.0	.0		.2	
	TOT %	.8	1.7	1.4	.7	.6	.9	1.1	1.1	.0	1.4	10.2	
10+	0-3	2.1	1.6	1.4	1.0	1.4	1.3	2.2	1.6	.0	10.9	23.6	
	4-10	5.6	6.0	6.3	3.0	4.0	4.8	7.1	5.1	.0		44.3	
	11-21	2.1	7.4	5.5	.8	.6	.6	.9	.7	.0		18.5	
	22+	.1	1.1	.6	*	*	.1	*	.0	.0		2.0	
	TOT %	10.2	16.1	13.9	4.8	6.0	6.9	10.2	7.3	.0	10.9	88.3	
	TOT OBS												6484
	TOT PCT	11.1	20.0	15.4	5.6	6.8	7.9	11.5	8.6	.0	13.0	100.0	

PERIOD: (PRIMARY) 1951-1979
(OVER-ALL) 1807-1979

AREA 0010 NICARAGUA SW COAST
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,AM 24/8) AND OCCURRENCE OF VV <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	PM <5/8 ANY HGT	TOTAL OBS
00E03	.2	.1	.5	3.0	4.4	2.9	1.6	.6	.3	.6	14.1	45.9	1353
06E09	.5	.2	.6	2.5	5.6	2.1	2.2	.4	.2	.0	14.2	85.8	1283
12E15	.3	.2	.5	4.6	6.1	3.5	1.4	.1	.1	.6	17.4	82.6	1466
18E21	.1	.1	.4	2.5	6.1	3.7	1.2	.7	.3	.3	15.6	84.4	1452
TOT	15	10	26	178	309	170	87	35	11	21	654	4700	5554
PCT	.3	.2	.5	3.2	5.6	3.1	1.6	.5	.2	.4	15.4	84.6	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	.1	.2	1.1	9.2	89.4	1542
06E09	.2	.0	.1	1.2	10.7	87.8	1610
12E15	.1	.0	.3	1.3	10.9	87.3	1727
18E21	.2	.1	.2	.8	10.9	88.4	1786
TOT	11	7	16	73	691	5922	6715
PCT	.2	*	.2	1.1	10.3	88.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,AM 24/8),BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1010 <5	1000+ AND5+	NM <5/8 AND 5+	TOTAL OBS
00E03	.2	.8	4.4	10.5	85.2	1310
06E09	.5	1.3	4.6	10.8	84.6	1216
12E15	.2	.9	6.7	11.9	81.4	1416
18E21	.2	1.0	3.7	12.5	83.8	1405
TOT	15	54	240	619	4474	5347
PCT	.3	1.0	4.9	11.5	83.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.0	*	.0	.0	.0	2	*
90/94	.0	*	.1	.7	.8	.4	.1	.0	91	1.7
85/89	.0	.0	.1	.7	4.0	9.5	2.7	.4	977	18.2
80/84	.0	.0	*	.5	6.4	25.5	28.5	5.8	3612	67.4
75/79	.0	.0	.0	*	.2	1.7	6.5	3.9	662	12.3
70/74	.0	.0	.0	.0	.0	*	.2	.1	19	.4
TOTAL	0	1	7	77	665	1986	2056	551	5363	100.0
PCT	.0	*	.1	1.4	12.4	37.0	38.3	10.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	*	.0	.0	.0	*	*	.0	.0	.0
	.2	.3	.2	.1	.1	.1	.2	.2	.0	.2
	2.5	3.1	2.1	1.0	1.5	1.8	2.4	1.9	.0	2.0
	7.7	13.0	9.7	3.5	4.9	5.2	8.2	5.7	.0	9.2
	1.1	3.5	2.9	.5	.4	.5	.8	.8	.0	1.8
	*	.3	.0	*	*	.0	.0	.0	.0	*
	11.6	20.1	15.0	5.2	7.0	7.6	11.6	8.6	.0	13.3

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	97	88	87	83	78	76	73	82.8	1667
06E09	90	86	85	82	78	75	69	81.5	1732
12E15	89	86	84	81	77	75	71	81.2	1798
18E21	96	92	90	84	79	77	69	84.3	1962
TOT	97	90	88	82	78	75	69	82.5	7159

TABLE 16

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	1.1	12.1	44.5	34.8	7.5	78	1327
06E09	.0	.4	6.7	30.8	47.3	14.8	82	1352
12E15	.0	.6	8.9	30.3	46.3	14.0	81	1446
18E21	.0	4.2	23.0	42.9	24.9	4.9	75	1440
TOT	0	90	709	2064	2129	573	79	5565

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1862-1979

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TABLE 17

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

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	% FOG	NO FOG
17/19	.0	.0	.0	.0	*	.0	.0	1	.0	*
14/16	.0	.0	.0	.1	*	*	.0	6	.0	.1
11/13	.0	.0	*	.1	.1	.1	.0	22	*	.3
9/10	.0	.0	.1	.2	.2	.2	.1	41	.0	.7
7/8	.0	*	.2	.4	.6	.3	.1	96	*	1.7
6	.0	*	.1	.4	.5	.2	*	80	.0	1.4
5	.0	*	.3	1.1	.9	.3	.0	155	*	2.7
4	.0	.1	.6	1.5	1.6	.4	.0	239	.0	4.1
3	.0	.1	.6	2.0	1.4	.4	.0	284	.0	4.8
2	*	.2	1.4	3.6	2.6	.1	.0	479	*	8.1
1	.0	.2	1.5	4.1	2.3	.2	.0	486	*	8.3
0	.0	.1	2.3	9.0	2.9	*	.0	841	.1	14.2
-1	.0	.1	2.5	7.6	2.0	*	.0	717	.0	12.2
-2	.0	.2	2.5	10.3	.8	*	.0	808	.1	13.7
-3	.0	.1	2.1	4.7	.5	.0	.0	547	*	9.3
-4	.0	.1	2.1	5.1	.2	*	.0	441	.1	7.5
-5	.0	.1	1.7	2.8	.2	.0	.0	283	*	4.6
-6	.0	.1	1.5	1.0	*	*	.0	152	.0	2.6
-7/-8	.0	.2	1.2	.6	.0	.0	.0	119	.0	2.0
-9/-10	.0	.1	.4	.1	.0	.0	.0	37	.0	.6
-11/-13	*	.1	.2	*	.0	.0	.0	17	.0	.3
-14/-16	*	.0	*	.0	.0	.0	.0	2	.0	*
TOTAL	3	112	1244	3335	1010	140	15	5859	23	5836
PCT	.1	1.9	21.2	56.9	17.2	2.4	.3	100.0	.4	99.6

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

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

%

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	2.4	.6	.0	.0	.0	3.5
1-2	.7	4.1	.7	.0	.0	.0	5.4
3-4	.2	1.6	.7	.0	.0	.0	2.4
5-6	.0	.1	.1	.0	.0	.0	.4
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	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.0	8.1	2.9	.0	.0	.0	12.0

%E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	1.9	.0	.0	.0	.0	3.0
1-2	.4	4.6	1.5	.0	.0	.0	6.5
3-4	*	2.3	3.0	.1	.0	.0	5.4
5-6	.1	.4	2.3	.2	.0	.0	3.0
7	.0	.3	.8	.2	.0	.0	1.3
8-9	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.2	.1	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.8	9.4	8.2	.7	.0	.0	20.0

%

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.6	.1	.0	.0	.0	2.3
1-2	.5	3.0	1.0	.0	.0	.0	4.5
3-4	.2	1.6	1.9	.0	.0	.0	3.7
5-6	.0	.4	1.4	.2	.0	.0	2.0
7	.0	.1	.8	.0	.0	.0	.9
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	6.6	5.6	.3	.0	.0	13.9

%E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.8	.0	.0	.0	.0	1.4
1-2	.4	1.6	.4	.0	.0	.0	2.4
3-4	*	.6	.2	.0	.0	.0	1.0
5-6	.0	.4	.1	.0	.0	.0	.5
7	.0	.1	.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	1.1	3.8	.8	*	.0	.0	5.7

APRIL

PERIOD: (OVER-ALL) 1965-1979 AREA 0010 NICARAGUA SW COAST

TABLE 18 (CONT) 9.6N 86.7W

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.5	.0	.0	.0	.0	2.2
1-2	.5	3.0	.4	.0	.0	.0	3.8
3-4	.0	.7	.2	.0	.0	.0	.9
5-6	.1	.1	.1	.0	.0	.0	.2
7	.0	.0	.0	.1	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	5.3	.7	.1	.0	.0	7.4

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.7	.4	.0	.0	.0	2.1
1-2	.5	3.0	.4	.0	.0	.0	3.8
3-4	.0	1.1	.2	.0	.0	.0	1.3
5-6	.0	.1	.1	.0	.0	.0	.2
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	6.0	.6	.0	.0	.0	7.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.5	2.6	.1	.0	.0	.0	4.2
1-2	.3	4.0	.3	.0	.0	.0	4.6
3-4	.0	1.6	.1	.1	.0	.0	2.0
5-6	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.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	8.6	.5	.1	.0	.0	11.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.7	2.3	.1	.0	.0	.0	3.1	
1-2	.5	3.1	.2	.0	.0	.0	3.8	
3-4	.1	.6	.2	.0	.0	.0	.9	
5-6	.1	.0	.0	.0	.0	.0	.1	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.3	6.0	.6	.0	.0	.0	7.9	85.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	22.6	14.3	.4	.0	.0	.0	36.6	
1-2	4.9	25.9	4.7	.0	.0	.0	35.5	
3-4	.6	10.1	6.3	.3	.0	.0	17.3	
5-6	.3	1.5	4.2	.4	.0	.0	6.4	
7	.0	.5	1.9	.5	.0	.0	2.9	
8-9	.0	.0	.6	.0	.0	.0	.6	
10-11	.0	.0	.3	.1	.0	.0	.4	
12	.0	.0	.1	.0	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	27.9	52.4	18.5	1.3	.0	.0	100.0	1430

PERIOD: (OVER-ALL) 1949-1979 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	8.3	16.8	19.4	6.9	2.6	.6	.4	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	2458	3
6-7	.2	2.8	6.2	4.2	2.0	.7	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	797	4
8-9	.1	1.1	2.5	2.0	.9	.2	.2	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	338	4
10-11	.0	1.3	1.2	.5	.4	.2	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	192	4
12-13	.0	.0	1.1	.6	.3	*	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	102	5
>13	.0	*	.0	.7	.3	*	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	49	6
INDET	12.3	1.8	2.0	.0	.3	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	823	1
TOTAL	693	1230	1306	735	373	97	47	19	8	1	0	0	0	0	0	0	0	0	0	4759	3
PCT	20.9	25.8	27.4	15.4	8.8	2.0	1.0	.4	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1861-1979

AREA 0010 NICARAGUA SW COAST
9.5% 86.7%

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER 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 SNOW	DUST BLWG SNOW	NO SIG WEA
N	1.6	1.9	.5	.0	.0	.0	.0	4.1	2.8	3.4	.2	.0	2.4	.0		86.7
NE	2.4	1.1	.4	.0	.0	.0	.0	3.7	.9	2.6	.1	.0	1.4	.1		91.3
E	2.1	1.7	.1	.0	.0	.1		4.4	2.3	3.9	.3	.0	2.0	.0		87.5
SE	3.2	2.7	.1	.0	.0	.0	.2	6.2	4.9	7.0	.1	.0	.7	.0		81.4
S	3.9	2.3	1.4	.0	.0	.0	.0	7.5	4.9	5.2	.2	.0	.4	.0		82.1
SW	3.4	3.5	1.0	.0	.0	.0	.1	8.0	4.9	5.4	.3	.0	.5	.0		81.0
W	4.3	2.3	1.4	.0	.0	.0	.0	8.1	4.0	5.4	.1	.0	.7	.1		81.8
NW	4.7	1.4	.5	.0	.0	.0	.0	6.6	3.2	5.1	.2	.0	1.5	.2		83.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	1.0	.7	.3	.0	.0	.0	.0	1.6	1.9	6.0	.1	.0	1.5	.1		86.6
TOT PCT	3.0	2.0	.6	.0	.0	.0	*	5.4	3.4	4.6	.2	.0	1.1	.1		84.7
TOT OBS:	4770															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER 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 SNOW	DUST BLWG SNOW	NO SIG WEA
00Z03	2.1	1.0	.5	.0	.0	.0	.1	3.7	2.6	1.9	.1	.0	1.1	.1		90.6
06Z09	3.1	2.2	.9	.0	.0	.0	.1	6.3	2.9	13.6	.3	.0	1.5	.1		75.9
12Z15	4.1	3.5	.9	.0	.0	.0	.0	8.4	3.9	9.4	.3	.0	1.1	.1		81.9
18Z21	3.1	1.6	.7	.0	.0	.0	.1	5.3	4.0	.2	.1	.0	.4	.1		89.7
TOT PCT	3.1	2.1	.8	.0	.0	.0	*	6.0	3.3	5.0	.2	.0	1.1	.1		84.5
TOT OBS:	7048															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)				
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.3	4.4	1.0	*	*	.0		6.7	7.2	5.4	4.0	3.2	4.4	9.4	9.5	6.6	7.2
NE	1.3	5.7	3.6	.3	.0	.0		10.9	9.7	9.3	9.1	6.8	6.9	12.9	11.0	15.1	10.1
E	1.7	6.8	3.6	.3	*	.0		12.4	9.1	12.3	9.9	10.9	10.6	11.5	12.3	15.6	10.5
SE	1.4	5.5	1.1	.1	*	.0		8.1	7.2	9.4	12.4	10.0	6.9	6.4	9.0	6.7	9.6
S	2.2	7.1	1.5	*	.0	.0		10.8	6.8	14.9	20.6	12.6	10.9	8.0	7.5	9.0	8.4
SW	2.4	9.9	2.5	*	.0	.0		14.7	7.5	17.9	14.9	16.2	17.1	12.0	12.8	12.3	18.9
W	2.4	12.4	3.0	.1	.0	.0		17.9	7.6	16.6	17.5	18.4	25.2	19.1	18.1	16.3	20.1
NW	1.5	4.2	.9	*	.0	.0		7.6	6.7	6.1	7.2	6.4	7.5	9.2	11.7	8.9	7.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.4							10.4	.0	9.1	9.1	15.6	9.4	11.2	8.1	4.6	7.4
TOT OBS	1900	4340	1308	57	3	0	7608		6.9	1634	193	1710	181	1679	236	1835	190
TOT PCT	25.0	57.0	17.2	.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	3.5	3.0	.1	*	.0		6.7	7.2	5.3	3.4	9.4	8.5
NE	3.6	5.4	1.2	*	.0		10.9	9.7	8.9	6.8	12.6	14.7
E	4.9	6.3	1.2	*	.0		12.4	9.1	11.7	10.4	11.6	15.1
SE	4.3	3.5	.2	*	.0		8.1	7.2	8.7	9.7	7.0	7.0
S	6.2	4.4	.2	.0	.0		10.8	6.8	15.4	12.5	7.9	8.0
SW	7.3	7.0	.4	*	.0		14.7	7.5	17.9	16.3	12.1	13.0
W	8.7	8.7	.4	*	.0		17.9	7.6	16.7	19.1	19.0	16.7
NW	4.4	3.2	.2	*	.0		7.8	6.7	6.2	6.5	9.5	8.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	10.8						10.8	.0	9.1	15.0	10.8	8.4
TOT OBS	4116	3178	313	11	0	7608		6.9	1777	1891	1915	2025
TOT PCT	54.1	41.8	4.5	.1	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1957-1979
(OVER-ALL) 1961-1979

AREA CODE NICARAGUA SW COAST
9.5N 86.7W

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
0700	4.1	14.7	60.2	15.5	.5	.1	.0	6.6	100.0	1777
0800	15.0	13.7	57.6	13.3	.4	.0	.0	6.2	100.0	1891
1315	10.8	14.2	59.5	14.5	.9	.0	.0	7.2	100.0	1915
1621	6.4	14.0	55.2	21.1	1.1	.1	.0	7.6	100.0	2025
TOT	823	1777	4340	1306	57	3	0	6.9		7608
PCT	10.8	14.2	57.0	17.2	.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 & OVCST	TOTAL OBS	MEAN CLOUD COVER
N	1.4	1.5	2.5	1.2		4.6
NE	3.0	2.6	4.7	1.4		4.5
E	3.1	2.7	4.4	2.4		4.5
SE	1.2	1.6	3.5	1.6		5.3
S	1.4	2.2	4.6	2.5		5.5
SW	1.4	2.5	6.4	4.0		5.9
W	2.3	3.1	8.0	3.9		5.5
NW	1.3	1.6	3.4	1.6		5.2
VAR	.0	.0	.0	.0		.0
CALM	2.9	2.1	4.1	1.4		4.5
TOT OBS	1009	1081	2167	1104	5556	4.1
TOT PCT	18.2	19.5	47.4	14.9	100.0	

TABLE 6

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

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	4M <5/8 ANY HGT	TOTAL OBS
.1	.1	.1	.5	.6	.2	.1	*	.1	.0	5.1	
*	.1	.1	.4	1.0	.4	.1	*	.1	*	9.1	
*	.1	.2	.7	1.1	.4	.2	.1	.1	*	9.3	
*	.1	.2	.6	.4	.5	.1	*	*	*	5.3	
.1	.1	.2	1.2	1.3	.6	.2	.1	*	*	7.0	
.2	.1	.4	1.8	2.3	.8	.2	*	*	*	8.5	
.2	.1	.3	1.0	2.7	.9	.2	.1	*	*	10.8	
*	*	.2	.7	1.0	.3	.1	*	.1	*	5.2	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
*	*	.1	.7	1.2	.4	.1	*	.0	*	8.4	
41	37	105	469	669	248	85	29	24	10	3810	5556
.7	.7	1.9	9.0	17.0	4.5	1.5	.5	.4	.2	68.6	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) >10	>5	>2	>1	>1/2	>1/4	>5/16	>0
>OR >4500	.6	.7	.7	.7	.7	.7	.7	.7
>OR >3000	.9	1.2	1.2	1.2	1.2	1.2	1.2	1.2
>OR >1500		2.7	2.7	2.7	2.7	2.7	2.7	2.7
>OR >1000		7.0	7.1	7.1	7.1	7.1	7.1	7.1
>OR >1000	.7	16.0	19.1	19.1	19.1	19.1	19.1	19.1
>OR >500	23.6	27.4	27.9	27.9	28.0	28.0	28.0	28.1
>OR >300	24.7	29.1	29.8	29.9	30.0	30.0	30.0	30.0
>OR >150	25.1	29.7	30.4	30.5	30.6	30.6	30.6	30.6
>OR > 0	25.4	30.3	31.0	31.2	31.3	31.3	31.3	31.3
TOTAL	1406	1744	1749	1796	1804	1804	1805	1806

TOTAL NUMBER OF OBS: 5761 PCT FREQ 4M <5/8: 68.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
4.8	12.5	17.3	15.4	13.1	8.3	6.7	6.3	9.1	.4	6108

PERIOD: (PRIMARY) 1953-1974
(OVER-ALL) 1961-1974

AREA 0010 NICARAGUA SW COAST
9.5N 86.7W

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	*	*	.0	.0	*	
	NO PCP	.0	*	*	.0	.0	.1	.0	.1	.0	.0	*	
	TOT %	.1	*	*	.0	.0	.0	*	*	.0	.0	*	
1/2<1	PCP	*	.1	*	.0	*	.0	*	*	.0	.0	.1	
	NO PCP	.0	*	*	*	.0	.1	.0	*	.0	.0	.1	
	TOT %	*	.1	.1	*	*	.0	*	*	.0	.0	.2	
1<2	PCP	*	.1	.0	*	*	*	*	*	.0	.0	.2	
	NO PCP	*	.0	*	*	*	*	*	*	.0	*	.2	
	TOT %	*	.0	*	.1	*	*	.1	*	.0	*	.3	
2<5	PCP	.1	*	.1	.1	*	.1	.2	.1	.0	.0	.7	
	NO PCP	.1	.1	.1	*	.1	.1	.1	*	.0	.0	.6	
	TOT %	.1	.1	.1	.1	.1	.2	.3	.1	.0	.0	1.2	
5<10	PCP	*	.1	.3	.2	.3	.2	.5	.2	.0	.1	2.1	
	NO PCP	.6	.7	.9	.7	.9	1.1	1.3	.5	.0	.4	7.2	
	TOT %	.6	.9	1.1	.8	1.1	1.4	1.9	.7	.0	.5	9.3	
10+	PCP	.2	.2	.2	.2	.4	.6	.6	.2	.0	.1	2.7	
	NO PCP	6.1	10.1	11.1	7.7	9.1	12.1	14.8	6.6	.0	4.7	66.2	
	TOT %	6.2	10.3	11.3	8.9	9.5	12.7	15.4	6.7	.0	4.9	88.9	
	TOT OBS												6747
	TOT PCT	6.8	11.2	12.6	7.9	10.9	14.4	17.7	7.7	.0	10.8	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	*	*	.0	.0	.0	*	.0	.1	.1	
	4-10	.0	*	*	.0	.0	*	*	*	.0		.1	
	11-21	.0	*	*	.0	.0	*	*	*	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	*	*	.0	*	*	*	.0	.0	.1	
1/2<1	0-3	.0	*	*	.0	.0	.0	.0	*	.0	.0	*	
	4-10	*	*	*	*	.0	.0	*	*	.0		.1	
	11-21	.0	.0	*	.0	*	.0	*	*	.0		.1	
	22+	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	TOT %	*	*	*	*	.0	*	*	*	.1	.0	.2	
1<2	0-3	*	.0	.0	.0	*	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	*	*	*	*	*	*	.0		.2	
	11-21	.0	.0	*	*	*	*	*	*	.0		.1	
	22+	*	.0	.0	.0	.0	.0	*	.0	.0		*	
	TOT %	*	.0	*	.1	*	*	.1	.1	.0	.1	.4	
2<5	0-3	*	*	.1	*	*	*	.1	*	.0	*	.3	
	4-10	.1	.1	.1	.1	.1	.2	.1	.1	.0		.8	
	11-21	.1	*	*	*	*	*	.1	*	.0		.4	
	22+	.0	*	.0	*	*	*	.0	.0	.0		.1	
	TOT %	.2	.1	.2	.1	.2	.3	.3	.1	.0	*	1.4	
5<10	0-3	.1	.1	.2	.1	.2	.3	.2	.1	.0	.9	2.1	
	4-10	.3	.6	.6	.6	.7	.6	1.1	.5	.0		5.0	
	11-21	*	.3	.3	.1	.3	.6	.5	.2	.0		2.1	
	22+	*	*	*	.0	.0	*	.0	.0	.0		.1	
	TOT %	.4	.8	1.2	.8	1.1	1.5	1.9	.8	.0	.9	9.3	
10+	0-3	1.2	1.1	1.5	1.3	2.0	1.8	2.0	1.3	.0	9.6	22.0	
	4-10	4.0	5.5	6.1	4.6	6.1	8.7	10.4	4.6	.0		50.5	
	11-21	1.0	3.4	3.6	.9	1.2	2.1	2.5	.7	.0		15.2	
	22+	.1	.3	.2	.1	*	*	*	*	.0		.6	
	TOT %	6.2	10.3	11.3	6.9	9.3	12.6	15.2	6.6	.0	9.6	88.3	
	TOT OBS												7015
	TOT PCT	6.8	11.2	12.7	7.9	10.7	14.4	17.7	7.7	.0	10.8	100.0	

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1861-1979

AREA 0010 NICARAGUA SW COAST
9.5N 86.7W

TABLE 10

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

HOUR (GMT)	0TO 149	150 249	300 499	500 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	AM <5/8 ANY HGT	TOTAL OBS
00E03	.5	.4	1.4	8.1	10.4	3.6	1.6	.5	.3	.5	27.2	72.8	1530
06E09	1.4	.7	1.9	8.0	11.3	3.8	1.7	.2	.4	.1	29.5	70.5	1388
12E15	.5	.8	2.4	9.6	13.5	4.2	1.3	.6	.3	.2	33.5	66.5	1557
18E21	.3	.6	1.4	8.7	11.5	5.4	1.4	.7	.7	.1	31.3	68.7	1500
TOT	41	77	113	535	698	255	89	71	26	11	1817	4158	5975
PCT	.7	.6	1.9	8.6	11.7	4.3	1.5	.6	.4	.2	30.4	69.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.1	.2	.3	.6	7.7	90.9	1751
06E09	.1	.1	.2	1.9	11.4	86.1	1811
12E15	.2	.4	.5	1.7	9.6	87.4	1871
18E21	.2	.2	.4	1.8	7.9	89.4	1861
TOT	10	16	30	114	674	6452	7296
PCT	.1	.2	.4	1.6	9.2	88.4	100.0

TABLE 12

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

HOUR (GMT)	<150 <FEYD	<600 <3	<1000 <5	1000+ AND5+	AM <5/8 AND 5+	TOTAL OBS
00E03	.5	2.4	10.6	17.3	71.8	1469
06E09	1.6	4.4	13.3	17.9	68.7	1327
12E15	.4	4.0	14.2	20.4	65.2	1505
18E21	.3	2.9	12.3	16.9	67.8	1460
TOT	43	197	726	1093	3939	5761
PCT	.7	3.4	12.7	19.0	68.4	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
95/99	.0	*	.0	.0	*	.0	.0	.0	2	*
90/94	.0	.0	.1	.2	.4	.9	.1	*	87	1.5
85/89	.0	.0	*	.2	3.2	9.6	3.0	.7	991	16.7
80/84	.0	.1	.3	.2	2.4	22.0	37.4	7.2	4136	69.6
75/79	.0	.0	.0	.0	*	.7	5.2	5.9	702	11.8
70/74	.0	.0	.0	.0	.0	*	.1	.3	22	.4
TOTAL	2	3	6	31	383	1934	2751	832	5940	100.0
PCT	.0	*	.1	.5	6.4	32.6	46.3	14.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	*	*	.0	.0	.0	.0	.0
	.1	.2	.2	.1	.1	.1	.2	.2	.0	.2
	1.6	2.5	2.6	1.2	1.3	1.6	2.6	1.5	.0	1.6
	4.7	7.5	8.1	5.5	7.8	10.5	12.2	5.1	.0	8.3
	.6	1.0	1.2	.9	1.6	1.9	2.4	.8	.0	1.3
	*	*	*	*	.1	.1	.1	.1	.0	*
	7.0	11.1	12.4	7.8	11.0	14.2	17.5	7.7	.0	11.4

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	94	89	87	83	79	76	71	82.3	1844
06E09	90	88	84	82	79	75	70	81.3	1960
12E15	99	96	89	87	78	75	72	81.2	1971
18E21	95	92	89	84	79	77	72	84.0	2064
TOT	95	93	87	82	79	75	70	82.3	7839

TABLE 16

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	4.7	40.7	45.1	9.6	80	1524
06E09	.0	.0	2.9	21.9	57.7	17.6	84	1516
12E15	.0	.4	3.3	25.2	51.6	19.5	83	1568
18E21	.0	1.7	15.6	42.9	32.1	9.7	78	1549
TOT	0	38	349	2019	2855	876	81	6187

PERIOD: (PRIMARY) 1954-1976
(OVER-ALL) 1961-1976

AREA CODE NICARAGUA SW COAST
9.5N 86.7W

TABLE 17

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

AIR-SEA	63	73	77	81	85	89	>92	TOT	* FOG	** FOG
TMP DIF	72	76	80	84	88	92				
14/16	.0	.0	.0	.0	.0	*		3	.0	*
11/13	.0	.0	.0	*	*	*	.1	11	.1	.2
8/10	.0	.0	*	*	.1	.1	*	26	.1	.4
7/8	.0	.0	*	.1	.1	*	*	41	.0	.6
6	.0	.0	*	.1	.2	.1	*	62	.0	1.0
5	.0	.0	.1	.1	.2	.1	*	115	*	1.8
4	.0	.0	.1	.2	.2	.1	*	144	*	2.2
3	.0	.0	.1	.2	.2	.1	*	196	*	3.0
2	.0	.0	.2	.3	.3	.1	*	362	*	5.6
1	.0	*	.2	.4	.3	.1	*	421	.2	6.6
0	.0	*	.2	.5	.4	.1	*	826	*	12.8
-1/-2	.0	*	.3	.6	.4	.1	*	869	*	13.4
-3/-4	.0	*	.3	.8	.5	.1	*	1011	*	15.6
-5/-6	.0	*	.3	.8	.5	.1	*	730	*	11.3
-7/-8	.0	*	.3	.6	.3	.1	*	429	*	6.7
-9/-10	.0	*	.2	.4	.2	.1	*	428	*	6.6
-11/-12	.0	*	.2	.3	.2	*	*	242	*	3.8
-13/-14	.0	*	.1	.2	.1	*	*	220	*	3.4
-15/-16	.0	*	.1	.1	.1	*	*	86	*	1.3
-17/-18	.0	*	*	.1	*	*	*	25	*	.4
TOTAL	.0	*	1.3	3.8	2.5	.6	.1	1	.3	*
		106		3825		342		6455		
PCT	.1	1.6	21.1	59.2	15.5	2.2	.2	100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

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

%

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
CL							
1-2							
3-4							
5-6							
7							
8-9							
10-11							
12							
13-16							
17-19							
20-22							
23-25							
26-32							
33-40							
41-48							
49-60							
61-70							
71-96							
97+							
TOT PCT							

SE

1-3	4-10	11-21	22-33	34-47	48+	PCT

PERIOD: (OVER-ALL) 1955-1979 AREA CODE NICARAGUA SW COAST 9.5N 86.7W

TABLE 1e (CONT)

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

	S							Sw						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	1.2	.1	.0	.0	.0	2.2	.9	1.8	.0	.0	.0	.0	2.7
1-2	.5	4.1	.4	.0	.0	.0	5.0	.4	6.0	1.2	.0	.0	.0	7.5
3-4	.1	1.4	.4	.0	.0	.0	2.0	.1	3.1	1.5	.0	.0	.0	4.7
5-6	.0	.1	.1	.0	.0	.0	.2	.0	.6	.0	.0	.0	.0	1.0
7	.0	.1	.1	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2
8-9	.0	.1	.1	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.1	.1	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	7.1	1.7	.0	.0	.0	10.5	1.4	11.4	4.1	.0	.0	.0	17.0

														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
<1	1.2	2.6	.2	.0	.0	.0	4.0	.5	1.6	.1	.0	.0	.0	2.4
1-2	.4	7.3	1.2	.0	.0	.0	8.8	.3	7.6	.4	.0	.0	.0	3.7
3-4	.1	3.2	1.2	.0	.0	.0	5.6	.2	1.1	.4	.0	.0	.0	1.7
5-6	.0	.6	1.3	.0	.0	.0	1.9	.1	.2	.2	.0	.0	.0	.4
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	13.7	4.0	.0	.0	.0	20.0	1.0	4.1	1.2	.0	.0	.0	6.3	86.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	17.2	11.3	.3	.0	.0	.0	28.8	
1-2	9.6	24.7	5.7	.0	.0	.0	39.9	
3-4	.6	12.9	8.3	.1	.0	.0	21.9	
5-6	.2	2.5	5.1	.1	.0	.0	7.9	
7	.0	.2	.6	.1	.0	.0	1.0	
8-9	.0	.0	.3	.0	.0	.0	.4	
10-11	.0	.0	.1	.0	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	27.6	51.5	20.4	.3	.0	.0	100.0	3543

PERIOD: (OVER-ALL) 1955-1979

TABLE 1f

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	6.2	19.1	16.7	8.6	2.2	.5	.3	•	.0	•										2716	1
6-7	.2	2.6	7.0	5.6	1.2	.6	.2	•	.0	•										996	2
8-9	.1	1.0	3.3	2.1	.4	.2	.1	•	.0	•										454	2
10-11	.0	.2	.5	.3	.1	.1	.0	•	.0	•										107	3
12-13	.0	.0	.1	.1	.0	.0	.0	•	.0	•										115	5
>13	.0	.0	.0	.0	.0	.0	.0	•	.0	•										55	6
INDEFT	6.7	1.9	2.2	.6	.2	.0	.0	•	.0	•										756	1
TOTAL	803	1350	1672	819	350	202	55	25	7	2										5294	3
PCT	15.2	25.5	31.6	15.4	6.6	3.8	1.0	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1872-1979

AREA RDIO NICARAGUA SW COAST
9.5N 86.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.9	2.5	1.4	.0	.0	.0	.0	6.9	4.6	4.4	.0	.0	.5	.0	83.6
NE	3.4	1.7	.6	.0	.0	.0	.0	5.6	2.9	2.2	.0	*	1.3	.0	88.7
E	1.6	2.4	1.1	.0	.0	.0	.0	4.9	3.1	4.4	.1	.1	.4	.1	86.8
SE	5.7	3.0	2.2	.2	.0	.0	.0	11.3	5.7	7.8	*	.0	.5	.0	74.5
S	6.3	5.0	2.6	.0	.0	.0	.0	13.2	7.8	5.1	*	.0	.3	.0	74.0
SW	7.2	4.1	1.9	.1	.0	.0	.0	13.6	5.9	4.5	.0	.0	.3	.0	76.9
W	5.5	2.6	2.2	.0	.0	.0	.0	10.4	6.3	4.9	.0	.0	.2	.0	78.4
NW	4.0	2.3	2.0	.0	.0	.0	.0	8.3	6.0	4.2	.0	.0	.1	.0	82.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3	2.1	.8	.0	.0	.0	.0	4.2	2.1	5.0	.2	.0	.2	.2	98.0
TOT PCT	4.7	3.1	1.8	.0	.0	.0	.0	9.3	5.2	4.7	*	*	.4	*	80.7
TOT OBS.	4275														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00E03	3.4	2.6	1.3	.0	.0	.0	.0	7.3	4.8	1.7	.1	.0	.0	.0	85.7
06E09	5.7	3.7	2.1	.0	.0	.0	.0	10.9	6.0	13.9	.0	.1	.2	.1	71.7
12E15	6.0	3.6	2.1	.0	.0	.0	.0	11.8	7.2	3.6	.1	.0	.3	.0	77.2
18E21	3.6	2.7	1.3	.0	.0	.0	.0	7.5	4.6	.4	.0	.0	.4	.1	87.2
TOT PCT	4.7	3.1	1.7	.0	.0	.0	.0	9.4	5.2	4.9	*	*	.4	*	80.5
TOT OBS:	6453														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.9	3.5	.9	.1	.0	.0		5.3	7.3	3.4	2.5	3.6	5.7	6.6	5.3	7.4	9.5
NE	1.0	4.6	3.2	.3	*	.0		9.4	10.0	5.8	6.7	6.5	8.3	9.7	11.3	12.5	8.9
E	1.3	5.9	3.4	.2	*	.0		10.9	9.5	10.7	8.3	10.7	8.6	10.1	9.8	13.0	8.5
SE	.9	3.0	1.2	*	.0	.0		7.2	7.5	8.3	10.6	9.8	7.0	5.0	7.2	5.7	6.2
S	1.3	7.1	2.0	.1	.0	.0		10.5	7.9	13.0	14.3	11.8	7.9	8.4	8.7	9.3	8.6
SW	2.0	11.1	4.1	.1	.0	.0		17.2	8.5	17.9	21.5	17.8	25.0	17.5	17.2	14.8	16.5
W	2.2	14.4	6.0	.1	.0	.0		22.7	8.8	23.6	21.8	23.3	18.0	25.1	23.0	19.5	22.8
NW	1.0	4.7	1.8	.1	.0	.0		8.7	8.4	6.7	8.6	6.5	11.9	9.8	11.6	10.3	11.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.1							8.1	.0	7.6	7.7	10.1	9.6	7.6	5.9	7.4	7.1
TOT OBS	1292	3995	1586	72	1	0	6944		7.9	1486	142	1510	136	1610	204	1674	182
TOT PCT	18.6	57.5	22.8	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
	.6	2.4	.2	.0	.0		5.3	7.3	3.3	3.6	6.5	7.6
	2.9	5.5	1.1	*	.0		9.4	10.0	8.6	6.6	9.9	12.1
	4.0	5.8	1.1	*	.0		10.9	9.5	10.3	10.6	10.1	12.6
	3.8	3.1	.2	*	.0		7.2	7.5	8.5	9.5	5.3	5.8
S	4.9	5.1	.5	*	.0		10.5	7.9	13.1	11.5	8.5	9.2
SW	6.6	9.5	.4	*	.0		17.2	8.5	18.2	18.4	17.5	15.0
W	8.3	13.5	1.0	*	.0		22.7	8.8	23.5	22.8	24.9	19.9
NW	3.5	4.8	.3	*	.0		8.7	8.4	8.9	7.0	10.0	10.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	8.1						8.1	.0	7.6	10.0	7.4	7.4
TOT OBS	3131	3439	363	11	0	6944		7.9	1628	1696	1814	1856
TOT PCT	45.1	49.5	5.2	.2	.0		100.0		100.0	100.0	100.0	100.0

JUNE

PERIOD: (PRIMARY) 1957-1979
(OVER-ALL) 1957-1974

AREA 0010 NICARAGUA SW COAST
9.5N 86.7W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00E03	7.6	9.7	54.3	28.4	.4	.1	.0	7.9	100.0	1628
06E09	10.0	10.4	58.6	20.8	.4	.0	.0	7.6	100.0	1646
12E15	7.4	10.1	56.8	22.6	1.0	.0	.0	8.0	100.0	1814
18E21	7.4	11.7	56.2	24.0	1.7	.0	.0	8.2	100.0	1856
TOT	561	731	3995	1584	72	1	0	7.9		6944
PCT	8.1	10.5	57.5	22.8	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	.3	1.2	2.4	1.1		5.7
NE	1.7	2.0	5.0	1.8		5.3
E	1.5	2.5	5.7	2.0		5.2
SE	.5	.7	2.9	2.2		6.1
S	.5	1.4	4.2	4.0		6.3
SW	.8	2.0	6.1	6.1		6.3
W	1.4	3.5	11.0	7.7		6.1
NW	.4	1.4	3.9	2.3		6.0
VAR	.0	.0	.0	.0		.0
CALM	1.0	1.7	3.0	1.7		5.3
TOT OBS	461	939	2407	1462	5129	5.9
TOT PCT	7.9	16.4	46.9	28.5	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	.1	*	.1	.6	.5	.3	.1	.1	*	*	3.4	
NE	*	*	.2	1.0	.9	.5	.2	*	.1	*	7.1	
E	.1	*	.3	.9	1.4	.4	.1	.1	.1	*	7.9	
SE	*	.1	.4	.7	1.2	.4	.2	*	.1	.0	3.5	
S	.1	.1	.4	1.4	1.9	.5	.2	.1	*	.1	5.3	
SW	.2	.2	.8	2.8	2.9	1.1	.3	.1	.1	.1	8.5	
W	.2	.1	1.0	3.3	4.2	1.4	.6	*	.2	*	12.6	
NW	*	.1	.2	1.0	1.3	.5	.2	*	*	*	4.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	*	.2	.8	1.0	.3	.2	.1	*	.1	5.6	
TOT OBS	41	33	190	635	776	280	106	28	30	17	2993	5129
TOT PCT	.8	.6	3.7	12.4	15.1	5.5	2.1	.5	.6	.3	58.4	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >500YD	= OR >0
= OR >6500	.9	.9	.9	.9	.9	.9	.9	.9
= OR >5000	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5
= OR >3500	3.1	3.5	3.5	3.5	3.5	3.5	3.5	3.5
= OR >2000	7.6	8.6	8.9	9.0	9.0	9.0	9.0	9.0
= OR >1000	20.1	23.5	23.8	23.9	24.0	24.0	24.0	24.0
= OR >600	29.4	35.3	36.0	36.1	36.2	36.2	36.2	36.2
= OR >300	31.4	38.5	39.4	39.7	39.8	39.8	39.8	39.9
= OR >150	31.5	38.9	40.0	40.3	40.4	40.4	40.5	40.5
= OR > 0	32.6	39.6	40.7	41.1	41.2	41.2	41.3	41.3
TOTAL	1649	2092	2146	2166	2171	2172	2174	2176

TOTAL NUMBER OF OBS: 5270 PCT FREQ NM <5/8: 58.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
3.6	8.7	15.5	16.1	14.6	10.2	10.5	7.5	12.9	.5	5629

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1872-1979

AREA 0010 NICARAGUA SW COAST
9.5N 86.7W

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	.0	.0	.0	.0	*	*	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	*	.0	*	*	.0	*	*	
	TOT %	*	.0	.0	.0	*	*	*	*	.0	*	.1	
1/2<1	PCP	*	*	*	*	.0	*	*	*	.0	.0	.1	
	NO PCP	.0	*	.0	.0	.0	.0	*	.0	.0	.0	*	
	TOT %	*	*	*	*	.0	*	*	*	.0	.0	.1	
1<2	PCP	*	*	*	*	.1	.1	.1	*	.0	*	.4	
	NO PCP	.0	.0	.0	.0	.0	*	*	*	.0	.0	.1	
	TOT %	*	*	*	*	.1	.1	.1	*	.0	*	.4	
2<5	PCP	.0	*	.1	*	.2	.3	.3	.1	.0	*	1.1	
	NO PCP	*	*	.1	.1	.1	.3	.2	*	.0	*	.9	
	TOT %	*	*	.1	.1	.3	.6	.5	.1	.0	.1	1.9	
5<10	PCP	.1	.2	.2	.4	.5	.8	1.0	.3	.0	.1	3.5	
	NO PCP	.4	.7	.7	.6	.9	1.7	2.0	.6	.0	.3	7.8	
	TOT %	.5	.9	.9	.9	1.4	2.5	3.0	.8	.0	.4	11.3	
10+	PCP	.2	.3	.3	.4	.6	1.0	1.0	.3	.0	.2	4.1	
	NO PCP	4.4	8.4	9.9	5.6	7.9	13.1	18.7	7.1	.0	6.9	82.0	
	TOT %	4.6	8.7	10.1	5.9	8.5	14.1	19.6	7.4	.0	7.0	86.0	
	TOT OBS												6261
	TOT PCT	5.1	9.6	11.2	7.0	10.3	17.4	23.3	9.4	.0	7.6	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	.0	.0	.0	.0	*	*	*	*	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	*	*	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.0	.0	.0	*	*	.1	*	.0	*	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	*	.0	.0	.0	*	*	*	.0		.1	
	11-21	.0	.0	*	*	.0	*	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	*	*	.0	*	*	*	.0	.0	.2	
1<2	0-3	.0	.0	.0	.0	.0	*	*	*	.0	*	.1	
	4-10	*	*	*	*	.1	.1	.1	*	.0		.4	
	11-21	.0	.0	.0	.0	*	*	.1	*	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	*	*	.1	.1	.1	*	.0	*	.6	
2<5	0-3	.0	.0	*	.0	*	*	.1	*	.0	.1	.2	
	4-10	*	*	.1	.1	.2	.4	.3	.1	.0		1.2	
	11-21	.0	.0	.1	*	.1	.2	.2	.1	.0		.7	
	22+	.0	.0	*	.0	.0	*	*	.0	.0		.1	
	TOT %	*	*	.2	.1	.3	.7	.6	.2	.0	.1	2.2	
5<10	0-3	.1	.1	.1	.1	.1	.2	.1	.1	.0	.4	1.3	
	4-10	.4	.4	.4	.6	.8	1.5	1.6	.4	.0		6.1	
	11-21	.1	.3	.3	.3	.5	.8	1.2	.3	.0		3.7	
	22+	.0	*	*	*	*	*	.1	*	.0		.2	
	TOT %	.5	.9	.9	1.0	1.4	2.5	2.9	.8	.0	.4	11.3	
10+	0-3	.7	.9	1.1	.8	1.1	1.7	1.9	.8	.0	7.2	16.1	
	4-10	3.0	4.4	5.4	4.2	6.0	9.1	12.5	5.1	.0		49.6	
	11-21	.9	3.1	3.2	.9	1.4	3.2	4.8	1.5	.0		19.0	
	22+	*	.3	.2	*	.0	*	.1	.1	.0		.8	
	TOT %	4.6	8.6	9.9	5.9	8.5	14.0	19.3	7.5	.0	7.2	85.5	
	TOT OBS												6511
	TOT PCT	5.2	9.6	11.0	7.1	10.3	17.4	23.1	8.6	.0	7.8	100.0	

PERIOD: (PRIMARY) 1953-1976
(OVER-ALL) 1872-1979

AREA 0010 NICARAGUA SW COAST
9.5N 86.7W

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	MH <5/8 ANY HGT	TOTAL OBS
00E03	.7	.4	3.4	9.3	14.5	4.3	1.9	.7	.5	.5	36.3	63.7	1397
06E09	1.2	.7	3.3	12.2	15.8	5.1	2.3	.2	.7	.5	42.0	58.0	1206
12E15	.9	.8	3.9	14.4	13.7	6.1	1.6	.4	.5	.1	42.4	57.6	1483
18E21	.4	.4	3.5	11.2	14.3	5.5	2.1	.6	.6	.4	39.0	61.0	1393
TOT	44	33	194	646	796	288	108	26	30	19	2186	3293	5479
PCT	.8	.6	3.5	11.8	14.5	5.3	2.0	.5	.5	.3	39.9	60.1	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	.2	.3	1.0	2.0	9.2	87.4	3600
06E09	.2	.2	.3	2.5	12.9	83.9	1581
12E15	.1	.2	.5	2.6	12.9	83.7	1778
18E21	.3	.2	.4	1.7	10.1	87.3	1733
TOT	13	13	37	148	755	5726	6692
PCT	.2	.2	.6	2.2	11.3	85.6	100.0

TABLE 12

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

HOUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND5+	MH <5/8 AND 5+	TOTAL OBS
00E03	.7	4.8	15.0	22.9	62.1	1383
06E09	1.2	5.6	19.2	25.3	55.5	1185
12E15	1.0	5.9	21.4	22.3	56.2	1442
18E21	.5	4.5	16.3	24.0	59.8	1340
TOT	45	273	949	1240	3081	5270
PCT	.9	5.2	18.0	23.5	58.5	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	*	.1	.6	.1	*	*	53	1.0
85/89	.0	.0	.0	.1	1.5	5.7	1.9	.2	513	9.4
80/84	.0	.0	*	*	1.2	18.2	38.6	8.5	3622	66.5
75/79	.0	.0	.0	.0	*	1.0	10.6	10.9	1222	22.4
70/74	.0	.0	.0	.0	.0	*	*	.6	34	.6
TOTAL	0	0	2	11	161	1359	2788	1103	5444	100.0
PCT	.0	.0	*	.2	3.3	25.0	51.2	20.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	*	.2	.1	.1	.1	.2	.1	.0	.1
.8	1.6	1.3	.6	.7	1.0	1.7	1.0	.0	.2
3.4	7.1	8.0	4.3	6.3	10.2	15.9	5.8	.0	5.6
.7	.9	1.3	1.5	3.3	5.8	6.0	1.5	.0	1.4
*	*	*	.1	*	.2	.2	*	.0	*
5.0	9.6	10.9	6.6	10.3	17.2	23.9	8.4	.0	8.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	92	87	85	82	77	75	73	81.5	1670
06E09	84	85	84	80	77	74	72	80.3	1689
12E15	90	9	89	80	77	74	70	80.3	1644
18E21	95		88	81	78	76	73	83.0	1681
TOT	95	9	86	81	77	75	70	81.3	7084

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	1.7	29.5	52.9	15.9	83	1394
06E09	.0	.0	1.1	15.2	57.8	25.9	85	1333
12E15	.0	.1	1.0	14.6	56.9	27.4	86	1495
18E21	.0	.9	9.2	41.6	37.2	11.1	79	1388
TOT	0	13	182	1409	2875	1131	83	5610

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1872-1979

AREA 0010 NICARAGUA SW COAST
9.5N 86.7W

TABLE 17

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

AIR-SEA DIF	69 OR BELOW	73	77	81	85	89	>92	TOT	% FOG	NO FOG
	72	76	80	84	88	92				
11/13	.0	.0	.0	*	.1	.1	*	13	.0	.2
9/10	.0	.0	.0	.0	.1	.1	.1	12	.0	.2
7/8	.0	.0	.0	.2	.4	.2	*	46	.0	.8
6	.0	.0	*	.2	.2	.2	.0	32	.1	.5
5	.0	.0	.1	.5	.7	.2	.0	80	.3	1.4
4	.0	.0	.1	.7	1.1	.2	.0	124	.3	2.1
3	.0	.0	*	1.0	1.2	.2	.0	141	.1	2.4
2	.0	*	.3	3.3	1.6	*	.0	306	.7	5.2
1	.0	.0	.4	4.6	1.5	*	.0	347	.8	6.6
0	.0	*	2.2	9.8	1.2	.0	.0	775	.8	13.1
-1	.0	.1	3.1	9.1	.5	.0	.0	756	.8	12.6
-2	.0	.1	6.0	9.5	.3	.0	.0	936	.8	15.9
-3	.0	.1	6.3	6.0	.1	.0	.0	732	.8	12.4
-4	.0	.2	6.1	3.7	.1	.0	.0	591	.8	10.0
-5	.0	.5	5.0	2.0	.1	.0	.0	442	.8	7.5
-6	.0	.5	2.7	.6	.0	.0	.0	224	*	3.8
-7/-8	*	.9	2.3	.4	.0	.0	.0	212	.8	3.6
-9/-10	*	.5	.6	.1	.0	.0	.0	72	.8	1.2
-11/-13	*	.2	.1	*	.0	.0	.0	16	.3	.3
-14/-16	.0	.0	*	.0	.0	.0	.0	2	.3	*
TOTAL	3	174	2080	3053	518	68	7	5903	1	5902
PCT	.1	2.9	35.2	51.7	8.8	1.2	.1	100.0		100.0

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	.0	.0	.0	.0	.6
1-2	.1	1.3	.3	.0	.0	.0	1.7
3-4	.0	.2	.3	.1	.0	.0	.5
5-6	.1	.1	.1	.0	.0	.0	.2
7	.0	.1	.1	.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	.4	2.0	.9	.1	.0	.0	3.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.5	.0	.0	.0	.0	.6
1-2	.1	2.3	.4	.0	.0	.0	3.2
3-4	.1	1.1	1.1	.2	.0	.0	2.4
5-6	.0	.2	.8	.1	.0	.0	1.0
7	.0	.2	.1	.1	.0	.0	.3
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.1	2.9	.4	.0	.0	7.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.9	.0	.0	.0	.0	1.2
1-2	.3	3.3	.6	.0	.0	.0	4.2
3-4	.0	1.1	1.1	.1	.0	.0	2.3
5-6	.0	.3	.3	.1	.0	.0	.6
7	.0	.2	.2	.0	.0	.0	.4
8-9	.0	.1	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	5.9	2.1	.3	.0	.0	8.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.9	.0	.0	.0	.0	1.2
1-2	.1	1.8	.3	.0	.0	.0	2.2
3-4	*	.4	.7	*	.0	.0	1.1
5-6	.0	.1	*	*	.0	.0	.1
7	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	3.1	1.1	*	.0	.0	4.7

PERIOD: (OVER-ALL) 1963-1979 JUNE AREA 0010 NICARAGUA SW COAST 9.5N 86.7W

TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.3	.0	.0	.0	.0	1.8
1-2	.4	3.1	.4	.0	.0	.0	3.8
3-4	.1	1.1	1.2	.0	.0	.0	2.3
5-6	.0	.3	.6	.1	.0	.0	.9
7	.0	.1	.3	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	5.8	2.6	.1	.0	.0	9.5

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.7	.0	.0	.0	.0	2.5
1-2	.6	5.8	1.2	.0	.0	.0	7.6
3-4	.2	3.3	3.4	*	.0	.0	7.0
5-6	.0	.5	1.8	.1	.0	.0	2.3
7	.0	.3	.5	.1	.0	.0	.9
8-9	.0	.1	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	11.7	7.2	.2	.0	.0	20.6

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	3.2	.1	.0	.0	.0	4.4
1-2	.6	8.9	2.6	.0	.0	.0	12.3
3-4	.1	4.0	4.3	.1	.0	.0	8.5
5-6	.0	.6	2.4	1	.0	.0	3.2
7	.0	.4	.7	.0	.0	.0	1.2
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
-40	.0	.0	.0	.0	.0	.0	.0
-48	.0	.0	.0	.0	.0	.0	.0
-60	.0	.0	.0	.0	.0	.0	.0
1-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	17.4	10.7	.2	.0	.0	30.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	.8	.1	.0	.0	.0	1.1	
1-2	.2	2.6	.7	.0	.0	.0	3.8	
3-4	.1	1.5	1.0	.0	.0	.0	2.5	
5-6	*	.4	.4	.0	.0	.0	.8	
7	.0	.1	.1	.1	.0	.0	.3	
8-9	.0	.1	.2	.0	.0	.0	.3	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.1	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
-40	.0	.0	.0	.0	.0	.0	.0	
-48	.0	.0	.0	.0	.0	.0	.0	
-60	.0	.0	.0	.0	.0	.0	.0	
1-70	.0	.0	.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	5.6	2.5	.1	.0	.0	8.8	93.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.5	9.7	.1	.0	.0	.0	21.3	
1-2	3.1	29.8	6.6	.0	.0	.0	38.5	
3-4	.5	12.4	13.1	.5	.0	.0	26.5	
5-6	.1	2.4	6.1	.3	.0	.0	8.9	
7	.0	1.2	2.1	.2	.0	.0	3.5	
8-9	.0	.2	.8	.1	.0	.0	1.1	
10-11	.0	.0	.0	.1	.0	.0	.1	
12	.0	.0	.0	.1	.0	.0	.1	
13-16	.0	.0	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	15.2	54.6	29.0	1.2	.0	.0	100.0	1530

PERIOD: (OVER-ALL) 1949-1979 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.5	14.6	16.0	8.1	2.5	.9	.3	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	2284	3
6-7	.1	2.7	6.5	9.0	3.4	.9	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1239	5
8-9	.0	.9	2.9	3.3	1.7	.7	.3	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	486	5
10-11	.0	.3	.9	.6	.6	.2	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	152	5
12-13	.0	.0	.7	.7	.4	.1	.1	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	94	5
>13	.0	.0	.0	.5	.4	.1	*	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	54	7
INDET	5.6	1.6	2.0	1.5	.4	.2	.2	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	561	2
TOTAL	494	941	1508	1157	454	150	83	24	12	5	0	0	0	0	0	0	0	0	0	4870	4
PCT	10.2	20.1	31.0	23.8	9.3	3.1	1.7	.5	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1875-1979

AREA 0012 NICARAGUA SW COAST
9.5N 86.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.8	2.8	1.2	.0	.0	.0	.0	6.5	1.8	4.3	.0	.0	.2	.0		87.7
NE	1.7	.9	.3	.0	.0	.0	.0	2.9	1.9	3.5	.1	*	.9	.2		90.7
E	3.3	1.5	1.1	.0	.0	.0	.0	5.7	1.7	4.6	.1	.1	.5	.2		87.2
SE	5.7	2.7	1.6	.0	.0	.0	.0	9.9	4.5	6.2	.1	.0	.4	.3		78.9
S	5.3	2.2	3.3	.0	.0	.0	.2	10.7	6.9	5.4	.3	.0	.3	.0		77.1
SW	5.9	2.9	2.5	.0	.0	.0	.0	11.0	6.5	5.3	.1	.0	.2	.1		77.5
W	4.7	3.5	2.3	.0	.0	.0	.0	10.5	6.5	5.0	.1	.1	.1	.0		80.4
NW	3.9	2.1	1.0	.0	.0	.0	.0	7.0	4.7	3.3	.2	.0	.2	.0		85.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	1.6	.7	.2	.0	.0	.0	.0	2.4	2.7	4.2	.0	.0	.9	.4		89.3
TOT PCT	3.9	2.2	1.5	.0	.0	.0	*	7.5	3.8	4.6	.1	*	.4	.1		83.6
TOT OBS:	6523															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00E03	2.8	1.3	1.3	.0	.0	.0	.1	5.4	2.7	2.4	.0	.0	.4	.2		89.3
04E09	4.6	2.4	1.7	.0	.0	.0	.0	8.5	3.9	13.0	.3	.0	.5	.1		74.4
10E15	5.0	3.3	2.2	.0	.0	.0	.0	10.4	5.9	3.3	.2	.1	.3	.2		82.1
16E21	3.2	1.9	1.0	.0	.0	.0	.0	5.9	5.0	.8	.1	.1	.5	.1		87.8
TOT PCT	3.9	2.2	1.5	.0	.0	.0	*	7.6	3.9	4.7	.1	*	.4	.1		83.5
TOT OBS:	6700															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	4.1	1.5	*	.0	.0		6.9	7.9	5.2	4.6	4.1	4.3	9.5	8.7	8.4	6.8
NE	1.1	7.2	6.5	1.2	.0	.0		16.0	11.6	13.5	14.6	10.4	13.6	17.5	17.9	21.2	22.7
E	1.3	7.5	5.8	.8	*	.0		15.3	10.9	14.2	10.9	16.5	10.8	14.9	12.6	17.0	12.4
SE	1.2	3.8	1.4	.1	.0	.0		6.5	8.0	7.8	11.2	7.7	6.3	4.4	5.5	6.2	3.3
S	1.5	5.8	1.5	*	.0	.0		8.9	7.4	11.8	10.7	10.0	12.1	6.8	7.5	7.2	9.0
SW	1.7	9.4	3.0	.1	*	.0		14.2	8.2	16.7	14.8	15.4	16.6	13.2	14.6	11.9	10.9
W	2.1	12.3	3.8	.1	.0	.0		18.3	8.1	17.0	14.6	20.9	25.3	19.5	20.2	15.9	17.4
NW	1.0	4.4	1.0	*	.0	.0		6.5	7.4	5.1	6.3	4.8	10.6	8.0	11.1	6.8	8.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.4							7.4	.0	8.7	12.2	10.2	5.2	6.2	1.8	5.4	7.2
TOT OBS	1355	3983	1792	166	2	0	7286		8.4	1533	167	162A	134	1655	222	1788	181
TOT PCT	18.6	54.7	24.5	2.3	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.2	3.4	.3	*	.0		6.9	7.9	5.1	4.1	9.4	8.5
NE	4.2	8.5	2.9	.3	.0		16.0	11.6	13.6	10.6	17.6	21.3
E	4.4	6.3	2.5	.1	.0		15.3	10.9	13.9	16.1	14.6	16.6
SE	3.1	3.0	.3	*	.0		6.5	8.0	2.1	7.6	4.5	5.9
S	4.6	4.1	.3	.0	.0		8.9	7.4	11.7	10.1	6.9	7.4
SW	6.0	7.6	.5	.1	.0		14.2	8.2	16.5	15.5	13.4	11.8
W	7.7	10.1	.5	.0	.0		18.3	8.1	16.8	20.8	19.6	16.0
NW	3.3	3.0	.2	.0	.0		6.5	7.4	5.2	5.3	8.4	6.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	7.4						7.4	.0	9.0	9.8	4.7	5.6
TOT OBS	3198	3500	554	36	0	7288		8.4	1640	1762	1877	1969
TOT PCT	43.9	48.0	7.6	.5	.0		100.0		100.0	100.0	100.0	100.0

JULY

PERIOD: (PRIMARY) 1953-1972
(SUPP-ALL) 1973-1979

AREA 0010 NICARAGUA SW COAST
9.5N 86.7W

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
0?E03	4.0	12.0	54.0	23.2	1.7	.0	.0	8.0	100.0	1680
06E09	9.8	10.4	56.8	21.9	1.5	.0	.0	7.9	100.0	1762
12E15	5.7	12.0	56.4	23.5	2.3	.1	.0	8.4	100.0	1877
18E21	5.6	10.3	52.0	26.7	3.4	.1	.0	9.1	100.0	1969
TOT	542	413	3983	1782	166	2	0	8.4		7288
PCT	7.4	11.2	54.7	24.5	2.3	*	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.8	1.6	5.1	1.4		5.3
NE	2.9	4.3	7.0	2.2		4.8
E	2.4	3.8	7.2	2.7		5.1
SE	.6	1.0	2.4	1.0		5.9
S	.5	1.0	4.3	3.2		6.3
SW	.9	1.6	4.9	5.0		6.2
W	1.4	3.2	6.6	4.2		5.9
NW	.6	1.1	2.9	1.6		5.8
VAR	.0	.0	.0	.0		.0
CALM	1.1	1.4	4.1	1.2		5.1
TOT OBS	606	1013	2493	1320	5432	5.6
TOT PCT	11.2	18.6	45.9	24.3	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	MM <5/8 ANY HGT	TOTAL OBS
N	.1	.1	.1	.8	.7	.5	.1	*	*	*	4.6	
NE	.1	.1	.2	1.0	1.5	.5	.2	.1	.1	*	12.7	
E	.1	*	.2	1.0	1.8	.8	.2	.1	.1	.1	11.3	
SE	.1	.1	.2	.7	.5	.4	.1	*	*	*	3.8	
S	.2	*	.3	1.2	1.8	.7	.2	*	*	*	4.6	
SW	.2	*	.4	1.9	2.9	.8	.3	*	*	*	7.7	
W	.1	.2	.7	2.4	3.0	.9	.4	*	*	*	10.5	
NW	*	*	.2	.7	.9	.3	.2	*	.0	*	3.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	*	.1	.6	.4	.3	.1	.0	.0	*	5.2	
TOT OBS	49	28	128	557	763	282	103	17	12	15	3478	5432
TOT PCT	.9	.5	2.4	10.3	14.0	5.2	1.9	.3	.2	.3	64.0	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >5OYD	= OR >0
= OR >6500	.5	.5	.5	.5	.5	.5	.5	.5
= OR >4000	.8	.8	.8	.8	.8	.8	.8	.8
= OR >3500	2.3	2.7	2.7	2.7	2.7	2.7	2.7	2.7
= OR >2000	6.9	7.4	7.6	7.9	7.9	7.9	7.9	7.9
= OR >1000	19.2	21.7	22.1	22.1	22.1	22.1	22.1	22.1
= OR >600	25.8	31.3	32.1	32.2	32.2	32.2	32.3	32.3
= OR >300	28.2	33.5	34.4	34.5	34.6	34.6	34.6	34.6
= OR >150	28.4	33.9	34.9	35.0	35.1	35.1	35.1	35.1
= OR > 0	28.7	34.5	35.6	35.8	35.9	35.9	36.0	36.0
TOTAL	1603	1924	1959	1999	2004	2005	2011	2012

TOTAL NUMBER OF OBS: 5584 PCT FREQ MM <5/8: 64.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
6.2	11.9	15.8	16.1	13.8	9.2	9.4	7.9	10.1 .5	5934

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1875-1979

AREA 0010 NICARAGUA SW COAST
9.5N 86.7W

TABLE A

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	*	*	.0	*	*	*	*	.0	.0	.2	
	NO PCP	.0	*	*	.0	.0	.0	.0	*	.0	.0	*	
	TOT %	*	*	.1	.0	*	*	*	*	.0	.0	.2	
1/2<1	PCP	*	*	*	*	*	*	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
	TOT %	*	*	*	*	*	*	*	.0	.0	.0	.1	
1<2	PCP	.0	*	*	*	.1	.1	*	.0	.0	*	.2	
	NO PCP	.0	.0	*	.0	*	*	*	.0	.0	.0	.1	
	TOT %	.0	*	*	*	.1	.1	*	.0	.0	*	.3	
2<5	PCP	.1	.1	.1	*	.1	.2	.2	*	.0	*	.7	
	NO PCP	*	.1	.1	*	.1	.1	.1	*	.0	*	.6	
	TOT %	.1	.2	.2	.1	.2	.3	.3	*	.0	*	1.3	
5<10	PCP	.2	.1	.3	.3	.3	.6	.6	.2	.0	.1	2.7	
	NO PCP	.6	1.2	1.1	.6	.7	1.0	1.4	.5	.0	.2	7.1	
	TOT %	.5	1.2	1.4	.9	1.0	1.6	2.1	.7	.0	.2	9.7	
10+	PCP	.2	.1	.4	.3	.5	.7	1.0	.2	.0	.1	3.6	
	NO PCP	5.1	14.4	13.8	5.2	7.2	11.5	14.7	5.6	.0	6.4	84.8	
	TOT %	6.3	14.7	14.2	5.5	7.7	12.1	15.7	5.7	.0	6.5	88.3	
	TOT OBS												6516
	TOT PCT	7.0	14.1	15.9	5.4	9.0	14.2	18.1	6.4	.0	6.9	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	*	.0	.0	*	.1	
	4-10	.0	*	*	.0	.0	*	*	.0	.0		.1	
	11-21	*	*	*	.0	*	*	*	*	.0		.1	
	22+	.0	.0	.0	.0	*	*	.0	.0	.0		*	
	TOT %	*	*	.1	.0	*	*	.1	*	.0	*	.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	*	*	*	*	.0	*	.0	.0		.1	
	11-21	.0	*	.0	.0	.0	*	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	*	*	*	*	*	.0	.0	.0	.1	
1<2	0-3	.0	.0	.0	.0	.0	*	*	*	.0	*	.1	
	4-10	.0	*	*	*	.1	.1	*	*	.0		.3	
	11-21	.0	*	*	.0	*	.0	*	*	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	*	*	.1	.1	*	*	.0	*	.4	
2<5	0-3	.0	.0	*	.0	*	*	*	*	.0	*	.1	
	4-10	.1	.1	.1	*	.2	.2	.1	*	.0		.9	
	11-21	*	.1	.1	*	.1	.1	.2	*	.0		.5	
	22+	.0	*	.0	.0	.0	.0	*	.0	.0		*	
	TOT %	.1	.2	.2	.1	.2	.3	.3	.1	.0	*	1.6	
5<10	0-3	.1	.2	.2	.1	.1	.1	.2	.1	.0	.3	1.4	
	4-10	.3	.5	.7	.4	.5	.9	1.4	.4	.0		5.1	
	11-21	.1	.5	.4	.3	.3	.5	.5	.2	.0		2.8	
	22+	.0	.1	.1	.1	*	*	*	.0	.0		.3	
	TOT %	.5	1.2	1.4	.9	1.0	1.6	2.1	.6	.0	.3	9.6	
10+	0-3	1.1	.9	1.1	1.0	1.4	1.5	1.8	.9	.0	6.7	16.5	
	4-10	3.7	6.7	6.7	3.3	5.1	8.2	10.5	4.0	.0		48.2	
	11-21	1.3	5.9	5.6	1.1	1.1	2.3	3.1	.9	.0		21.4	
	22+	*	1.1	.7	*	*	*	*	*	.0		2.0	
	TOT %	6.2	14.6	14.1	5.4	7.6	12.0	15.5	5.7	.0	6.7	87.9	
	TOT OBS												6741
	TOT PCT	6.9	16.2	15.8	6.4	8.9	14.1	18.0	6.5	.0	7.2	100.0	

PERIOD: (PRIMARY) 1953-1976
(OVER-ALL) 1975-1976

AREA 0010 NICARAGUA SW COAST
9.5N 86.7W

TABLE 10

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

HOUR (GMT)	UNL 199	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
0001Z	.9	.4	2.0	7.6	12.8	5.4	1.4	.3	.4	.6	31.4	64.1	1452
0601Z	1.2	.5	2.4	10.5	15.1	4.3	2.2	.2	.2	.1	36.6	63.4	1312
1201Z	1.1	.6	2.1	11.5	13.4	4.6	1.7	.5	.1	.4	36.2	63.8	1501
1801Z	.3	.1	2.5	9.4	13.7	5.5	2.0	.2	.2	.1	34.4	65.6	1541
TOT	56	26	131	567	796	291	106	17	13	17	2017	3789	5806
PCT	.9	.5	2.3	9.8	13.7	5.0	1.8	.3	.2	.3	34.7	65.3	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 OPS
0001Z	.2	.1	.6	1.5	7.4	90.2	1619
0601Z	.2	.1	.2	1.3	12.4	85.7	1657
1201Z	.5	.3	.3	2.0	10.4	86.4	1907
1801Z	.2	.1	.5	1.5	8.3	89.4	1439
TOT	21	10	29	110	668	6084	6922
PCT	.3	.1	.4	1.6	9.6	87.9	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 <500	<600 <1	<1000 <5	1000+ AND/OR 5+	NM <5/8 AND 5+	TOTAL OBS
0001Z	.9	3.5	12.2	21.3	66.5	1387
0601Z	1.3	4.4	15.6	22.5	61.9	1260
1201Z	1.2	4.3	16.5	21.4	62.2	1446
1801Z	.3	3.4	13.5	21.9	64.5	1491
TOT	50	216	806	1214	3564	5584
PCT	.9	3.9	14.4	21.7	63.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.1	.4	.2	.1	.0	36	.7
85/89	.0	.0	.0	.1	2.2	6.1	1.6	.3	581	10.2
80/84	.0	.0	.0	*	1.9	20.8	35.5	6.9	3698	65.5
75/79	.0	.2	.1	.0	*	1.4	12.8	9.7	1292	22.9
70/74	.0	.0	.0	.0	.0	.0	.1	.5	35	.6
TOTAL	0	8	2	14	254	1626	2794	976	5644	100.0
PCT	.0	.0	.0	.2	4.5	28.8	49.5	17.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	.1	.2	.1	.1	.1	.1	.1	.0	*
1.0	2.4	2.2	.4	.5	.9	1.2	.7	.0	.8
4.7	12.2	10.8	3.9	5.2	8.3	11.3	3.9	.0	5.2
1.2	1.4	2.6	1.7	3.1	4.9	5.0	1.6	.0	1.4
*	.1	.1	.1	.1	.1	.2	.1	.0	*
7.1	16.3	15.8	6.1	8.9	14.4	17.7	6.3	.0	7.4

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0001Z	94	89	86	82	77	75	72	81.5	1722
0601Z	87	85	84	80	77	75	69	80.3	1812
1201Z	92	86	83	80	77	75	70	80.2	1906
1801Z	94	90	88	83	78	75	68	82.8	2003
TOT	94	89	86	81	77	75	68	81.2	7441

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0001Z	.0	.0	3.9	33.0	48.8	14.3	82	1612
0601Z	.0	.1	1.5	19.3	56.4	22.7	85	1418
1201Z	.0	.1	1.3	17.9	58.7	22.0	85	1485
1801Z	.0	.1	10.9	43.5	34.4	10.4	79	1493
TOT	0	14	259	1656	2874	1006	83	5808

JULY

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1975-1979

AREA CODE NICARAGUA SW COAST
9.5N 86.7W

TABLE 17

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

AIR-SEA / SEA DIF	69 / 72	73 / 76	77 / 80	81 / 84	85 / 88	89 / 92	>92	TOT	N FOG	%G FOG
14/16	.0	.0	.0	.0	.0	*	.0	1	.0	*
11/13	.0	.0	.0	*	*	*	*	7	*	.1
9/10	.0	.0	.0	.1	*	*	*	19	*	.3
7/8	.0	.0	*	.2	.5	.2	*	52	.0	.9
6	.0	*	*	.1	.3	.1	.0	50	.0	.8
5	.0	.0	.1	.6	1.0	.1	.0	114	.0	1.9
4	.0	.0	.2	1.1	1.1	.2	.0	161	*	2.6
3	.0	.0	.1	1.5	1.5	*	.0	194	.0	3.2
2	.0	.0	.4	4.1	1.8	.0	.0	388	.0	6.4
1	.0	.0	.0	5.5	1.1	*	.0	473	*	7.7
0	.0	*	2.5	9.6	1.1	*	.0	826	*	13.6
-1	.0	.1	3.3	9.6	.6	*	.0	805	*	13.2
-2	.0	.1	7.5	8.3	.1	.0	.0	979	*	16.0
-3	.0	.2	6.1	4.4	.1	.0	.0	662	.0	10.9
-4	.0	.4	4.3	2.6	*	.0	.0	563	.0	9.2
-5	.0	.4	3.9	1.3	*	.0	.0	339	*	5.5
-6	.0	.7	2.2	.3	*	.0	.0	196	.0	3.2
-7/-8	.0	1.1	1.8	.4	.0	.0	.0	220	*	3.3
-9/-10	*	.3	.3	.1	.0	.0	.0	40	.0	.7
-11/-13	*	.1	.2	.0	.0	.0	.0	25	.0	.3
-14/-16	*	*	*	.0	.0	.0	.0	1	.0	*
TOTAL	5		2183		601		3		8	6091
		212		3037		58		6096		
PCT	.1	3.5	35.8	49.8	9.9	1.0	*	100.0	.1	99.9

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

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

%

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.8	.0	.0	.0	.0	1.4
1-2	.2	2.0	.4	.0	.0	.0	2.5
3-4	.2	.9	.4	*	.0	.0	1.9
5-6	.1	.1	.4	.0	.0	.0	.5
7	.0	*	.2	*	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	3.8	1.7	.1	.0	.0	6.7

%E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.4	.1	.0	.0	.0	2.1
1-2	.1	3.4	1.0	.0	.0	.0	4.6
3-4	.1	1.8	1.4	.2	.0	.0	3.5
5-6	.0	.5	2.3	.2	.0	.0	2.9
7	.0	.1	.7	.2	.0	.0	1.0
8-9	.0	.0	.1	.1	.0	.0	.3
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	6.6	4.6	.4	.1	.0	12.5

%E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.7	*	.0	.0	.0	1.0
1-2	.3	2.2	.2	.0	.0	.0	2.7
3-4	.1	.7	.5	.1	.0	.0	1.3
5-6	.0	.0	*	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.0	1.1	.1	.0	.0	5.0

PERIOD: (OVERALL) 1955-1979 JULY AREA 0010 NICARAGUA Sm COAST

9.5N 86.7W

TABLE 1E (CONT)

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

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	1.7	.1	.0	.0	.0	2.7	.7	2.4	.1	.0	.0	.0	3.3
1-2	.6	3.6	.6	.0	.0	.0	4.8	.6	5.9	1.1	.0	.0	.0	7.8
3-4	.1	1.6	.6	.0	.0	.0	2.6	.2	2.7	1.7	.0	.0	.0	4.6
5-6	.1	.2	.1	.0	.0	.0	.6	.1	.6	.4	.0	.0	.0	1.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	7.2	1.7	.1	.0	.0	10.7	1.7	11.4	4.1	.0	.0	.0	17.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.4	2.1	.1	.0	.0	.0	2.7	.4	1.6	.0	.0	.0	.0	2.0	
1-2	.8	6.2	1.7	.0	.0	.0	8.7	.6	2.0	.2	.0	.0	.0	2.8	
3-4	.1	3.1	1.6	.0	.0	.0	5.1	.1	.7	.3	.0	.0	.0	1.0	
5-6	.2	.8	.4	.0	.0	.0	1.4	.1	.2	.0	.0	.0	.0	.3	
7	.0	.0	.3	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.5	12.2	4.7	.0	.0	.0	18.4	.9	4.5	.6	.0	.0	.0	5.9	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	11.6	12.6	.4	.0	.0	.0	24.6	
1-2	3.7	24.0	6.0	.0	.0	.0	33.7	
3-4	1.0	13.2	9.5	.3	.0	.0	24.0	
5-6	.6	2.6	6.2	.5	.0	.0	9.8	
7	.0	.4	1.8	.3	.0	.0	2.7	
8-9	.0	.1	.4	.3	.0	.0	.8	
10-11	.0	.0	.1	.1	.1	.0	.2	
12	.0	.0	.0	.1	.0	.0	.1	
13-16	.0	.0	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	17.0	57.0	24.4	1.6	.1	.0	100.0	1595

PERIOD: (OVERALL) 1955-1979 TABLE 1F

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.3	13.6	17.8	8.7	2.6	.8	.4	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	2445	3
6-7	.1	2.2	8.1	8.7	3.7	1.2		.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	1749	5
8-9	*	.8	2.9	3.7	1.8	.7		.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	542	5
10-11	.0	.3	.7	1.0	.4	.3	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	168	5
12-13	.0	.0	1.0	.4	*	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	103	5
>13	.0	*	.0	.3	.1	.1	.1	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	32	7
INDET	4.4	1.1	1.6	1.4	.6	.2	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	473	2
TOTAL	442	925	1604	1212	501	164	101	26	23	4	3	0	0	0	0	0	0	0	0	5012	4
PCT	8.8	18.5	32.0	24.2	10.0	3.3	2.0	.5	.5	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1954-1979
(OVER-ALL) 1942-1979

AREA 0010 NICARAGUA Sh COAST
9.5N 86.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SNOW	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	5.5	2.1	1.6	.0	.0	.0	.1	9.4	5.7	2.6	.3	.0	1.1	.0		83.5
NE	2.3	1.5	.4	.0	.0	.0	.0	4.7	2.6	4.8	.1	.0	.2	.0		92.6
E	3.1	2.6	.6	.0	.0	.0	.0	6.1	2.6	3.2	.2	.0	.6	.1		87.6
SE	3.8	2.7	1.6	.0	.0	.0	.0	8.0	6.3	3.6	.0	.0	.3	.0		82.2
S	6.4	3.5	4.4	.0	.0	.0	.0	13.4	9.2	2.9	.0	.0	.2	.3		79.2
SW	6.8	3.4	2.5	.0	.0	.0	.1	12.9	9.7	6.8	*	.0	*	*		76.9
W	5.6	2.8	2.3	.0	.0	.0	.0	10.2	6.6	4.9	.1	.1	.2	.1		82.6
NW	5.9	2.6	1.7	.0	.0	.0	.0	9.6	6.0	4.1	.2	.0	.5	.1		82.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	2.2	2.2	1.6	.0	.0	.0	.0	6.0	2.2	5.6	.0	.0	.2	.0		96.2
TOT PCT	4.8	2.7	2.0	.0	.0	.0	*	9.2	6.0	4.1	.1	*	.3	.1		92.1
TOT OBS:	6442															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SNOW	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
00103	3.2	2.1	1.6	.0	.0	.0	.0	6.7	3.2	1.8	.1	.0	.7	.1		87.9
04109	4.9	2.3	2.6	.1	.0	.0	.1	10.1	6.4	10.9	.1	.0	.2	.1		74.9
12115	6.2	3.1	2.2	.0	.0	.0	.1	11.6	5.7	3.8	.1	.0	.4	.0		78.6
16121	4.7	2.2	1.6	.0	.0	.0	.0	8.1	6.5	.2	.2	.1	.3	.1		86.7
TOT PCT	4.7	2.7	2.0	.0	.0	.0	*	9.2	6.5	4.1	.1	*	.3	.1		92.1
TOT OBS:	6660															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)				
WND DIR	0-3	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	3.5	3.1	*	.0	.0		5.5	7.8	4.5	5.3	3.0	3.7	7.3	7.1	6.4	4.4
NE	.4	5.4	4.3	.5	*	.0		11.7	10.7	10.4	6.7	7.7	14.4	12.4	9.6	15.3	13.2
E	1.3	6.6	4.5	.4	.0	.0		12.8	10.1	12.5	8.1	12.0	12.5	11.9	13.0	15.5	9.5
SE	1.1	4.4	1.0	.1	.0	.0		6.6	7.3	7.1	5.4	9.4	13.2	4.4	7.0	6.1	7.0
S	1.6	6.3	1.5	.1	.0	.0		9.5	7.5	11.2	13.4	11.1	10.3	7.6	9.4	7.4	10.8
SW	1.9	11.4	3.7	.1	.0	.0		17.5	8.2	18.4	24.3	19.2	19.4	17.0	17.5	15.1	19.4
W	1.7	14.4	4.4	.2	.0	.0		21.2	8.6	22.0	19.7	21.4	17.5	23.3	25.0	19.4	19.4
NW	.4	4.2	1.4	.1	.0	.0		7.1	7.8	5.6	2.0	5.5	8.4	8.4	9.0	8.4	4.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.8							7.8	.0	7.5	9.1	11.7	5.2	7.2	3.2	6.3	7.3
TOT OBS	1744	4152	1544	103	1	3	7154		8.0	1548	223	1619	134	1564	217	1659	144
TOT PCT	14.2	54.0	22.4	1.4	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)							HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.6	2.7	.2	*	.0		5.5	7.8	4.6	3.1	7.3	7.0
NE	3.5	6.1	2.0	.1	.0		11.7	10.7	10.2	8.2	12.4	15.1
E	4.1	7.0	1.6	.1	.0		12.8	10.1	12.2	12.0	12.1	14.6
SE	3.6	3.2	.2	*	.0		6.6	7.3	7.0	9.7	4.7	6.2
S	4.5	4.6	.3	*	.0		9.5	7.5	11.4	11.0	7.8	7.9
SW	7.2	9.6	.7	.0	.0		17.5	8.2	19.6	18.1	17.1	15.4
W	6.5	12.1	.4	.1	.0		21.2	8.6	21.8	21.3	23.5	18.6
NW	3.3	3.6	.2	*	.0		7.1	7.8	5.4	5.7	8.4	8.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	7.8						7.8	.0	7.4	10.8	6.7	6.4
TOT OBS	3206	3499	426	23	0	7154		8.0	1713	1753	1865	1823
TOT PCT	44.8	48.9	6.0	.3	.0		100.0		100.0	100.0	100.0	100.0

AUGUST

PERIOD: (PPI=HERE) 1954-1976
(OVER-ALL) 1962-1976

AREA CODE NICARAGUA SW COAST
9.5N 86.7W

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
0PKD3	7.4	16.5	59.8	23.1	1.3	.0	.0	7.9	100.0	1713
6KEP6	10.8	9.6	60.0	18.5	1.2	.0	.0	7.5	100.0	1757
12K15	6.7	9.4	59.0	23.6	1.3	.0	.0	8.1	100.0	1865
18KP1	6.4	12.0	53.8	26.0	2.0	.1	.0	8.4	100.0	1823
TOT	552	742	4152	1596	103	5	0	8.0		7156
PCT	7.8	10.4	58.0	22.4	1.4	*	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & MISC	TOTAL OBS	MEAN CLOUD COVER	000 150	150 299	300 599	600 999	1000 1999	2000 2499	2500 4999	5000 6499	6500 7999	8000+	HM <5/8 ANY HGT	TOTAL OBS
N	.2	.6	2.2	1.4		5.6	*	*	.2	.6	.7	.2	.1	*	.1	.0	2.3	
NE	1.4	2.9	5.1	2.4		5.7	*	*	.2	1.1	1.2	.4	.1	.1	.1	.1	4.5	
E	2.4	2.8	5.4	2.4		5.8	.1	.1	.3	1.2	1.7	.3	.2	.1	*	*	5.3	
SE	.7	1.2	3.7	1.1		5.7	.1	*	.3	.8	1.1	.2	.2	*	*	*	4.1	
S	.2	1.2	4.4	2.1		6.1	.1	.1	.4	1.4	1.5	.4	.2	.1	*	*	5.1	
SW	.2	2.4	8.7	4.9		6.3	.1	.2	1.0	2.8	3.1	1.0	.4	.1	*	*	8.7	
W	1.5	5.1	10.2	4.2		6.0	.3	.2	.7	2.6	3.4	1.2	.5	.2	*	.1	11.1	
NW	.6	1.0	3.4	1.1		6.0	.1	*	.2	1.1	1.0	.4	.2	.1	*	*	3.7	
VAR	.0	*	.0	*		4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.4	1.7	3.5	1.1		5.1	*	*	.2	.4	.9	.4	.2	.1	*	*	5.4	
TOT OBS	643	919	2543	1409	5516	6.7	57	36	165	681	764	292	117	35	15	16	3216	5516
TOT PCT	10.1	17.0	46.9	24.0	100.0		1.1	.7	3.4	12.4	14.2	5.4	2.2	.6	.3	.3	59.4	100.0

TABLE 6

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

TABLE 7

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

CEILING (FEET)	VSBY (SM) > 0 OR	> 0 OR	> 0 OR	> 0 OR	> 0 OR	> 0 OR	> 0 OR	> 0 OR
	>10	5	2	1	1/2	1/4	>0/0	0
> 0 OR >500	.5	.6	.6	.6	.6	.6	.6	.6
> 0 OR >1000	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
> 0 OR >2500	3.0	3.4	3.4	3.4	3.4	3.4	3.4	3.4
> 0 OR >5000	7.9	8.6	8.7	8.7	8.7	8.7	8.7	8.7
> 0 OR >10000	20.0	22.4	22.7	22.8	22.8	22.8	22.8	22.8
> 0 OR >400	29.3	34.1	35.0	35.2	35.2	35.3	35.3	35.3
> 0 OR >700	31.3	37.0	36.3	38.5	38.6	38.6	38.6	38.6
> 0 OR >350	31.7	37.6	39.0	39.2	39.2	39.3	39.3	39.3
> 0 OR > 0	32.1	39.3	39.8	40.1	40.3	40.3	40.3	40.4
TOTAL	1791	2138	2224	2239	2246	2250	2250	2253

TOTAL NUMBER OF OBS: 5541 PCT FREQ HM <5/8: 59.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

-	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
5.1	17.4	15.4	15.8	17.6	9.3	10.2	8.4	12.7	.6	5516

PERIOD: (PRIMARY) 1954-1979
(OVER-ALL) 1957-1979

AREA 0610 NICARAGUA SW COAST
9.5N 86.7W

TABLE X

PERCENT FREQ OF ... DIRECTION VS OCCURRENCE ... NON-OCCURRENCE OF 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	
	NO PCP	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	*	*	.0	*	*	.0	*	.0	.0	.0	.1	
1/2<1	PCP	*	*	*	*	.0	*	*	*	.0	.0	.2	
	NO PCP	.0	.0	*	.0	.0	*	*	.0	.0	*	.1	
	TOT %	*	*	*	*	.0	*	*	*	.0	*	.2	
1<2	PCP	*	*	.0	*	*	.1	.1	*	.0	.0	.3	
	NO PCP	*	.0	*	*	*	*	*	.0	.0	.0	.1	
	TOT %	*	*	*	*	*	.1	.2	*	.0	.0	.4	
2<5	PCP	.1	*	.1	.1	.1	.4	.2	*	.0	*	1.0	
	NO PCP	*	*	.1	*	.1	.1	.7	*	.0	*	.6	
	TOT %	.1	.1	.2	.1	.2	.5	.4	.1	.0	*	1.7	
5<10	PCP	.1	.2	.3	.2	.4	.8	.7	.1	.0	.2	3.0	
	NO PCP	.4	.6	.7	.5	.7	1.6	1.8	.6	.0	.4	7.2	
	TOT %	.5	.8	1.0	.7	1.0	2.4	2.4	.8	.0	.7	10.3	
10+	PCP	.2	.3	.4	.2	.8	1.0	1.0	.4	.0	.2	4.7	
	NO PCP	4.4	10.6	11.6	5.8	7.4	13.7	16.9	5.5	.0	6.8	82.7	
	TOT %	4.7	10.4	12.0	6.0	8.2	14.7	18.0	5.9	.0	7.0	87.3	
	TOT OBS												5428
	TOT PCT	5.3	11.6	13.2	6.9	9.5	17.7	21.0	6.9	.0	7.7	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		.1	
	11-21	*	*	.0	*	.0	.0	*	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	.0	*	*	.0	.1	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	*	.0	.0	*	.0	.0	.0	*	*	
	4-10	*	*	*	*	.0	*	*	*	.0		.1	
	11-21	.0	*	*	.0	.0	*	*	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	*	*	.0		*	
	TOT %	*	*	*	*	.0	*	*	*	.0	*	.2	
1<2	0-3	.0	*	*	.0	*	*	*	.0	.0	*	.1	
	4-10	*	*	*	*	*	.1	.1	.0	.0		.2	
	11-21	*	*	.0	.0	*	.1	.1	*	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	*	.0	.0		.1	
	TOT %	*	*	*	*	*	.1	.2	*	.0	*	.5	
2<5	0-3	.0	*	*	*	.0	*	*	.0	.0	*	.1	
	4-10	.1	.1	.1	.1	.2	.3	.2	.1	.0		1.2	
	11-21	*	*	.1	*	.1	.2	.1	*	.0		.7	
	22+	.0	.0	.0	.0	.0	.0	*	*	.0		*	
	TOT %	.1	.1	.3	.2	.2	.5	.4	.2	.0	*	2.0	
5<10	0-3	.0	*	.1	.1	.1	.2	.2	.1	.0	.1	1.4	
	4-10	.4	.4	.4	.4	.6	1.1	1.4	.5	.0		5.2	
	11-21	.1	.3	.4	.2	.3	.9	.6	.2	.0		3.2	
	22+	.0	.1	.1	*	*	.1	*	*	.0		.3	
	TOT %	.5	.8	.9	.7	1.0	2.3	2.4	.8	.0	.6	10.1	
10+	0-3	.9	.9	1.2	1.0	1.4	1.7	1.5	.8	.0	7.0	16.3	
	4-12	2.9	5.5	6.2	4.3	5.5	10.4	12.3	4.0	.0		51.0	
	11-21	.9	4.0	4.1	.6	1.2	2.5	4.0	1.1	.0		18.6	
	22+	*	.4	.6	*	*	.1	.1	.0	.0		1.0	
	TOT %	4.7	10.8	11.9	6.0	8.1	14.7	17.9	5.9	.0	7.0	87.0	
	TOT OBS												6663
	TOT PCT	5.4	11.8	13.1	6.9	9.4	17.7	21.0	6.9	.0	7.7	100.0	

PERIOD* (PRIMARY) 1954-1974
(OVERALL) 1887-1974

AREA 0010 NICARAGUA SW COAST
9.5N 86.7W

TABLE 10

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

HOUR (GMT)	000 199	200 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00E03	.7	.7	2.5	10.6	11.4	5.6	1.9	.9	.3	.3	35.3	64.7	1492
06E09	1.9	.4	2.9	12.4	13.7	4.8	1.9	.3	.4	.4	39.6	60.4	1328
12E15	1.0	.7	4.4	13.7	15.4	4.4	2.2	.5	.4	.4	43.1	56.9	1529
18E21	.4	.6	3.1	11.5	14.0	6.1	2.4	.7	.0	.1	38.6	61.2	1419
TOT	58	74	167	697	791	301	121	36	15	18	2263	3505	5768
PCT	1.0	.7	3.2	12.1	13.7	5.2	2.1	.6	.3	.3	39.2	60.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.1	.2	.7	1.3	8.7	89.1	1673
06E09	.1	.3	.4	1.8	11.1	86.2	1692
12E15	.1	.2	.6	2.7	10.4	86.1	1807
18E21	.4	.2	.5	2.5	9.9	86.6	1712
TOT	12	16	36	142	690	5988	6884
PCT	.2	.2	.5	2.1	10.0	87.0	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 <50YD	<600 <1	<1000 <2	1000+ AND5+	NM <5/8 AND 5+	TOTAL OBS
00E03	.8	4.2	15.3	21.2	63.5	1495
06E09	1.9	5.9	19.3	21.7	59.0	1286
12E15	1.1	6.4	21.4	23.3	55.3	1466
18E21	.5	4.6	16.8	23.2	60.0	1384
TOT	59	294	1014	1249	3319	5581
PCT	1.1	5.3	18.2	22.4	59.5	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
95/99	.0	.0	.0	*	.0	.0	.0	.0	1	*
90/94	.0	.0	.0	.1	.3	.2	*	.0	29	.5
85/89	.0	.0	.0	.1	1.8	4.8	1.1	.3	463	8.2
80/84	.0	.0	.0	.1	1.3	19.4	34.4	6.6	3484	61.8
75/79	.0	.0	.0	*	*	1.4	13.7	13.6	1620	28.8
70/74	.0	.0	.0	.0	.0	.0	.1	.6	37	.7
TOTAL	0	0	0	17	194	1451	2786	1186	5634	100.0
PCT	.0	.0	.0	.3	3.4	25.8	49.4	21.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	.0	.0	*	*	.0	.0
	*	.1	*	*	.1	.1	.1	*	.0	*
	.6	1.5	1.7	.6	.6	.9	1.1	.6	.0	.7
	3.4	8.2	8.8	4.4	5.5	10.1	12.6	3.9	.0	5.1
	1.1	1.6	2.2	1.7	3.5	6.8	7.4	2.2	.0	2.1
	*	*	*	*	.1	.2	.2	*	.0	.1
	5.2	11.4	12.9	6.8	9.6	18.0	21.4	6.8	.0	8.0

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	95	87	85	81	77	75	70	81.2	1753
06E09	88	85	83	80	76	74	72	80.0	1804
12E15	90	85	83	80	76	74	70	79.8	1906
18E21	93	90	88	82	77	75	71	82.5	1861
TOT	95	88	86	[illegible]	77	74	70	80.9	7324

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.2	1.0	24.6	52.4	15.7	83	1480
06E09	.0	.1	.9	16.6	55.6	26.8	85	1446
12E15	.0	.4	.7	14.7	55.7	28.5	86	1517
18E21	.0	.6	9.3	43.4	33.6	13.0	79	1388
TOT	0	19	194	1490	2892	1234	83	5831

AUGUST

PERIOD: (PRIMARY) 1954-1975
(OVER-ALL) 1882-1975

AREA 0010 NICARAGUA SW COAST
9.5N 86.7W

TABLE 17

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

AIR-SEA TMP DIF	64 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	% FOG	WO FOG
14/16	.0	.0	.0	.0	*	.0	.0	1	.0	*
11/13	.0	.0	.0	*	*	.0	*	5	.0	.1
9/10	.0	.0	.0	*	.1	.1	*	14	.0	.2
7/8	.0	.0	.1	.2	.5	.1	.0	52	.0	.4
6	.0	.0	*	.2	.4	.1	.0	46	.0	.8
5	.0	.0	.1	.5	.7	.1	.0	86	.0	1.5
4	.0	.0	.1	.9	1.0	.1	.0	128	.0	2.1
3	.0	*	.2	1.3	1.2	*	.0	167	.0	2.6
2	.0	*	.6	3.4	1.3	.0	.0	335	.0	5.5
1	.0	*	1.4	4.2	1.1	*	.0	407	*	6.7
0	.0	.1	2.9	8.5	.8	*	.0	748	*	12.4
-1	*	.1	4.7	8.2	.6	.0	.0	823	*	13.6
-2	.0	.3	7.4	7.5	.1	.0	.0	926	.0	15.3
-3	.0	.3	7.7	4.6	.1	.0	.0	775	*	12.8
-4	.0	.3	6.9	2.7	.0	.0	.0	596	*	9.9
-5	.0	.5	4.7	1.2	*	.0	.0	390	*	6.4
-6	.0	.4	3.0	.3	.0	.0	.0	227	*	3.7
-7/-8	*	1.1	1.7	.5	.0	.0	.0	204	.0	3.4
-9/-10	.1	.7	.5	.1	.0	.0	.0	81	.0	1.3
-11/-12	.1	.1	.1	*	.0	.0	.0	20	.0	.3
-13/-16	.1	.0	.0	*	.0	.0	.0	5	.0	.1
TOTAL	16	2.3	2561	2676	196	43	3	6040	7	6073
PCT	.3	42.4	42.4	44.3	3.0	.7	*	100.0	.1	99.9

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.7	.0	.0	.0	.0	.9
1-2	.2	2.2	.1	.0	.0	.0	2.5
3-4	.0	.4	.6	.0	.0	.0	.9
5-6	.0	.3	.4	*	.0	.0	.7
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	3.6	1.1	*	.0	.0	5.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.9	.1	.0	.0	.0	1.3
1-2	.4	2.7	.4	.0	.0	.0	3.5
3-4	.1	1.2	1.9	.1	.0	.0	3.3
5-6	.0	.3	1.0	.1	.0	.0	1.4
7	.0	*	.4	.1	.0	.0	.5
8-9	.0	.0	.1	.1	.0	.0	.2
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	5.1	4.0	.4	.0	.0	10.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.9	.1	.0	.0	.0	1.6
1-2	.5	3.2	.4	.0	.0	.0	4.0
3-4	*	1.9	1.5	.0	.0	.0	3.4
5-6	.0	.6	.9	.2	.0	.0	1.7
7	.0	*	.5	*	.0	.0	.6
8-9	.0	.0	.1	*	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	6.6	3.6	.2	.0	.0	11.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.6	*	.0	.0	.0	.9
1-2	.4	2.1	.3	.0	.0	.0	2.8
3-4	.1	.7	.3	.0	.0	.0	1.2
5-6	.0	.2	.2	*	.0	.0	.4
7	.0	.1	*	.0	.0	.0	.1
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	*	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	3.8	.9	.1	.0	.0	5.5

PERIOD: (OVER-ALL) 1949-1979 AUGUST AREA 0010 NICARAGUA SW COAST

TABLE 18 (CONT) 9.5N 86.7W

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	1.2	.1	.0	.0	.0	2.2
1-2	.5	3.6	.4	.0	.0	.0	4.4
3-4	.3	1.6	.4	.0	.0	.0	2.7
5-6	.0	.2	.4	.0	.0	.0	.5
7	.0	.1	.1	.0	.0	.0	.2
8-9	.0	.1	.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	1.6	6.7	1.4	.1	.0	.0	10.3

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.7	*	.0	.0	.0	2.5
1-2	1.0	6.8	.7	.0	.0	.0	8.4
3-4	.2	3.4	1.7	.2	.0	.0	5.4
5-6	.1	1.1	.8	.0	.0	.0	2.0
7	.0	*	.4	.0	.0	.0	.4
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.0	13.0	3.4	.2	.0	.0	18.8

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	2.6	*	.0	.0	.0	3.5
1-2	.7	6.2	1.4	.0	.0	.0	10.2
3-4	.1	3.1	2.9	*	.0	.0	6.1
5-6	.0	.7	1.4	.0	.0	.0	2.1
7	.0	.1	.4	.0	.0	.0	.5
8-9	.0	.1	*	.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-	.0	.0	.0	.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	14.9	5.4	.1	.0	.0	22.8

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	1.0	.0	.0	.0	.0	1.3	
1-2	.4	3.2	.5	.0	.0	.0	4.1	
3-4	.2	1.2	1.0	.0	.0	.0	2.2	
5-6	.0	.2	.1	.0	.0	.0	.3	
7	.0	.0	.2	.0	.0	.0	.2	
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-	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	5.6	1.9	.0	.0	.0	9.2	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	12.4	10.1	.3	.0	.0	.0	22.9	
1-2	4.5	31.2	4.2	.0	.0	.0	39.9	
3-4	.9	13.0	10.5	.3	.0	.0	24.7	
5-6	.1	3.4	2.9	.3	.0	.0	6.7	
7	.0	.7	2.0	.2	.0	.0	2.9	
8-9	.0	.1	.4	.2	.0	.0	.7	
10-11	.0	.1	.0	.1	.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	17.9	58.5	22..	1.1	.0	.0	100.0	1757

PERIOD: (OVER-ALL) 1949-1 75 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	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	14.5	16.7	7.7	2.7	1.1	.4	.1	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	2454	3
6-7	.2	2.6	7.7	8.0	4.0	1.1	.7	.1	.1	0	0	.0	.0	.0	.0	.0	.0	.0	.0	1249	5
8-9	*	.6	2.8	3.4	1.8	.7	.3	*	*		*	.0	.0	.0	.0	.0	.0	.0	.0	498	5
10-11	.0	.4	1.1	1.1	.5	.3	.2	.1	*	.1	.0	.0	.	.0	.0	.0	.0	.0	.0	190	5
12-13	.0	.0	.2	.2	.1	*	*	*		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	95	5
>13	.0	.0	.0	.0	.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	54	6
INDET	5.1	1.4	2.0	1.4	.6	.2	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	561	2
TOTAL	517	1602	1985	1170	522	177	90	17	13	12	3	0	0	0	0	0	0	0	0	5108	4
PCT	10.1	19.6	21.0	22.9	10.2	3.5	1.8	.3	.3	.2	.1	.0	.0	.	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1977-1979

AREA 0010 NICARAGUA SW COAST
9.5N 86.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	5.3	3.2	.6	.0	.0	.0	.0	8.9	7.2	5.6	.0	.0	.4	.4		77.6
NE	2.9	3.9	1.3	.0	.0	.0	.0	7.5	4.7	5.1	.4	.0	.0	.0		82.9
E	3.6	2.8	1.5	.0	.0	.0	.0	7.9	3.9	5.3	.1	.0	.4	.0		82.8
SE	5.2	2.7	2.4	.1	.0	.0	.0	10.1	5.0	8.0	.0	.0	.0	.5		77.1
S	5.6	3.9	2.5	.0	.0	.1	.0	11.8	4.7	4.6	.0	.0	.1	.1		78.4
SW	7.5	3.7	2.2	.0	.0	.0	.0	13.5	5.0	3.6	*	.0	*	.0		77.3
W	6.0	4.6	2.1	.0	.0	.0	.1	12.6	6.1	3.7	.1	.0	.2	.1		77.3
NW	5.6	3.9	1.2	.0	.0	.0	.0	10.5	4.9	3.7	.1	.0	.4	.0		80.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	1.3	1.5	.4	.0	.0	.0	.0	3.6	3.0	5.3	.2	.0	.4	.0		87.3
TOT PCT	5.5	3.8	1.9	.0	.0	.0	*	11.0	5.3	4.4	.1	.0	.2	.1		79.2
TOT OBS:	6241															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00E03	4.0	3.3	1.2	.0	.0	.0	.0	8.5	4.7	2.3	.1	.0	.3	.1		84.4
04E09	6.2	4.6	2.0	.0	.0	.0	.0	12.4	5.0	12.2	.1	.0	.3	.1		70.5
10E15	6.7	4.2	2.3	.0	.0	.1	.1	13.0	6.3	3.6	.1	.0	.2	.1		77.2
16E21	4.8	3.1	1.8	.0	.0	.0	.0	9.6	5.1	.4	.1	.0	.1	.0		84.6
TOT PCT	5.4	3.8	1.9	.0	.0	.0	*	10.9	5.2	4.5	.1	.0	.2	.1		79.2
TO OBS:	6422															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)						
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	06	09	12	15	18	21
N	.8	2.4	.4	*	.0	.0		3.6	6.9	1.8	.7	2.7	5.4	8.0	5.1	2.2
NE	.5	3.4	1.4	.2	*	.0		5.5	9.2	3.4	2.8	3.2	3.7	9.5	7.7	6.2
E	.8	4.0	2.0	.1	*	.0		7.0	9.1	5.4	6.7	6.8	7.7	9.8	6.8	4.0
SE	1.0	4.7	1.1	*	.0	.0		6.8	7.2	7.7	6.4	7.6	10.7	4.8	7.2	6.9
S	1.5	7.1	2.0	.1	.0	.0		11.2	7.8	13.4	13.4	12.5	9.1	8.9	11.2	9.7
SW	2.0	13.7	5.2	.2	*	.0		21.1	8.8	24.1	25.5	21.3	21.3	18.9	19.5	20.2
W	2.3	17.6	8.0	*	.0	.0		28.0	9.0	29.8	26.1	28.9	22.4	30.5	21.5	25.8
NW	1.0	5.7	1.9	.1	.0	.0		8.6	8.2	6.6	6.2	8.1	10.1	10.6	8.4	9.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.0							8.0	.0	7.6	11.0	9.6	14.2	7.7	7.3	6.7
TOT OBS	1274	4224	1584	60	4	0	7130		7.9	1541	109	1599	154	1612	249	1726
TOT PCT	17.9	59.2	21.9	.1	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	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	1.1	.4	.0	.0		3.6	6.9	1.8	2.7	5.6	4.9
NE	2.2	2.7	.6	*	.0		5.5	9.3	3.4	3.2	4.0	7.8
E	2.7	3.6	.7	*	.0		7.0	9.1	5.5	6.6	6.8	8.9
SE	3.7	2.5	.2	.0	.0		6.8	7.2	7.5	7.8	5.2	6.8
S	5.2	5.5	.5	*	.0		11.2	7.8	13.8	12.3	9.2	9.8
SW	7.9	12.7	1.0	.1	.0		21.1	8.8	24.2	21.3	19.0	23.5
W	9.6	17.1	1.3	.0	.0		28.0	9.0	29.6	27.8	29.4	25.2
NW	3.7	4.6	.3	.0	.0		8.5	8.2	6.5	8.2	10.3	6.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	8.0						8.0	.0	3.9	10.0	7.5	6.9
TOT OBS	3795	3587	326	8	0	7130		7.9	1650	1753	1731	1896
TOT PCT	45.0	50.3	4.6	.1	.0		100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1952-1974
(OVER-ALL) 1877-1974

AREA 00.0 NICARAGUA SW COAST
9.5° 86.7W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	7.9	9.8	60.5	21.2	.7	.0	.0	7.9	100.0	1650
06&09	10.0	9.5	59.7	21.3	.6	.1	.0	7.6	100.0	1753
12&15	7.5	8.6	60.1	22.6	1.0	.0	.0	8.0	100.0	1831
18&21	6.9	11.2	54.2	22.5	1.1	.1	.0	8.0	100.0	1696
TOT	573	701	4228	1564	60	4	0	7.9		7130
PCT	8.0	9.8	59.3	21.9	.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	.2	.7	1.9	1.1		5.9
NE	.4	1.0	2.4	1.7		5.6
E	.6	1.5	3.9	1.2		5.5
SE	.6	1.3	2.6	1.8		5.7
S	.8	1.9	5.3	3.7		6.1
SW	.8	2.5	10.2	7.6		6.4
W	2.0	4.3	13.2	9.8		6.1
NW	.8	1.3	3.6	2.4		5.9
VAR	.0	.0	.0	.0		.0
CALM	.9	1.3	3.7	1.5		5.4
TOT OBS	356	803	2417	1541	5137	6.0
TOT PCT	6.9	15.6	47.1	30.0	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	MM <5/8 MY HGT	TOTAL OBS
N	.2	*	.1	.5	.6	.2	.1	*	.0	.0	2.2	
NE	.4	*	.2	.4	.7	.3	.1	*	.0	*	3.4	
E	.1	*	.1	.7	1.0	.3	.1	*	*	.1	4.7	
SE	*	*	.3	.7	1.0	.4	.2	*	.0	.0	3.7	
S	.1	.2	.4	1.4	2.0	.6	.3	.1	*	*	6.1	
SW	.3	.1	1.3	3.5	4.0	1.3	.4	.1	*	*	9.9	
W	.5	.2	1.3	4.2	5.0	1.6	.6	.2	*	.1	15.7	
NW	.1	*	.2	1.0	1.4	.6	.2	*	*	*	4.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	*	.2	.6	1.0	.3	.2	.1	*	.1	4.9	
TOT OBS	69	31	205	675	855	787	108	28	9	17	2853	5137
TOT PCT	1.3	.6	4.0	13.1	16.6	5.6	2.1	.5	.2	.3	55.5	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >5070	= OR >0
= OR >6500	.5	.5	.5	.5	.5	.5	.5	.5
= OR >5000	.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0
= OR >3500	2.8	3.0	3.1	3.1	3.1	3.1	3.1	3.1
= OR >2000	7.4	8.4	8.6	8.7	8.7	8.7	8.7	8.7
= OR >1000	21.3	24.6	25.4	25.5	25.6	25.6	25.6	25.6
= OR >600	31.2	37.3	38.3	38.5	38.6	38.6	38.7	38.7
= OR >300	33.5	40.8	42.1	42.4	42.5	42.5	42.6	42.6
= OR >150	33.7	41.3	42.6	42.9	43.1	43.1	43.2	43.2
= OR > 0	34.1	42.1	43.6	44.1	44.2	44.3	44.4	44.5
TOTAL	1783	2205	2282	2307	2316	2319	2325	2327

TOTAL NUMBER OF OBS: 5234 PCT FREQ MM <5/8: 55.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
2.3	7.9	14.7	16.2	17.9	9.9	11.1	5.6	14.5	.8	5557

SEPTEMBER

PERIOD: (PRIMARY) 1952-1976
(OVER-ALL) 1977-1979

AREA 0010 NICARAGUA SW COAST
9.5N 86.7W

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	*	*	*	.1	.1	*	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	*	*	.0	.0	*	
	TOT %	.0	.0	*	*	*	.1	.1	*	.0	.0	.3	
1/2<1	PCP	.0	.0	*	*	*	*	.1	*	.0	.0	.2	
	NO PCP	.0	.0	.0	*	.0	*	*	.0	.0	.0	*	
	TOT %	.0	.0	*	*	*	.1	.1	*	.0	.0	.2	
1<2	PCP	*	*	*	*	*	*	.2	.1	.0	*	.5	
	NO PCP	*	.0	.0	.0	.0	.1	*	*	.0	.0	.2	
	TOT %	*	*	*	*	*	.2	.2	.1	.0	*	.7	
2<5	PCP	.1	.1	.1	*	.1	.3	.3	.1	.0	*	1.2	
	NO PCP	*		.1	*	.2	.2	.1	.1	.0	*	.6	
	TOT %	.1	.1	.1	.1	.3	.4	.4	.2	.0	.1	1.9	
5<10	PCP	.1	.1	.2	.2	.5	1.2	1.5	.4	.0	*	4.4	
	NO PCP	.3	.6	.4	.7	.8	2.0	2.4	.7	.0	.5	8.5	
	TOT %	.4	.7	.7	.9	1.4	3.2	3.9	1.1	.0	.5	12.9	
10+	PCP	.1	.2	.2	.3	.5	1.1	1.5	.3	.0	.2	4.2	
	NO PCP	3.2	4.4	6.2	5.2	8.7	16.0	22.2	7.0	.0	6.8	79.8	
	TOT %	3.3	4.7	6.4	5.5	9.3	17.1	23.7	7.3	.0	6.9	84.1	
	TOT OBS												6257
	TOT PCT	3.4	5.6	7.3	6.6	11.0	21.0	28.4	9.7	.0	7.6	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	*	*	*	.0	.0	.0	*	
	4-10	.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	.1	*	.0	.0	.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	*	*	*	*	.0	*	*	.0		.1	
	11-21	.0	.0	*	.0	*	*	.1	*	.0		.1	
	22+	.0	.0	.0	.0	.0	*	.0	.0	.0		*	
	TOT %	.0	*	*	*	*	.1	.1	*	.0	.0	.3	
1<2	0-3	*	*	.0	*	.0	.0	*	*	.0	*	.1	
	4-10	*	*	*	.1	*	.1	.1	.1	.0		.5	
	11-21	.0	*	.0	*	*	.1	.1	*	.0		.3	
	22+	.0	.0	.0	.0	*	*	.0	.0	.0		*	
	TOT %	*	*	*	.1	.1	.2	.3	.1	.0	*	.9	
2<5	0-3	*	*	.0	*	*	*	*	*	.0	.1	.3	
	4-10	.1	.1	.1	*	.3	.3	.2	.2	.0		1.3	
	11-21	*	*	*	*	*	.2	.2	*	.0		.6	
	22+	.0	*	*	.0	*	*	*	.0	.0		.1	
	TOT %	.2	.2	.1	.1	.4	.5	.5	.2	.0	.1	2.3	
5<10	0-3	.1	*	.1	.1	.1	.1	.2	*	.0	.5	1.2	
	4-10	.3	.4	.5	.5	.9	1.9	2.1	.7	.0		7.2	
	11-21	.1	.2	.2	.3	.5	1.2	1.5	.3	.0		4.1	
	22+	.0	.1	*	*	*	*	.1	*	.0		.2	
	TOT %	.4	.7	.8	1.0	1.4	3.2	3.8	1.0	.0	.5	12.8	
10+	0-3	.6	.4	.5	.4	1.4	1.7	2.0	.9	.0	7.2	15.7	
	4-10	2.2	2.9	3.5	4.0	6.3	11.2	15.1	4.7	.0		49.8	
	11-21	.4	1.2	1.9	.7	1.5	3.6	6.2	1.6	.0		17.3	
	22+	*	.1	.1	*	*	.2	*	.1	.0		.6	
	TOT %	3.2	4.6	6.3	5.5	9.2	16.9	23.3	7.2	.0	7.2	83.4	
	TOT OBS												6564
	TOT PCT	3.8	5.5	7.2	6.8	11.2	20.9	28.0	8.6	.0	7.8	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1977-1979

TABLE 10

AREA 0010 NICARAGUA SW COAST
9.5N 86.7W

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	MM <5/8 ANY HGT	TOTAL OBS
00E03	1.1	.7	3.5	12.1	16.1	4.9	1.7	.7	.1	.4	41.3	58.7	1382
06E09	1.7	.5	3.4	13.1	16.1	5.5	2.2	.4	.3	.6	43.8	56.2	1208
12E15	1.2	.6	4.2	14.3	17.8	5.3	2.0	.4	.1	.1	45.9	54.1	1422
18E21	1.3	.5	4.0	11.8	15.5	5.9	2.5	.6	.1	.2	42.4	57.6	1384
TOT	73	31	206	691	896	291	111	26	9	17	2340	3056	5396
PCT	1.3	.6	3.8	12.8	16.6	5.4	2.1	.5	.2	.3	43.4	56.6	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	.3	.3	.8	1.9	10.2	86.6	1562
06E09	.2	.4	1.0	2.1	14.8	81.4	1631
12E15	.3	.2	.6	3.1	14.1	81.6	1736
18E21	.5	.2	.9	2.0	11.9	84.5	1748
TOT	22	19	57	153	854	5598	6757
PCT	.3	.3	.8	2.3	12.9	83.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,MM >W/B),BY HOUR

HOUR (GMT)	<150 <5CYD	<600 <1	<1000 <2	1000+ AND5+	MM <5/8 AND 5+	TOTAL OBS
00E03	1.0	5.4	18.5	23.9	57.6	1348
06E09	1.7	5.6	20.4	28.7	54.9	1170
12E15	1.2	6.4	21.9	25.9	52.2	1369
18E21	1.3	6.1	18.6	24.9	56.4	1347
TOT	68	311	1040	1301	2893	5234
PCT	1.3	5.9	19.9	24.9	55.3	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	.4	.2	*	.0	39	.7
85/89	.0	.0	.0	*	1.9	4.2	1.2	.2	376	6.9
80/84	.0	.0	.0	*	.8	15.7	32.1	6.4	2980	55.0
75/79	.0	.2	.0	.0	*	1.8	18.0	16.4	1963	36.2
70/74	.0	.0	.0	.0	.0	*	2	.9	59	1.1
TOTAL	0	0	0	9	133	1167	2791	1297	5417	100.0
PCT	.0	.0	.0	.2	2.5	21.5	51.5	23.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.1	.1	.1	*	.0	.1	.2	.1	.0	.1
	.4	.8	.9	.5	.6	1.0	1.6	.8	.0	.4
	2.4	3.5	4.6	3.7	5.9	10.3	14.9	4.7	.0	4.9
	.9	1.0	1.6	1.8	4.5	9.3	12.0	2.9	.0	2.2
	.1	.1	.1	.1	.1	.3	.3	.1	.0	*
	3.9	5.4	7.3	6.1	11.1	21.1	28.9	8.5	.0	7.6

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	92	86	84	81	77	75	69	80.5	1681
06E09	89	84	83	80	76	74	71	79.6	1745
12E15	89	84	83	79	76	74	69	79.4	1849
18E21	94	90	88	82	77	74	72	82.3	1921
TOT	94	89	86	80	76	74	69	80.5	7236

TABLE 16

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	1.2	23.3	55.9	19.5	84	1347
06E09	.0	.0	.4	13.5	57.0	26.9	86	1374
12E15	.0	.1	.4	13.9	54.7	30.9	86	1442
18E21	.0	.4	7.6	36.9	39.4	15.7	81	1386
TOT	0	9	134	1211	2871	1323	84	5549

SEPTEMBER

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1877-1979

AREA 0010 NICARAGUA SW COAST
9.5N 86.7W

TABLE 17

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

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	N FOG	%O FOG
14/15	.0	.0	.0	.0	*	*	.0	3	.0	.1
11/13	.0	.0	.0	.0	.1	*	.0	5	.0	.1
9/10	.0	.0	.0	.1	.1	.1	*	20	.0	.3
7/8	.0	.0	*	.3	.3	.3	*	57	.0	1.0
6	.0	.0	.0	.2	.5	.2	.0	44	.0	.8
5	.0	.0	.1	.4	.7	.1	.0	82	.0	1.4
4	.0	.0	.2	.9	1.0	.2	.0	125	.0	2.2
3	.0	*	.4	.9	1.1	*	.0	140	.0	2.4
2	.0	*	.6	2.7	1.2	*	.0	266	.0	4.6
1	.0	.0	1.3	3.6	.4	.0	.0	346	*	6.0
0	.0	.2	3.8	7.5	.6	*	.0	698	.1	12.0
-1	.0	.1	5.5	6.9	.3	.0	.0	739	*	12.7
-2	.0	.3	9.1	7.1	.1	.0	.0	962	*	16.6
-3	.0	.3	7.8	3.6	.1	.0	.0	700	.0	12.1
-4	*	.2	7.6	2.2	*	.0	.0	616	.0	10.6
-5	.0	.1	5.5	1.4	*	.0	.0	444	.0	7.7
-6	*	.0	2.8	.3	*	.0	.0	229	.0	3.9
-7/-8	*	1.4	2.2	.2	.0	.0	.0	222	.1	3.8
-9/-10	.1	.7	.4	*	.0	.0	.0	67	.0	1.2
-11/-13	.1	.2	.1	.0	.0	.0	.0	20	.0	.3
-14/-16	.0	*	*	.0	.0	.0	.0	2	.0	*
TOTAL	10	2751		411					6	5792
	922		2244		57			5798		
PCT	.2	4.6 47.4		38.7	7.1	1.0	.1	100.0	.1	99.9

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

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

%

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.7	.0	.0	.0	.0	1.1
1-2	.3	1.3	.2	.0	.0	.0	1.8
3-4	.1	.3	.3	.0	.0	.0	.7
5-6	.0	.2	*	.0	.0	.0	.2
7	.0	.0	*	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	*
10-11	.0	.0	*	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	2.5	.6	*	.0	.0	3.9

%E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.6	.1	.0	.0	.0	.8
1-2	.1	1.6	.2	.0	.0	.0	1.9
3-4	.1	.7	.5	.1	.0	.0	1.4
5-6	.0	*	.2	*	.0	.0	.2
7	.0	*	.1	*	.0	.0	.1
8-9	.0	*	*	.0	.0	.0	*
10-11	.0	.0	*	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.3	1.3	.2	.0	.0	4.1

%

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.5	.1	.0	.0	.0	.7
1-2	.4	1.7	.7	.0	.0	.0	2.8
3-4	.0	1.2	.9	.0	.0	.0	2.1
5-6	.0	.1	.3	.0	.0	.0	.5
7	.0	*	.4	.0	.0	.0	.4
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	3.6	2.4	.1	.0	.0	6.5

%E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.8	.0	.0	*	.0	1.0
1-2	.2	2.4	.3	.0	.0	.0	2.8
3-4	.1	.9	.4	.0	.0	.0	1.4
5-6	.0	*	.1	*	.0	0	.1
7	.0	.2	.0	.0	.0		.2
8-9	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	.9	*	.0	.0	5.7

PERIOD: (OVER-ALL) 1963-1979 SEPTEMBER AREA 0010 NICARAGUA SW COAST

TABLE 18 (CONT) 9.5N 86.7W

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.3	.1	.0	.0	.0	1.7
1-2	.4	3.5	.9	.0	.0	.0	4.8
3-4	.1	1.7	1.1	.0	.0	.0	2.9
5-6	.1	.5	.4	.0	.0	.0	.9
7	.0	*	.2	.0	.0	.0	.2
8-9	.0	.1	.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	.9	7.0	2.6	.0	.0	.0	10.4

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	6.8	.7	.0	.0	.0	8.8
1-2	1.0	7.6	1.7	.0	.0	.0	9.9
3-4	.1	4.6	2.7	.1	.0	.0	7.5
5-6	.0	.8	1.9	.1	.0	.0	2.8
7	.0	*	.3	.1	.0	.0	.4
8-9	.0	.0	.1	*	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.4	19.0	6.7	.3	.0	.0	28.2

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	2.4	.1	.0	.0	.0	3.3
1-2	.7	9.0	3.0	.0	.0	.0	12.6
3-4	.3	5.3	4.3	*	.0	.0	10.5
5-6	.1	1.2	2.9	.1	.0	.0	4.2
7	.0	.2	.9	.0	.0	.0	.9
8-9	.0	.1	*	*	.0	.0	.2
10-11	.0	.1	.4	.0	.0	.0	.6
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	18.1	11.0	.2	.0	.0	31.1

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	1.0	.1	.0	.0	.0	1.4	
1-2	.3	2.6	.9	.0	.0	.0	3.8	
3-4	.0	1.5	1.1	*	.0	.0	2.6	
5-6	.0	.3	.4	.0	.0	.0	.7	
7	.0	*	.1	.0	.0	.0	.1	
8-9	.6	.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	.1	.0	.0	
41-48	.0	.0	.0	.0	.1	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.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	5.4	2.6	*	.0	.0	8.6	93.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	10.5	9.3	.4	.0	.0	.0	20.2	
1-2	3.4	28.4	7.5	.0	.0	.0	39.4	
3-4	.9	15.7	11.0	.3	.0	.0	27.7	
5-6	.1	3.0	5.9	.4	.0	.0	9.4	
7	.0	.5	1.8	.1	.0	.0	2.4	
8-9	.0	.1	.4	.1	.0	.0	.6	
10-11	.0	.0	.1	.1	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.1	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1597
TOT PCT	14.8	57.1	27.2	.9	.0	.0	100.0	

PERIOD: (OVER-ALL) 1965-1979 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.0	15.1	17.7	7.8	2.7	1.0	..	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2375	3
6-7	.2	1.9	8.2	9.4	3.3	1.2	.5	.1	.1	*	.0	*	.0	.0	.0	.0	.0	.0	.0	1170	5
8-9	.1	.7	2.5	3.4	2.6	.5	.2	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	491	5
10-11	.0	.5	1.2	1.1	.7	.3	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	186	5
12-13	.0	.0	.9	.6	.2	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	87	5
>13	.0	.0	.0	.3	.3	.1	*	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	39	7
INDET	4.9	1.9	2.4	1.2	.6	.3	.1	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	535	2
TOTAL	442	955	1501	1104	494	175	60	24	16	3	1	1	0	0	0	0	0	0	0	4483	4
PCT	9.1	19.6	32.0	22.7	10.1	3.6	1.2	.5	.3	.1	*	*	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1877-1979

AREA 0010 NICARAGUA SW COAST 9.5N 86.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
N	4.8	2.7	1.2	.0	.0	.0	.0	6.7	5.2	3.3	.0	.0	.0	.0		82.7
NE	2.2	1.5	.5	.0	.0	.0	.0	4.1	3.1	4.9	.0	.0	.0	.0		88.3
E	3.8	1.5	.9	.0	.0	.0	.0	6.5	5.4	5.2	.0	.0	.2	.2		82.3
SE	6.0	3.1	1.5	.0	.0	.0	.0	10.5	7.3	6.3	.0	.0	.1	.0		75.6
S	8.7	4.7	2.5	.0	.0	.2	.0	15.4	9.1	3.8	.1	.0	.4	.2		71.7
SW	8.5	4.6	3.1	.0	.0	.0	.0	16.0	7.1	2.0	.3	.0	.4	.1		74.6
W	6.5	3.9	2.3	.0	.0	.0	.1	12.5	6.8	3.4	.3	*	.1	.0		77.2
NW	4.9	3.6	1.6	.0	.0	.0	.0	10.1	6.4	3.1	.1	*	.4	.0		80.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	1.9	1.3	.5	.0	.0	.0	.0	3.7	4.9	4.5	.0	.0	.5	.3		86.9
TOT PCT	6.1	3.5	2.0	.0	.0	.0	*	11.4	6.3	3.5	.2	*	.3	.1		78.4
TOT OBS:	6369															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
00E03	4.6	3.1	2.1	.0	.0	.0	.0	9.4	5.7	2.9	.1	.0	.2	.0		81.8
06E09	6.3	4.4	2.2	.0	.0	.0	.0	12.9	6.6	10.1	.2	.0	.4	.1		70.6
12E15	8.2	5.2	2.2	.0	.0	.0	.1	13.5	7.4	2.7	.1	.0	.1	.1		76.4
18E21	5.1	3.1	1.6	.0	.0	.0	.0	9.7	5.6	.2	.2	.1	.3	.1		83.9
TOT PCT	6.1	3.5	2.0	.0	.0	.0	*	11.4	6.3	3.5	.2	*	.3	.1		78.3
TOT OBS:	6547															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.9	3.2	.9	*	.0	.0		5.1	7.4	4.2	2.8	3.1	7.1	7.0	3.6	6.1	5.5
NE	.7	4.2	2.6	.1	.0	.0		7.6	9.3	6.4	7.7	5.3	11.2	8.5	8.7	7.8	6.0
E	.6	4.2	2.0	.1	.0	.0		7.2	8.9	6.1	6.0	6.7	2.8	8.6	2.8	8.8	3.4
SE	.9	3.6	.9	.1	.0	.0		5.5	7.5	5.5	5.8	6.6	6.7	4.4	5.1	5.4	6.9
S	.9	5.2	2.6	.1	.0	.0		8.9	9.1	11.7	8.3	9.2	9.1	6.7	4.9	8.2	9.2
SW	1.4	12.7	8.0	.4	.0	.0		22.4	10.0	24.8	23.8	23.9	20.3	19.3	24.0	21.1	26.6
W	1.9	16.3	10.3	.4	*	.0		28.9	10.0	28.2	30.4	30.1	27.4	30.0	35.4	26.9	31.0
NW	.7	4.0	2.4	.1	*	.0		8.3	8.8	6.8	7.9	6.6	9.3	11.3	6.9	8.9	7.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.2							6.2	.0	6.2	6.9	6.7	6.3	6.3	8.6	5.5	6.7
TOT OBS	1024	3632	2088	97	1	0	7032		8.8	1574	124	1768	127	1595	152	1719	174
TOT PCT	14.5	54.5	29.7	1.2	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.7	2.2	.7	.0	.0		5.1	7.4	4.1	3.4	6.7	6.1
NE	2.7	4.7	.6	.0	.0		7.6	9.3	6.5	5.7	8.5	9.3
E	2.8	3.9	.5	*	.0		7.2	8.9	6.0	6.4	8.1	8.3
SE	2.6	2.5	.2	*	.0		5.5	7.5	5.6	6.6	4.5	5.5
S	3.1	5.0	.7	.0	.0		8.8	9.1	11.5	9.2	6.5	8.3
SW	6.1	14.2	2.1	*	.0		22.4	10.0	24.7	23.5	19.7	21.6
W	8.0	18.2	2.6	.1	.0		28.9	10.0	28.4	29.9	30.4	27.2
NW	3.2	4.6	.4	*	.0		8.3	8.8	6.9	6.8	11.0	8.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	6.2						6.2	.0	6.4	8.3	4.6	5.4
TOT OBS	2648	3659	515	10	0	7032		8.8	1698	1695	1747	1892
TOT PCT	37.7	54.9	7.3	.1	.0		100.0		100.0	100.0	100.0	100.0

OCTOBER

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1977-1979

AREA 0010 NICARAGUA SW COAST
9.5N 86.7W

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
00E03	6.4	6.5	53.6	30.0	1.5	.0	.0	6.8	100.0	1698
04E09	8.3	7.2	54.0	27.3	1.2	.0	.0	6.4	100.0	1695
10E15	4.6	4.7	55.0	30.4	1.2	.1	.0	6.0	100.0	1747
16E21	5.4	6.1	53.5	30.9	1.0	.0	.0	6.9	100.0	1892
TOT	433	541	3832	2068	87	1	0	6.8		7032
PCT	6.2	8.4	54.5	29.7	1.2	*	.0		100.0	

TABLE 5

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

WND DIR	0+0	1+6	6+7	8 & OVSCD	TOTAL OBS	MEAN CLOUD COVER
N	.9	1.2	2.1	1.9		5.0
NE	1.7	2.0	3.1	1.3		4.7
E	1.1	1.6	3.5	1.5		5.1
SE	.5	1.0	2.4	1.4		5.0
S	.6	1.2	3.4	1.2		6.1
SW	1.2	2.4	6.7	4.2		6.7
W	1.7	4.2	13.9	9.9		6.1
NW	.7	1.4	4.2	2.0		5.8
VAR	.0	.0	.0	.0		.0
CALM	1.1	1.2	2.5	1.1		5.0
TOT OBS	503	698	2393	1522	5334	5.8
TOT PCT	9.5	14.9	45.3	28.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,HH 24/8) AND OCCURRENCE OF HH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	HH <5/8 ANY HGT	TOTAL OBS
N	*	.0	.1	.4	.5	.2	.1	*	.0	*	3.6	
NE	*	.0	.1	.6	.7	.3	.2	*	*	*	6.1	
E	.1	*	.2	.7	1.0	.4	.2	*	*	.1	5.3	
SE	*	.1	.1	.6	.9	.4	.2	*	*	.0	2.9	
S	.1	.2	.5	1.6	1.4	.5	.1	.1	.0	.0	4.7	
SW	.5	.3	1.1	3.9	4.2	1.6	.5	.1	*	.1	9.8	
W	.1	.2	1.4	4.2	4.5	1.4	.7	.3	.1	.2	19.5	
NW	.1	.0	.3	1.7	1.1	.6	.2	*	.0	*	4.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.2	.5	.6	.2	.1	.0	*	.1	4.0	
TOT OBS	60	34	219	732	849	293	113	33	13	18	2930	5334
TOT PCT	1.5	.6	4.1	13.8	16.0	5.5	2.1	.6	.2	.3	55.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (HH 24/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) ≥ 0A >10	≥ 0B >5	≥ 0C >2	≥ 0D >1	≥ 0E >1/2	≥ 0F >1/4	≥ 0G 350*G	≥ 0H >0
≥ 0A >4500	.1	.1	.6	.6	.6	.6	.6	.6
≥ 0B >3000	.9	1.1	1.2	1.2	1.2	1.2	1.2	1.2
≥ 0C >1500	2.6	3.2	3.3	3.3	3.3	3.3	3.3	3.3
≥ 0D >1000	6.6	8.2	8.5	8.7	8.7	8.7	8.7	8.7
≥ 0E >500	19.6	23.7	24.3	24.6	24.6	24.6	24.7	24.7
≥ 0F >300	29.4	36.6	37.9	38.3	38.4	38.4	38.4	38.4
≥ 0G >100	31.5	40.2	41.8	42.4	42.4	42.5	42.5	42.5
≥ 0H >150	31.7	40.7	42.4	43.0	43.0	43.1	43.1	43.1
≥ 0I > 0	32.0	41.7	43.7	44.3	44.4	44.5	44.5	44.6
TOTAL	1743	2268	2378	2414	2414	2423	2425	2426

TOTAL NUMBER OF OBS: 5444

PCT FREQ HH <5/8: 55.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OVSCD	TOTAL OBS
3.0	5.1	17.5	15.7	17.9	10.2	10.5	9.6	14.1	1.0	5745

OCTOBER

PERIOD: (PRIMARY) 1953-1975
(OVER-ALL) 1977-1979

AREA 0010 NICARAGUA SW COAST
9.5N 86.7W

TABLE 5

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	.0	*	*	*	*	*	*	.0	.0	.1	
	NO PCP	.0	*	.0	.0	*	*	*	.0	.0	.0	.1	
	TOT %	*	*	*	*	.1	*	.1	*	.0	.0	.2	
1/2<1	PCP	*	.0	*	.0	*	*	*	*	.0	.0	.2	
	NO PCP	.0	*	.0	*	.0	*	*	.0	.0	.0	*	
	TOT %	*	*	*	*	*	*	*	*	.0	.0	.2	
1<2	PCP	*	*	.0	*	.1	.2	.1	.1	.0	.0	.6	
	NO PCP	.1	.1	*	.0	*	*	*	*	.0	.0	.2	
	TOT %	*	*	*	*	.1	.1	.2	.1	.0	.0	.2	
2<5	PCP	*	.1	*	.1	.2	.5	.6	.1	.0	*	1.6	
	NO PCP	*	*	*	*	.1	.2	.2	.1	.0	.0	.8	
	TOT %	.1	.1	.1	.1	.3	.7	.7	.2	.0	.1	2.4	
5<10	PCP	.2	.1	.2	.2	.6	1.7	1.8	.4	.0	.1	5.2	
	NO PCP	.4	.4	.3	.3	1.0	2.4	3.0	1.4	.0	.4	9.1	
	TOT %	.6	.4	.5	.7	1.7	4.2	4.8	1.8	.0	.4	14.4	
10+	PCP	.1	.1	.3	.2	.4	1.1	1.0	.3	.0	.1	3.7	
	NO PCP	4.6	4.5	6.7	4.6	6.2	16.1	22.0	6.7	.0	5.2	78.5	
	TOT %	4.8	7.0	7.0	4.7	6.6	17.1	23.0	6.9	.0	5.3	82.2	
	TOT OBS												6344
	TOT PCT	5.2	7.7	7.5	5.5	8.3	22.4	28.4	8.2	.0	5.6	100.0	

TABLE 6

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING 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	
	4-10	*	*	*	*	*	*	*	*	.0		.2	
	11-21	*	*	*	.0	*	*	*	*	.0		.1	
	22+												
	TOT %	*	*	*	*	*	*	*	*	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	4-10	*	*	*	.0	*	*	*	*	.0		.1	
	11-21	.0	*	*	.0	*	*	*	*	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	*	*	*	*	*	*	.0	.0	.2	
1<2	0-3	.0	.0	.0	*	*	*	*	*	*	.0	.1	
	4-10	*	*	.0	*	*	*	.1	*	*		.3	
	11-21	*	*	*	*	*	*	*	*	*		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	.0	.0	.1	.2	.1	*	.0	.0	.4	
2<5	0-3	*	*	.0	.0	.0	*	*	*	.0	.1	.2	
	4-10	.1	.1	*	*	.1	.3	.3	.1	.0		1.1	
	11-21	*	*	*	*	.1	.4	.4	.1	.0		1.1	
	22+	.0	.0	*	*	*	*	*	.0	.0		.1	
	TOT	.1	.1	.1	.1	.3	.8	.8	.2	.0	.1	2.4	
5<10	0-3	.1	*	.1	.1	.1	.2	.2	.1	.0	.5	1.3	
	4-10	.3	.3	.3	.3	.8	2.1	2.3	.6	.0		6.8	
	11-21	.2	.2	.2	.2	.7	2.1	2.2	.6	.0		6.0	
	22+	.0	*	.0	*	*	.1	.1	*	.0		.3	
	TOT %	.6	.5	.5	.7	1.7	4.3	4.8	1.3	.0	.5	14.4	
10+	0-3	.4	.2	.4	.3	.4	1.1	1.6	.4	.0	5.5	12.7	
	4-10	2.4	3.0	3.4	3.0	4.2	10.1	13.4	4.3	.0		45.8	
	11-21	1.9	2.6	3.4	1.8	3.6	5.5	7.6	1.9	.0		22.4	
	22+	*	.1	.1	*	*	.2	.3	*	.0		.8	
	TOT %	4.5	7.0	6.3	5.6	9.5	16.9	22.9	6.6	.0	5.5	81.6	
	TOT OBS												6599
	TOT PCT	5.2	7.7	7.4	5.5	8.7	22.2	28.9	8.3	.0	6.1	100.0	

PERIOD: (PRIMARY) 1957-1974
(SUPPLEMENTAL) 1977-1979

AREA 0010 NICARAGUA SW COAST
9.5N 86.7W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,HM 20/81 AND OCCURRENCE OF HM <5/8 BY HOUR

HOUR (GMT)	0-4	5-9	10-19	20-29	30-49	50-99	100-149	150-199	200-299	300-499	500-999	1000-1499	1500-1999	2000-2999	3000-4999	5000-6499	6500-7999	8000 +	HM <5/8 ANY HGT	TOTAL OBS
	164	249	569	666	1149	1699	4496	6666	7999											
00E07	1.1	.6	7.5	13.5	13.6	6.0	2.2	.5	.0	.3	39.6								60.4	1452
08E09	2.3	.4	5.9	14.2	16.5	6.1	2.2	.9	.2	.5	47.2								52.8	1285
12E15	1.5	.6	5.0	15.7	14.4	5.1	1.9	.5	.3	.3	45.5								54.5	1467
19E21	1.1	.4	3.9	11.4	16.5	6.0	2.0	.5	.4	.3	42.5								57.5	1456
TOT	91	74	225	762	862	249	135	73	33	38	2439								2222	5660
PCT	2.4	1.0	6.0	13.3	15.4	5.3	2.2	.6	.2	.3	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	.1	.1	.9	2.2	12.8	84.0	1646
04E09	.2	.1	1.0	3.1	16.9	78.8	1635
12E15	.2	.4	.5	3.1	15.9	79.9	1703
16E21	.5	.2	.4	2.3	12.1	84.5	1763
TOT	19	15	55	195	973	5531	6773
PCT	.3	.2	.8	2.7	14.4	81.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,HM 20/81,BY HOUR

HOUR (GMT)	<1/2 <400	<1 <400	<2 <600	<5 <1000	1000+ AND/OR 5+	HM <5/8 AND 5+	TOTAL OBS
00E03	1.1	2.0	5.5	20.3	20.4	56.8	1392
04E09	2.4	3.4	9.4	22.6	26.4	50.6	1224
12E15	1.3	2.3	7.3	22.6	22.7	54.7	1417
16E21	1.1	2.4	5.4	20.7	25.1	52.2	1426
TOT	76	142	396	1346	1290	3008	5466
PCT	1.4	2.6	8.2	21.1	23.7	55.3	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	.2	.1	.1	.0	22	.4
85/89	.0	.0	.0	.1	1.1	3.1	.9	.3	329	5.8
80/84	.0	.0	.0	.0	1.1	14.8	29.0	6.3	2454	51.0
75/79	.0	.0	.0	.1	.1	1.4	15.0	26.7	2369	42.3
70/74	.0	.0	.0	.0	.0	.1	.1	.4	58	1.0
65/69	.0	.0	.0	.0	.0	*	*	*	5	.1
TOTAL	2	2	3	6	136	1327	2767	1568	5566	100.0
PCT	.0	.0	.0	.1	2.4	23.8	49.7	24.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	*	.1	.0	*	*	*	.1	.1	.0	*
	.1	.7	.4	.3	.4	.8	1.4	.5	.0	.4
	3.2	5.4	5.2	2.8	3.6	9.3	13.3	6.5	.0	3.8
	1.3	1.3	1.4	2.0	4.8	12.3	53.8	2.9	.0	1.8
	*	*	.1	.1	.1	.3	.3	.1	.0	.0
	.0	.0	*	*	*	.0	.0	.0	.0	*
	4.6	7.5	7.5	5.3	9.0	22.7	28.9	8.0	.0	6.2

TABLE 15

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

HOUR (GMT)	MEAN	90%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	81	86	89	81	73	70	66	81.0	1731
04E09	80	86	89	81	73	70	66	79.0	1731
12E15	84	90	93	85	75	74	65	84.1	1799
16E21	83	90	93	87	77	74	68	83.8	1834
TOT	85	89	95	82	76	74	65	82.0	7143

TABLE 16

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	.6	.1	1.7	21.1	54.0	23.5	85	1455
04E09	.0	.1	.4	11.1	50.9	37.6	87	1409
12E15	.0	.0	.4	12.3	50.6	36.2	87	1453
16E21	.0	.3	6.8	55.0	23.6	15.4	81	1457
TOT	0	5	134	1147	2839	1625	85	5767

PERIOD: (PRIMARY) 1953-1979
(OVER-ALL) 1877-1979

TABL. 17

AREA 0010 NICARAGUA SW COAST
9.5N 86.7W

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

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	NO FOG
17/19	.0	.0	.0	.0	.0	.0	*	.0	1	.0	*
14/16	.0	.0	.0	.0	.0	*	*	*	3	.0	.1
11/13	.0	.0	.0	.0	.1	*	.1	.0	8	.0	.1
9/10	.0	.0	.0	*	.1	.1	.1	*	20	.0	.3
7/8	.0	.0	*	.1	.2	.4	.2	*	54	.0	.9
6	.0	.0	.0	.1	.2	.4	.1	.0	39	.0	.7
5	.0	.0	*	.1	.5	.7	.1	.0	87	.0	1.5
4	.0	.0	*	.4	1.3	.7	.1	.0	151	.0	2.5
3	.0	.1	*	.5	1.3	.7	*	.0	145	.0	2.5
2	.0	.0	.1	1.1	3.2	.8	.0	.0	308	.0	5.2
1	.0	*	*	1.6	3.5	.8	.0	.0	369	.1	6.1
0	*	*	.1	5.4	6.8	.4	.0	.0	774	.1	12.9
-1	*	.0	.4	7.8	5.9	.1	.0	.0	844	.0	14.2
-2	*	.0	.8	9.2	5.5	.1	.0	.0	962	*	16.1
-3	.0	.0	.6	8.0	3.0	.0	.0	.0	695	*	11.6
-4	.0	.0	1.2	6.5	1.9	.0	.0	.0	540	*	9.7
-5	.0	*	1.4	4.7	.8	*	.0	.0	410	.0	6.9
-6	.0	*	1.1	2.6	.1	*	.0	.0	242	.0	4.1
-7/-8	.0	.0	1.3	1.8	.3	.0	.0	.0	205	*	3.4
-9/-10	*	*	.4	.3	*	.0	.0	.0	47	.0	.8
-11/-13	.0	.1	.1	.1	.0	.0	.0	.0	13	.0	.2
-14/-16	*	.0	.0	*	.0	.0	.0	.0	3	.0	.1
TOTAL	6	16	477	1036	2071	320	39	5	11	5953	
PCT	.1	.2	8.0	50.9	34.7	5.4	.7	.1	5964 100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

PCT FREQ OF 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	.7	.0	.0	.0	.0	1.2
1-2	.3	1.7	.2	.0	.0	.0	2.1
3-4	.0	.4	.2	.0	.0	.0	.6
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.1	*	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	2.7	.9	*	.0	.0	4.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.9	.1	.0	.0	.0	1.2
1-2	.2	1.8	1.1	.0	.0	.0	3.1
3-4	.0	1.1	1.2	.0	.0	.0	2.3
5-6	.0	.3	.4	.0	.0	.0	.7
7	.0	.0	.1	*	.0	.0	.1
8-9	.0	.1	.1	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.2	3.1	*	.0	.0	7.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.6	.0	.0	.0	.0	1.1
1-2	.2	1.9	.5	.0	.0	.0	2.6
3-4	.0	1.3	1.0	.0	.0	.0	2.3
5-6	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.1	*	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	3.7	1.9	*	.0	.0	6.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.7	.0	.0	.0	.0	1.2
1-2	.2	1.2	.4	.0	.0	.0	1.8
3-4	.0	.4	.4	.0	.0	.0	.8
5-6	.0	*	.2	.1	.0	.0	.3
7	.0	.0	.0	*	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	2.4	1.0	.1	.0	.0	4.0

PERIOD: (OVER-ALL) 1965-1979 TABLE 16 (CONT) AREA CODE NICARAGUA SW COAST 9.5N 86.7W

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	.7	.0	.0	.0	.0	.9
1-2	.4	2.6	.7	.0	.0	.0	3.7
3-4	.5	1.1	1.3	.0	.0	.0	2.4
5-6	.2	.1	.7	.0	.0	.0	.9
7	.2	.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	.6	4.5	3.1	.0	.0	.0	8.2

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.3	*	.0	.0	.0	1.8
1-2	.7	6.4	1.5	.0	.0	.0	10.5
3-4	.1	3.5	3.2	.1	.0	.0	6.8
5-6	.0	1.3	3.4	.1	.0	.0	4.8
7	.0	.2	.6	.2	.0	.0	1.0
8-9	.0	.0	.1	.1	.0	.0	.2
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	14.6	9.0	.4	.0	.0	25.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.7	*	.0	.0	.0	2.6
1-2	.3	9.0	2.3	.0	.0	.0	11.6
3-4	*	4.6	4.1	.1	.0	.0	8.5
5-6	.0	1.1	4.0	.1	.0	.0	5.2
7	.0	.2	.8	.1	.0	.0	1.1
8-9	.0	.1	.3	.1	.0	.0	.5
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	16.7	11.7	.4	.0	.0	29.9

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	1.1	.1	.0	.0	.0	1.5	
1-2	.3	2.6	1.0	.0	.0	.0	4.0	
3-4	*	1.2	1.0	.0	.0	.0	2.2	
5-6	.0	.1	.7	.0	.0	.0	1.0	
7	.0	.0	.1	.0	.0	.0	.1	
8-9	.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	.6	5.5	2.9	*	.0	.0	8.9	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	9.6	7.7	.2	.0	.0	.0	17.5	
1-2	3.2	29.1	7.5	.0	.0	.0	39.8	
3-4	.2	13.3	12.0	.2	.0	.0	25.7	
5-6	.0	3.1	9.7	.2	.0	.0	13.0	
7	.0	.3	2.1	.4	.0	.0	2.8	
8-9	.0	.2	.6	.2	.0	.0	.9	
10-11	.0	.0	.1	.0	.0	.0	.1	
12	.0	.0	.1	.0	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1702
TOT PCT	13.0	53.7	32.3	1.0	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1979 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.5	13.7	18.0	6.6	3.0	.8	.3	.2	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	2395	3
6-7	.1	2.0	8.8	9.4	4.2	1.5	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1314	5
8-9	*	.7	2.7	3.5	1.8	.9	.3	.2	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	505	5
10-11	.0	.5	1.0	1.0	.4	.2	.1	*	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0	163	5
12-13	.0	.0	.4	.3	.2	.2	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	57	5
312	.0	.0	.0	.6	.2	.1	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	47	6
INDET	4.2	1.1	2.1	1.2	.6	.3	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	477	2
TOTAL	346	887	1645	1226	515	203	52	26	12	3	2	1	0	0	0	0	0	0	0	4958	4
PCT	7.6	17.9	33.2	24.7	10.4	4.1	1.0	.5	.2	.1	*	*	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1954-1979
(OVER-ALL) 1869-1979

AREA CODE NICARAGUA SW COAST
9.5N 86.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	1.0	1.2	.6	.0	.0	.0	.3	3.1	1.9	2.1	.3	.0	.2	.0	92.6
NE	.7	.9	.7	.0	.0	.0	*	2.4	1.4	1.2	.0	.0	.2	.0	94.7
E	2.2	1.6	.9	.0	.0	.0	.1	4.8	2.8	.9	.0	.0	.4	.0	91.3
SE	4.0	3.8	5.7	.0	.0	.0	.0	12.6	5.6	2.9	.0	.0	.0	.0	81.0
S	7.5	2.8	2.4	.0	.0	.0	.0	12.7	7.2	1.2	.2	.0	.5	.0	78.4
SW	4.9	3.1	2.5	.0	.0	.0	.0	10.4	5.4	1.2	.2	.0	*	.0	82.6
W	4.3	2.2	1.4	.0	.0	.0	*	7.8	6.0	1.7	.5	.0	.2	.0	83.9
NW	1.3	1.6	.6	.0	.0	.0	.1	3.9	3.9	3.4	.0	.0	.2	.0	88.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.4	.6	.0	.0	.0	.0	.0	1.0	2.7	2.7	.4	.0	1.0	.0	92.2
TOT PCT	2.7	1.8	1.3	.0	.0	.0	.1	5.9	3.8	1.7	.2	.0	.3	.0	88.2
TOT OBS:	6113														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00E03	2.5	1.6	1.4	.0	.0	.0	.0	5.4	2.9	1.7	.2	.0	.2	.0	89.6
06E09	2.6	1.7	1.6	.0	.0	.0	.1	5.9	3.2	1.3	.0	.0	.3	.0	88.3
12E15	3.5	2.2	1.3	.0	.0	.0	.1	7.0	5.3	.9	.4	.0	.2	.0	86.3
18E21	2.4	1.8	.9	.0	.0	.0	.1	5.2	3.8	.1	.2	.0	.4	.0	90.5
TOT PCT	2.8	1.8	1.3	.0	.0	.0	.1	5.9	3.8	1.7	.2	.0	.3	.0	88.2
TOT OBS:	6276														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	6.2	3.3	.2	*	.0		11.1	9.4	9.5	10.6	7.2	14.7	13.0	19.9	12.5	15.7
NE	1.3	9.2	8.5	1.0	*	.0		20.0	11.3	18.0	20.1	13.7	21.0	20.2	23.3	26.7	21.7
E	1.2	6.2	3.7	.3	.0	.0		11.4	9.7	11.6	7.5	10.9	9.2	10.9	8.4	12.9	11.3
SE	.7	2.8	.7	*	.0	.0		4.1	7.1	3.6	4.1	5.7	3.5	3.4	5.2	3.6	3.9
S	1.0	4.2	.9	.1	.0	.0		6.2	7.5	7.9	9.9	6.3	8.8	4.9	4.4	5.4	7.4
SW	1.3	8.4	3.4	.1	.0	.0		13.2	8.7	16.1	10.8	14.0	8.6	12.2	13.1	11.6	10.3
W	1.8	11.5	4.7	.1	.0	.0		18.2	8.8	19.1	15.6	21.9	13.1	19.8	10.4	14.7	11.8
NW	.9	5.3	1.3	*	.0	.0		7.6	8.0	5.9	6.9	8.1	8.6	9.1	10.3	6.6	9.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.3							8.3	.0	8.9	12.5	12.1	12.5	6.4	5.1	6.0	8.7
TOT OBS	1226	3689	1817	139	3	0	6865		8.5	1414	144	1564	136	1561	178	1716	172
TOT PCT	17.9	53.7	26.5	1.9	*	.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	3.8	6.1	1.2	*	.0		11.1	9.4	9.6	7.8	13.8	12.8
NE	4.7	11.8	3.4	.1	.0		20.0	11.3	18.2	14.3	20.5	26.2
E	4.0	6.1	1.2	.1	.0		11.4	9.7	11.2	10.8	10.6	12.8
SE	2.3	1.7	.1	.0	.0		4.1	7.1	3.8	5.5	3.6	3.6
S	3.2	2.7	.3	*	.0		6.2	7.5	8.1	6.5	4.9	5.6
SW	4.9	7.7	.5	.1	.0		13.2	8.7	15.6	13.6	12.3	11.5
W	6.5	10.7	1.0	*	.0		18.2	8.8	18.8	21.1	18.8	14.4
NW	3.1	4.3	.2	.0	.0		7.6	8.0	6.0	8.1	9.3	6.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	8.3						8.3	.0	8.8	12.2	6.2	6.3
TOT OBS	2800	3496	545	24	0	6865		8.5	1558	1700	1719	1888
TOT PCT	40.8	50.9	7.9	.3	.0		100.0		100.0	100.0	100.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1954-1979
(OVER-ALL) 1969-1979

AREA 0010 NICARAGUA SW COAST
9.5N 86.7W

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
0001-0700	6.8	10.3	57.4	22.3	1.0	.1	.0	7.8	100.0	1558
0801-1300	12.2	9.7	56.2	21.2	1.7	.0	.0	7.8	100.0	1700
1401-1900	6.2	9.6	53.0	29.1	2.0	.0	.0	8.9	100.0	1719
1901-2359	6.3	9.7	49.2	32.2	2.6	.1	.0	9.3	100.0	1888
TOT	569	657	3689	1817	130	3	0	8.5		6865
PCT	8.3	9.6	53.7	26.5	1.9	*	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCR	TOTAL OBS	MEAN CLOUD COVER
N	3.6	2.4	2.9	1.3		3.9
NE	7.8	4.5	5.3	2.1		3.6
E	4.1	2.6	3.4	1.9		4.1
SE	.7	.3	1.6	.4		5.0
S	.7	1.2	2.2	1.9		5.6
SW	1.3	2.5	5.5	4.1		5.8
W	3.1	4.7	7.5	4.4		5.2
NW	2.1	1.8	2.7	1.1		4.4
VAR	.0	.0	.0	.0		.0
CALM	4.0	2.0	2.3	.4		3.7
TOT OBS	1345	1107	1694	634	5080	4.5
TOT PCT	26.5	21.8	33.3	12.4	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	MM <5/8 ANY HGT	TOTAL OBS
N	.1	.1	.1	.6	.8	.2	.1	*	.0	*	8.0	
NE	*	.1	.1	.8	1.3	.5	.3	.1	.1	*	16.6	
E	.1	.0	.1	.4	.8	.6	.3	.1	*	*	9.2	
SE	.1	.0	.1	.4	.6	.1	.1	*	*	.0	2.5	
S	.1	.2	.1	1.1	1.0	.2	.1	*	*	*	3.3	
SW	.3	.1	.6	2.0	2.3	.7	.2	*	.1	.0	7.2	
W	.1	.1	.5	2.5	3.0	1.2	.3	.1	*	.1	11.1	
NW	*	*	.1	.4	.8	.3	.2	*	.0	.1	5.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	*	.1	.7	.7	.3	.1	.0	.0	.0	6.4	
TOT OBS	36	16	97	491	576	206	81	20	13	13	3531	5080
TOT PCT	.7	.3	1.9	9.7	11.3	4.1	1.6	.4	.3	.3	69.5	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >SOVD	= OR >0
= OR >6500	.6	.6	.6	.6	.6	.6	.6	.6
= OR >5000	.9	.9	1.0	1.0	1.0	1.0	1.0	1.0
= OR >3500	2.1	2.4	2.5	2.6	2.6	2.6	2.6	2.6
= OR >2000	5.4	6.2	6.5	6.6	6.6	6.6	6.6	6.6
= OR >1000	14.6	17.2	17.6	17.9	17.9	17.9	17.9	17.9
= OR >600	21.6	26.3	27.1	27.4	27.4	27.5	27.5	27.5
= OR >300	22.8	28.0	29.0	29.2	29.3	29.3	29.3	29.3
= OR >150	22.9	28.4	29.3	29.6	29.6	29.7	29.7	29.7
= OR > 0	23.2	28.8	29.9	30.2	30.2	30.3	30.4	30.4
TOTAL	1236	1499	1552	1570	1572	1577	1579	1579

TOTAL NUMBER OF OBS: 5198

PCT FREQ MM <5/8: 69.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCO	TOTAL OBS
11.9	16.1	16.5	13.9	10.9	6.7	7.3	6.7	9.7	.5 5497

PERIOD: (PRIMARY) 1954-1979
(OVER-ALL) 1949-1979

AREA 0010 NICARAGUA SW COAST
9.5N 86.7W

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	*	*	*	*	.0	.0	.1	
	NO PCP	.0	*	.0	.0	.0	*	*	.0	.0	.0	.1	
	TOT %	.0	*	.0	.0	*	*	.1	*	.0	.0	.2	
1/2<1	PCP	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
	NO PCP	.0	*	.0	.0	*	*	.0	.0	.0	.0	*	
	TOT %	.0	*	.0	.0	*	*	.0	.0	.0	.0	*	
1<2	PCP	*	*	.0	.0	*	.1	.1	*	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	*	*	*	.0	.0	*	.1	
	TOT %	*	*	.0	.0	.1	.1	.1	*	.0	*	.3	
2<5	PCP	*	.1	.1	*	.1	.1	.2	*	.0	*	.7	
	NO PCP	*	.1	.1	*	.1	.1	.2	*	.0	*	.6	
	TOT %	.1	.1	.1	*	.2	.2	.4	.1	.0	*	1.3	
5<10	PCP	.2	.2	.2	.2	.3	.7	.6	.1	.0	*	2.5	
	NO PCP	.5	.9	.5	.2	.6	1.5	1.9	.5	.0	.4	7.0	
	TOT %	.7	1.0	.8	.4	1.0	2.1	2.4	.7	.0	.4	9.5	
10+	PCP	.1	.2	.3	.3	.3	.5	.5	.1	.0	*	2.4	
	NO PCP	9.9	14.4	10.5	3.3	4.7	10.3	15.2	6.6	.0	7.5	86.4	
	TOT %	10.0	18.7	10.8	3.5	5.0	10.8	15.7	6.7	.0	7.5	88.7	
	TOT OBS												6091
	TOT PCT	10.8	19.9	11.7	4.0	6.2	13.3	18.7	7.5	.0	8.0	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	.1	*	.0		.1	
	11-21	.0	*	.0	.0	*	*	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	*	.0	*	*	.1	*	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	*	*	.0	.0	.0		*	
	11-21	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	.0	.0	*	*	.0	.0	.0	.0	.1	
1<2	0-3	.0	.0	.0	*	.0	.0	*	.0	.0	*	*	
	4-10	*	*	.0	.0	*	.1	*	*	.0		.2	
	11-21	*	*	*	.0	*	*	*	*	.0		.1	
	22+	.0	.0	.0	.0	*	.1	*	.0	.0		.1	
	TOT %	*	*	*	*	.1	.1	.1	*	.0	*	.4	
2<5	0-3	*	*	*	*	*	*	*	*	.0	.1	.2	
	4-10	.1	*	.1	*	.1	.2	.2	*	.0		.6	
	11-21	*	.1	.1	*	*	.1	.2	.1	.0		.5	
	22+	.0	.0	*	.0	*	*	.0	.0	.0		.1	
	TOT %	.1	.1	.2	*	.2	.3	.5	.1	.0	.1	1.7	
5<10	0-3	*	*	*	*	.1	.2	.2	*	.0	.4	1.0	
	4-10	.5	.6	.4	.3	.6	1.0	1.3	.4	.0		5.0	
	11-21	.2	.3	.3	.1	.2	.9	.9	.2	.0		3.1	
	22+	.0	.1	.1	*	*	*	.0	.0	.0		.2	
	TOT %	.7	1.0	.8	.4	.9	2.1	2.3	.7	.0	.4	9.4	
10+	0-3	1.2	1.2	1.1	.4	.8	1.0	1.5	.8	.0	7.6	15.8	
	4-10	5.6	8.4	5.8	2.4	3.4	7.3	10.1	4.9	.0		47.9	
	11-21	4.0	8.1	3.5	.5	.7	2.4	3.7	1.1	.0		23.0	
	22+	.2	.9	.3	.0	*	*	.1	*	.0		1.6	
	TOT %	10.0	18.7	10.6	3.6	4.9	10.7	15.4	6.8	.0	7.6	88.3	
	TOT OBS												6394
	TOT PCT	10.9	20.0	11.6	4.1	6.1	13.2	18.4	7.6	.0	8.1	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1954-1979
(OVER-ALL) 1869-1979

AREA 0010 NICARAGUA SW COAST
9.5N 86.7W

TABLE 10

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

HOUR (GMT)	300 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	MM <5/8 ANY HGT	TOTAL OBS
00E03	.5	.5	1.5	8.7	12.0	4.8	2.0	.4	.2	.2	30.4	69.1	1293
06E09	1.1	.2	1.2	9.7	11.7	3.3	1.3	.7	.2	.5	30.0	70.0	1277
12E15	.4	.3	2.8	11.3	9.8	4.1	1.6	.1	.2	.3	30.8	69.2	1415
18E21	.2	.2	1.7	7.5	10.5	3.4	1.4	.4	.3	.1	26.2	73.8	1402
TOT	37	17	98	501	589	209	84	21	13	16	1545	3802	5387
PCT	.7	.3	1.8	9.3	10.9	3.9	1.6	.4	.2	.3	28.4	70.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.1	.1	.5	1.9	9.0	88.4	1508
06E09	.1	.0	.3	1.7	10.3	87.6	1639
12E15	.1	.1	.4	1.9	10.4	87.1	1679
18E21	.5	.1	.4	1.0	7.7	90.3	1733
TOT	11	4	27	107	613	5797	6559
PCT	.2	.1	.4	1.6	9.3	88.4	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	MM <5/8 AND 5+	TOTAL OBS
00E03	.5	2.7	13.0	19.3	67.7	1249
06E09	1.1	2.7	13.5	18.1	68.4	1222
12E15	.4	3.6	16.1	15.8	68.1	1375
18E21	.6	3.0	11.5	15.9	72.6	1352
TOT	37	152	703	894	3601	5198
PCT	.7	3.0	13.5	17.2	69.3	100.

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY 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	2	*
90/94	.0	.0	.0	.1	.3	.0	.0	*	22	.4
85/89	.0	.0	.0	.2	1.1	2.4	.5	.2	241	4.5
80/84	.0	.0	.0	.2	3.0	14.2	26.9	5.5	2867	53.4
75/79	.0	.0	.0	.1	.3	3.7	18.5	16.0	2140	40.6
70/74	.0	.0	.0	.0	.0	*	.2	.8	55	1.0
TOTAL	0	9	0	30	254	1308	2496	1326	5367	100.0
PCT	.0	.0	.0	.6	4.7	24.4	46.6	24.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

%	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	*	*	.0	.0	.0	.0	.0	.0	*
.1	.1	.1	*	.0	*	*	.0	.0	.1
.6	1.2	.8	.1	.2	.2	.6	.5	.0	.3
6.1	12.6	7.3	2.1	2.9	5.6	8.2	3.9	.0	4.7
3.5	5.6	3.5	1.9	2.9	7.3	9.9	3.1	.0	2.9
*	.2	.1	.1	.2	.2	.2	.1	.0	*
10.4	19.6	11.7	4.2	6.2	13.3	18.9	7.5	.0	8.0

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	93	86	84	80	77	74	71	80.1	1596
06E09	86	84	82	79	76	74	70	76.2	1786
12E15	89	94	92	79	76	74	68	79.1	1749
18E21	95	90	87	82	77	75	70	81.9	1906
TOT	95	88	85	80	74	73	68	80.1	6999

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.5	2.5	26.3	50.3	20.5	83	1315
06E09	.0	.0	1.4	17.8	48.3	32.4	86	1380
12E15	.0	.2	2.7	15.8	47.5	33.8	86	1433
18E21	.0	1.4	11.7	37.8	37.3	11.6	79	1388
TOT	0	31	255	1342	2526	1362	84	5516

NOVEMBER

PERIOD: (PRIMARY) 1954-1979
(OVER-ALL) 1969-1979

AREA 0010 NICARAGUA SW COAST
9.5N 86.2W

TABLE 17

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

AIR-SEA TMP DIF	≤65 ≤68	69 72	73 76	77 80	81 84	85 88	89 92	≥92	TOT	N FOG	NO FOG
17/19	.0	.0	.0	.0	.0	.0	*	.0	1	.0	*
14/16	.0	.0	.0	.0	*	.0	.1	*	6	.0	.1
11/13	.0	.0	.0	.0	*	.1	*	*	10	.0	.2
9/10	.0	.0	.0	.1	.1	.2	.1	*	32	.0	.6
7/8	.0	.0	.0	.2	.5	.4	.2	.0	73	.0	1.3
6	.0	.0	.0	.1	.5	.3	.1	.0	53	.0	.9
5	.0	.0	.1	.2	.9	.6	.0	.0	112	.0	2.0
4	.0	.0	.1	.7	1.7	.9	.0	.0	189	*	3.3
3	.0	.0	.1	.6	2.0	.6	*	.0	187	.0	3.3
2	.0	*	.1	2.1	4.2	.6	.0	.0	399	.1	6.9
1	.0	.0	.2	3.9	4.6	.3	*	.0	513	.0	9.0
0	.0	.0	.3	8.6	7.0	.1	.0	.0	910	*	15.9
-1	.0	.0	.6	8.8	5.2	.2	.0	.0	843	*	14.8
-2	.0	.0	.7	10.7	4.3	*	.0	.0	899	*	15.7
-3	.0	.0	.6	6.7	1.6	*	.0	.0	511	.0	9.0
-4	.0	*	1.2	5.6	1.2	*	.0	.0	457	.0	8.0
-5	.0	.0	.9	3.3	.5	.0	.0	.0	267	.0	4.7
-6	.0	*	.7	1.3	.1	.0	.0	.0	121	.0	2.1
-7/-8	.0	.0	.6	.8	.1	.0	.0	.0	86	.0	1.5
-9/-10	.0	*	.3	.2	.0	.0	.0	.0	26	.0	.5
-11/-13	*	*	.1	.1	.0	.0	.0	.0	9	.0	.2
TOTAL	1		363		1977		31			*	5698
		7		3067		254		4	5709		
PCT	*	.1	6.4	53.8	34.7	4.5	.5	.1	100.0	.1	99.9

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.9	.1	.0	.0	.0	1.4
1-2	.1	4.0	.9	.0	.0	.0	5.0
3-4	.2	1.4	1.1	.0	.0	.0	2.7
5-6	.0	.2	.9	.1	.0	.0	1.1
7	.0	.1	.2	.0	.0	.0	.4
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	6.7	3.2	.1	.1	.0	10.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.5	.2	.0	.0	.0	1.9
1-2	.3	4.7	1.7	.0	.0	.0	6.8
3-4	.1	2.4	2.9	.1	.0	.0	5.4
5-6	.0	.6	2.1	.3	.0	.0	3.0
7	.0	.1	.7	.4	.0	.0	1.2
8-9	.0	.0	.2	.1	*	.0	.3
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	*	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	9.4	7.9	1.1	.1	.0	19.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.5	.0	.0	.0	.0	.9
1-2	.2	3.1	1.1	.1	.0	.0	4.6
3-4	.1	1.6	1.1	.1	.0	.0	3.0
5-6	.0	.5	.6	*	.0	.0	1.2
7	.0	.2	.4	.1	.0	.0	.7
8-9	.0	.0	.1	*	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	*	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	6.2	3.4	.4	.0	.0	10.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.4	.0	.0	.0	.0	.8
1-2	*	1.8	.1	.0	.0	.0	1.9
3-4	.1	.4	.4	.0	.0	.0	.8
5-6	.0	.2	.1	.0	.0	.0	.3
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.8	.7	.0	.0	.0	3.9

PERIOD: (OVER-ALL) 1963-1979 NOVEMBER AREA 0010 NICARAGUA SW COAST

TABLE 18 (CONT) 9.5N 86.7W

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.0	.1	.0	.0	.0	1.4
1-2	.3	2.3	.2	.0	.0	.0	2.8
3-4	.0	1.2	.5	.0	.0	.0	1.7
5-6	.0	.1	.4	.0	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	4.7	1.1	.1	.0	.0	6.4

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	2.3	.1	.0	.0	.0	2.5
1-2	.5	3.9	.4	.0	.0	.0	5.2
3-4	.1	2.9	1.8	.0	.0	.0	4.8
5-6	.0	.3	.9	.1	.0	.0	1.3
7	.0	.1	.4	.0	.0	.3	.5
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.1	.0	.0	.0	.0
13-16	.0	.1	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	9.6	4.1	.1	.0	.0	14.6

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	2.3	.2	.0	.0	.0	3.4
1-2	.5	7.1	1.1	.0	.0	.0	8.8
3-4	.1	3.2	2.2	.0	.0	.0	5.5
5-6	.1	.5	1.5	.1	.0	.0	2.2
7	.0	.3	.3	.1	.0	.0	.6
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	13.4	5.5	.2	.0	.0	20.6

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.4	1.1	.1	.0	.0	.0	1.6	
1-2	.2	3.0	.2	.0	.0	.0	3.4	
3-4	.1	1.1	.7	.0	.0	.0	1.9	
5-6	.0	.6	.1	.0	.0	.0	.7	
7	.0	.0	.1	*	.0	.0	.1	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	5.8	1.2	*	.0	.0	7.7	93.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	10.4	9.8	.7	.0	.0	.0	20.9	
1-2	3.1	29.9	6.0	.0	.0	.0	38.9	
3-4	.7	13.9	10.4	.2	.0	.0	25.2	
5-6	.1	3.0	6.3	.5	.1	.0	10.0	
7	.0	.7	2.1	.7	.0	.0	3.6	
8-9	.0	.0	.5	.2	.1	.0	.7	
10-11	.0	.0	.0	.2	.0	.0	.2	
12	.0	.0	.1	.0	.0	.0	.1	
13-16	.0	.0	.1	.1	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.1	.0	.1	
23-25	.0	.0	.0	.1	.0	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1657
TOT PCT	14.4	57.5	26.1	1.9	.2	.0	100.0	

PERIOD: (OVER-ALL) 1949-1979 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.8	15.4	19.1	8.8	2.7	.9	.2	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	2517	3
6-7	.4	2.8	8.1	7.2	3.1	.7	.4	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1094	4
8-9	*	.7	2.4	2.7	1.4	.6	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	409	5
10-11	.0	.4	1.1	.7	.2	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	132	5
12-13	.0	.0	.0	.4	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	78	6
14+	.0	.0	.0	.4	.4	.1	*	.0	*	.0	*	*	.0	.0	.0	.0	.0	.0	.0	47	7
INDFT	5.4	1.4	2.2	1.3	.5	.2	.1	*	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	537	2
TOTAL	462	1043	1626	1039	431	129	44	12	22	2	2	2	0	0	0	0	0	0	0	4814	*
PCT	9.6	21.7	33.8	21.6	9.0	2.7	.9	.2	.5	*	*	*	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1873-1979

AREA 0010 NICARAGUA SW COAST
9.5N 86.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG W/O PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.2	.1	.0	.0	.0	.0	.0	.3	.8	.1	.6	.0	.2	.0		97.9
NE	.3	.2	.2	.0	.0	.0	.0	.7	.5	.5	.9	.0	.7	.0		97.2
E	.4	.4	.3	.0	.0	.0	.0	1.0	.5	.8	.3	.0	.8	.1		96.5
SE	.6	1.4	1.5	.0	.0	.0	.0	3.5	1.5	.2	2.2	.0	.0	.0		92.6
S	1.7	1.7	.8	.0	.0	.0	.0	4.3	2.5	1.1	.5	.0	.0	.0		91.6
SW	2.4	2.0	.5	.0	.0	.0	.0	4.6	2.6	.8	.0	.0	.5	.5		91.3
W	.4	1.1	.2	.0	.0	.0	.0	1.7	2.6	1.3	.6	.0	.0	.1		93.7
NW	.3	.7	.4	.0	.0	.0	.0	1.2	.8	.4	.3	.0	.2	.1		97.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.2	.0	.0	.0	.0	.8	1.9	.6	.2	.0	.8	.0		95.8
TOT PCT	.5	.6	.3	.0	.0	.0	.0	1.3	1.2	.6	.5	.0	.5	.1		95.8
TOT OBS:	5976															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG W/O PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00E03	.2	.5	.3	.0	.0	.0	.0	1.0	.6	.5	.3	.0	.4	.0		97.3
06E09	.4	.3	.4	.0	.0	.0	.0	1.1	1.4	1.6	.7	.0	.6	.2		96.5
12E15	1.0	1.2	.3	.0	.0	.0	.0	2.4	2.0	.6	.6	.0	.4	.1		96.0
18E21	.4	.4	.2	.0	.0	.0	.0	1.1	.7	.0	.8	.1	.5	.0		96.8
TOT PCT	.5	.6	.3	.0	.0	.0	.0	1.4	1.2	.7	.6	*	.5	.1		95.5
TOT OBS:	6078															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)					
WND DIR	0-7	8-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.0	7.6	4.2	.5	*	.0		14.2	9.6	12.3	11.7	10.2	19.7	17.4	15.8	15.5	21.7
NE	1.6	11.9	14.3	2.6	*	.0		30.2	12.7	26.5	26.3	24.0	29.6	32.3	33.2	37.4	25.5
E	1.4	5.2	5.3	.9	.1	.0		12.8	11.6	13.1	16.9	13.7	11.1	12.9	10.8	12.4	7.2
SE	.6	1.7	.3	.1	.0	.0		2.8	6.6	3.5	5.0	3.2	6.0	1.5	1.4	2.6	3.1
S	.9	1.9	.4	*	.0	.0		3.2	6.2	5.2	5.8	3.3	7.7	2.0	3.8	2.4	2.4
SW	1.1	5.1	.9	*	.0	.0		7.2	6.9	9.2	7.5	8.3	4.8	7.1	3.1	5.2	7.9
W	2.1	9.6	1.7	*	.0	.0		13.4	7.1	14.5	12.1	15.7	11.6	13.0	15.4	11.4	12.1
NW	1.1	5.2	1.2	*	.0	.0		7.5	7.4	6.4	5.1	8.0	6.2	7.9	8.2	7.6	10.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.7							8.7	.0	9.7	11.7	14.2	4.2	6.1	8.2	5.5	9.7
TOT OBS	1312	3221	1886	280	7	0	6706		9.1	1415	120	1507	146	1484	183	1706	145
TOT PCT	19.6	48.0	28.1	4.2	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	5.2	7.1	1.7	.1	.0		14.2	9.6	12.2	11.0	17.2	16.0
NE	5.9	16.2	7.4	.7	.0		30.2	12.7	26.5	24.5	32.4	36.5
E	3.7	6.3	2.6	.2	*		12.8	11.6	13.4	13.4	12.6	12.0
SE	1.9	.8	.1	.0	.0		2.8	6.6	3.6	3.4	1.5	2.7
S	2.1	1.0	*	*	.0		3.2	6.2	5.2	3.2	2.2	2.4
SW	4.1	3.0	.1	.0	.0		7.2	6.9	9.1	8.0	6.7	5.4
W	6.9	6.2	.3	.0	.0		13.4	7.1	14.3	14.9	13.3	11.5
NW	3.7	3.6	.2	.0	.0		7.5	7.4	6.2	7.8	7.9	7.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	8.7						8.7	.0	9.4	13.7	6.3	5.8
TOT OBS	2833	2965	840	67	1	6706		9.1	1535	1653	1667	1851
TOT PCT	42.2	44.2	12.5	1.0	*		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1873-1979

TABLE 4

AREA 0010 NICARAGUA SW COAST
9.5N 86.7W

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00E03	9.4	13.0	52.8	22.7	2.0	.1	.0	7.9	100.0	1535
06E09	13.7	9.7	48.8	24.3	3.4	.0	.0	8.2	100.0	1653
12E15	6.3	9.1	48.3	31.4	4.9	.1	.0	9.8	100.0	1667
18E21	5.4	11.7	43.2	33.1	6.0	.2	.0	10.1	100.0	1451
TOT	593	729	3221	1886	280	7	0	9.1		6706
PCT	8.7	10.9	48.0	28.1	4.2	.1	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	7.3	2.9	2.5	.5		2.6
NE	19.1	5.9	4.4	.8		2.2
E	7.9	2.9	2.2	.3		2.3
SE	1.1	.4	.9	.4		3.5
S	1.0	.7	.9	.4		4.3
SW	2.1	1.9	2.6	1.0		4.3
W	4.4	3.7	4.5	1.2		3.9
NW	3.6	1.7	1.8	.4		3.2
VAR	.0	.0	.0	.0		.0
CALM	4.4	1.7	1.8	.4		2.9
TOT OBS	2533	1062	1080	269	4981	2.9
TOT PCT	50.8	21.7	21.7	5.4	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	WW <5/8 ANY HGT	TOTAL OBS
N	•	.0	.1	.3	.6	.3	.2	•	.0	.1	11.6	
NE	•	.0	.1	.6	.9	.5	.2	.1	•	.1	27.8	
E	•	.0	•	.2	.5	.3	.1	•	•	.1	11.9	
SE	•	.0	•	.1	.2	.1	.1	•	•	•	2.2	
S	.1	.0	.1	.3	.2	.1	.1	.0	.0	.0	2.3	
SW	•	•	.2	.6	.5	.3	.1	.1	.0	.0	5.7	
W	.1	.1	.2	.7	1.2	.5	.2	.1	•	.0	10.7	
NW	•	•	.1	.2	.8	.2	•	.1	.0	.1	5.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	•	.0	.1	.3	.5	.3	.1	.0	•	•	7.2	
TOT OBS	16	6	40	172	269	123	57	19	7	18	4253	4981
TOT PCT	.3	.1	.8	3.5	5.4	2.5	1.1	.4	.1	.4	85.4	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >5070	= OR >0
= OR >6500	.5	.5	.5	.5	.5	.5	.5	.5
= OR >5000	.8	.9	.9	.9	.9	.9	.9	.9
= OR >3500	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0
= OR >2000	4.1	4.4	4.5	4.5	4.5	4.5	4.5	4.5
= OR >1000	8.9	9.7	9.8	9.8	9.8	9.8	9.8	9.8
= OR >600	11.7	13.1	13.2	13.2	13.2	13.2	13.2	13.2
= OR >300	12.3	13.8	14.0	14.0	14.0	14.0	14.0	14.0
= OR >150	12.5	14.0	14.1	14.1	14.2	14.2	14.2	14.2
= OR > 0	12.7	14.2	14.4	14.4	14.5	14.5	14.5	14.5
TOTAL	647	725	734	735	737	738	738	738

TOTAL NUMBER OF OBS: 5090 PCT FREQ WW <5/8: 85.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
26.3	27.3	16.3	11.8	7.6	4.1	4.1	3.6	2.7 .2	5336

DECEMBER

PERIOD: (PRIMARY) 1952-1976
(OVER-ALL) 1973-1979

AREA CODE NICARAGUA SW COAST
9.5N 86.7W

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	*	*	.0	.0	.0	*	
	NO PCP	*	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
	TOT %	*	.0	.0	.0	.0	*	*	*	.0	.0	*	
1/2<1	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<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	
	NO PCP	*	*	*	.0	*	.0	.1	.0	.0	.0	.2	
	TOT %	.1	*	*	*	*	*	.1	*	.0	.0	.3	
5<10	PCP	*	.1	.1	.1	*	.1	*	*	.0	*	.5	
	NO PCP	.5	1.1	.7	.1	.2	.4	.7	.5	.0	.4	4.5	
	TOT %	.5	1.2	.7	.2	.3	.5	.8	.5	.0	.4	5.0	
10+	PCP	*	.1	.1	*	.1	.2	.2	.1	.0	*	.7	
	NO PCP	13.1	29.3	12.1	2.5	2.7	6.7	12.6	6.9	.0	7.9	93.6	
	TOT %	13.2	29.4	12.2	2.5	2.8	6.9	12.7	7.0	.0	8.0	94.6	
	TOT OBS												5910
	TOT PCT	13.7	30.6	13.0	2.7	3.1	7.4	13.5	7.5	.0	8.4	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	*	.0	.0	.0	*	*	*	.0		*	
	11-21	*	.0	.0	.0	.0	.0	*	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	.0	.0	.0	*	*	*	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	.0	.0	.0	.0	*	.0	.0	.0	.0		*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	*	.0	*	.0	.0	.0	*	*	
1<2	0-3	*	.0	.0	.0	.0	.0	*	.0	.0	.0	*	
	4-10	.0	*	.0	.0	*	.0	*	.0	.0		*	
	11-21	.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	
2<5	0-3	*	*	*	.0	.0	.0	*	.0	.0	*	.1	
	4-10	*	*	*	*	.1	*	*	*	.0		.3	
	11-21	*	*	*	.0	.0	.0	.0	*	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.1	*	*	.1	*	.1	*	.0	*	.5	
5<10	0-3	.1	.1	.2	.1	.1	.1	.1	.1	.0	.4	1.2	
	4-10	.2	.5	.3	.1	.1	.3	.4	.3	.0		2.2	
	11-21	.1	.5	.2	.1	*	.1	.2	.1	.0		1.4	
	22+	*	*	.1	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.5	1.1	.7	.2	.3	.5	.8	.5	.0	.4	5.0	
10+	0-3	1.7	1.3	1.1	.5	.8	1.1	2.0	1.0	.0	8.1	17.6	
	4-10	7.2	11.3	4.8	1.7	1.7	4.7	9.0	4.8	.0		45.2	
	11-21	3.9	14.1	5.2	.3	.3	.8	1.5	1.1	.0		27.3	
	22+	.5	2.7	.9	.1	*	*	*	*	.0		4.3	
	TOT %	13.3	29.4	12.1	2.5	2.8	6.6	12.6	6.9	.0	8.1	94.6	
	TOT OBS												6178
	TOT PCT	13.9	30.7	12.9	2.7	3.1	7.2	13.4	7.5	.0	8.6	100.0	

DECEMBER

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1973-1979

TABLE 10

AREA CODE NICARAGUA SW COAST
9.5N 86.7W

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	4M <5/8 ANY HGT	TOTAL OBS
00E03	.2	.2	.5	2.8	4.5	2.3	1.1	.5	.2	.3	12.6	87.4	1309
06E09	.5	.2	.8	3.3	5.0	2.5	.6	.4	.2	.2	13.7	86.3	1256
12E15	.2	.1	1.4	4.4	6.4	3.1	1.6	.1	.0	.7	18.2	81.8	1350
18E21	.3	.1	.6	2.7	4.5	1.6	1.2	.4	.1	.1	11.5	88.5	1378
TOT	16	8	42	175	271	125	60	19	7	18	741	4552	5293
PCT	.3	.2	.8	3.3	5.1	2.4	1.1	.4	.1	.3	14.0	86.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.0	.1	.1	.5	4.2	95.1	1475
06E09	.1	.0	.1	.6	5.4	93.4	1582
12E15	.2	.1	.1	.5	5.7	93.3	1605
18E21	.0	.0	.0	.3	4.4	95.1	1669
TOT	4	3	5	24	324	5966	6331
PCT	.1	*	.1	.5	5.1	94.2	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	4M <5/8 AND 5+	TOTAL OBS
00E03	.2	1.0	4.1	9.2	86.7	1256
06E09	.5	1.6	5.5	9.1	85.4	1212
12E15	.2	2.0	6.7	12.3	81.0	1299
18E21	.3	.8	3.7	9.2	88.1	1323
TOT	16	67	254	494	4342	5090
PCT	.3	1.3	5.0	9.7	85.3	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	*	.2	.2	*	.1	.0	27	.5
85/89	.0	.0	.0	.3	1.4	1.8	.6	.1	217	4.2
80/84	.0	.0	.2	.2	5.5	24.1	21.1	4.0	2860	54.9
75/79	.0	.0	.0	*	.2	9.4	18.3	10.2	2009	38.5
70/74	.0	.0	.0	.0	.0	.1	.4	1.3	101	1.9
TOTAL	0	0	1	36	400	1544	2114	815	5214	100.0
PCT	.0	.0	*	.7	7.7	35.4	40.6	15.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

%	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.2	.1	*	.0	*	*	*	.0	.1
.5	1.3	.6	.2	.2	.2	.6	.4	.0	.3
7.4	16.0	7.3	1.7	1.6	4.4	7.7	4.2	.0	4.6
5.3	17.5	5.1	.6	1.2	2.9	4.9	2.6	.0	3.3
.3	.6	.2	.0	*	*	.2	.1	.0	.4
13.6	35.6	13.3	2.6	3.0	7.6	13.4	7.3	.0	8.6

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	92	86	84	81	76	74	67	80.2	1556
06E09	87	83	82	80	75	73	70	79.2	1701
12E15	88	87	82	79	75	73	70	79.9	1667
18E21	94	90	87	82	77	75	68	81.7	1874
TOT	94	88	84	80	76	73	67	80.3	6818

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	M	TOTAL OBS
00E03	.0	.6	6.9	36.4	42.0	13.7	81	1296
06E09	.0	.2	2.2	27.9	48.3	21.4	84	1324
12E15	.0	.1	4.0	29.7	44.6	21.2	83	1348
18E21	.0	1.9	16.9	46.2	27.9	7.1	77	1367
TOT	0	32	404	1874	2176	843	81	5335

DECEMBER

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1873-1979

AREA 0010 NICARAGUA SW COAST
9.5N 86.7W

TABLE 17

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

AIR-SEA IMP DIF	65 OR LESS	66 TO 72	73 TO 76	77 TO 80	81 TO 84	85 TO 87	88 TO 92	>92	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	*	.0	.0	.0	1	.0	*
14/16	.0	.0	.0	.0	*	*	*	.0	6	.0	.1
11/13	.0	.0	.0	*	.1	.1	.1	.0	20	.0	.4
9/10	.0	.0	.0	.2	.2	.2	.1	*	43	.0	.8
7/8	.0	.0	.0	.2	.7	.3	.2	.0	80	.0	1.4
6	.0	.0	.1	.4	.4	.3	.1	.0	72	.0	1.3
5	.0	*	.1	.6	1.2	.5	.1	.0	141	.0	2.5
4	.0	.0	.2	1.2	1.7	.6	*	.0	205	.0	3.7
3	.0	*	.3	1.6	1.7	.5	.0	.0	224	.0	4.0
2	.0	*	.4	2.6	4.4	.6	.0	.0	451	*	8.1
1	.0	.0	.4	4.1	4.4	.3	*	.0	533	.1	9.5
0	.0	*	1.0	7.5	6.8	.2	.0	.0	868	.1	15.5
-1	.0	.1	.7	7.3	5.7	.2	.0	.0	775	*	13.9
-2	.0	.1	.9	8.3	4.6	*	.0	.0	769	*	13.8
-3	.0	.0	.7	6.0	2.5	*	.0	.0	511	.0	9.2
-4	.0	.1	.9	5.6	1.1	.0	.0	.0	430	.0	7.7
-5	*	*	.7	2.7	.4	.0	.0	.0	218	.0	3.9
-6	.0	.0	.5	1.2	.2	.0	.0	.0	108	.0	1.9
-7/-8	.0	*	.4	.8	.1	.0	.0	.0	73	.0	1.3
-9/-10	*	.0	.3	.2	*	.0	.0	.0	27	.0	.5
-11/-13	.0	.1	*	*	.0	.0	.0	.0	7	.0	.1
TOTAL	2	24	441	2814	2019	217	43	2	5562	16	5546
PCT	*	.4	7.9	50.6	36.3	3.9	.8	*	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	1.3	*	.0	.0	.0	2.2
1-2	.9	4.1	.5	.0	.0	.0	5.5
3-4	*	1.8	1.7	.1	.0	.0	3.6
5-6	.1	.5	.8	.0	.0	.0	1.3
7	.0	*	.5	.2	.0	.0	.8
8-9	.0	.0	.3	.0	*	.0	.3
10-11	.0	.0	.1	.1	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.8	7.7	3.9	.4	*	.0	13.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.4	.1	.0	.0	.0	1.8
1-2	.4	6.0	1.8	.0	.0	.0	8.1
3-4	.2	3.1	4.7	.5	.0	.0	8.5
5-6	.0	.8	4.2	.5	.0	.0	5.6
7	.0	.1	1.6	.8	.0	.0	2.4
8-9	.0	.0	.5	.3	*	.0	.8
10-11	.0	.0	.2	.2	.0	.0	.4
12	.0	.0	*	.2	.0	.0	.2
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	11.4	13.2	2.6	*	.0	27.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	1.0	.0	.0	.0	.0	1.8
1-2	.3	2.3	.7	.0	.0	.0	3.3
3-4	*	1.3	1.3	.1	.0	.0	2..
5-6	.0	.4	1.4	.2	.0	.0	1.9
7	.0	.0	.8	.2	.0	.0	1.0
8-9	.0	.0	.3	.1	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	*	*	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	*	.0	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	4.9	4.6	.4	.0	.0	11.3

SE

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

PERIOD: (OVER-ALL) 1963-1979

DECEMBER

TABLE 18 (CONT)

AREA 0010 NICARAGUA SW COAST 9.5N 86.7W

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

SW

1-3	4-10	11-21	22-33	34-47	48+	PCT
.6	1.6	.1	.0	.0	.0	2.3
.3	3.8	.2	.0	.0	.0	4.3
.1	1.4	.6	.0	.0	.0	2.0
*	.1	.1	.0	.0	.0	.3
.0	.0	.0	.0	.0	.0	.0
.0	.0	.1	.0	.0	.0	.1
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
1.0	6.8	1.1	.0	.0	.0	8.9

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	2.4	*	.0	.0	.0	3.1
1-2	.4	7.1	1.2	.0	.0	.0	9.0
3-4	.0	2.0	1.0	.0	.0	.0	3.0
5-6	.0	.4	.4	.0	.0	.0	.8
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	1.4	12.1	2.7	.0	.0	.0	16.2

NW

1-3	4-10	11-21	22-33	34-47	48+	PCT
.6	.8	.0	.0	.0	.0	1.4
.7	3.3	.7	.0	.0	.0	4.7
.0	.8	.2	.0	.0	.0	1.0
.0	.3	.2	.0	.0	.0	.5
.0	.1	.1	.0	.0	.0	.2
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	TOTAL PCT
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
1.3	5.4	1.2	.0	.0	.0	7.8	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	13.6	8.9	.3	.0	.0	.0	23.1	
1-2	4.3	27.8	5.3	.0	.0	.0	37.4	
3-4	.6	10.9	9.7	.7	.0	.0	21.9	
5-6	.2	2.6	7.1	.8	.0	.0	10.6	
7	.0	.4	5.0	1.1	.0	.0	6.5	
8-9	.0	.0	1.1	.4	.1	.0	1.6	
10-11	.0	.0	.3	.3	.0	.0	.6	
12	.0	.0	.1	.3	.0	.0	.3	
13-16	.0	.0	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	.1	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	18.9	50.6	26.8	3.6	.1	.0	100.0	1600

PERIOD: (OVER-ALL) 1949-1979

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.5	17.7	16.6	9.3	2.7	1.4	.4	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	2435	3
6-7	.2	2.2	7.6	6.8	3.2	1.2	.4	.3	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	1012	5
8-9	*	.5	2.4	1.7	1.2	.6	.2	.1	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	321	5
10-11	.0	.5	.8	1.0	.6	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	140	5
12-13	.0	.0	.8	.4	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	70	5
>13	.0	.0	.0	.5	.4	.1	*	*	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	58	7
INDET	6.9	1.2	2.5	1.0	.3	.1	.1	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	555	2
TOTAL	530	1017	1410	946	395	164	63	34	22	7	3	0	0	0	0	0	0	0	0	4591	4
PCT	11.5	22.2	30.7	20.6	8.6	3.6	1.4	.7	.5	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

ANNUAL

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1860-1979

AREA 0610 NICARAGUA SW COAST
9.5N 86.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OR TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.0	1.4	.7	.0	.0	.0	*	4.1	2.6	2.4	.2	*	1.1	*		89.7
NE	1.4	1.0	.4	.0	.0	.0	*	2.7	1.5	2.3	.2	*	1.2	.1		92.1
E	1.8	1.3	.6	.0	.0	.0	*	3.6	1.9	2.6	.1	*	1.6	.1		90.2
SE	3.1	2.1	1.5	.0	.0	.0	*	6.5	3.6	4.0	.3	.0	1.0	.1		85.0
S	4.0	2.3	1.8	.0	.0	.0	*	8.0	4.4	2.8	.2	.0	1.0	.1		83.8
SW	4.1	2.5	1.4	.0	.0	.0	*	8.0	4.0	3.0	.1	.0	.9	.1		84.2
W	3.2	2.1	1.2	.0	.0	.0	*	6.4	3.8	2.9	.2	*	.9	*		85.9
NW	2.6	1.5	.6	.0	.0	.0	*	4.9	3.3	2.6	.2	*	1.0	*		88.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.6	.9	.4	.0	.0	.0	.0	2.1	1.8	3.2	.3	*	2.4	.1		90.1
TOT PCT	2.7	1.7	1.0	.0	.0	.0	*	5.3	3.0	2.7	.2	*	1.2	.1		87.7
TOT OBS: 75395																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OR TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00E03	2.0	1.3	.8	.0	.0	.0	*	4.1	2.3	1.4	.1	.0	1.3	.1		90.8
06E09	2.9	1.9	1.2	.0	.0	.0	*	5.9	2.7	2.5	.2	*	1.3	.1		82.6
12E15	3.5	2.2	1.2	.0	.0	.0	*	6.8	3.7	2.2	.3	*	1.3	.1		85.8
18E21	2.3	1.5	.8	.0	.0	.0	*	4.5	3.0	.2	.2	*	1.1	.1		91.0
TOT PCT	2.7	1.7	1.0	.0	.0	.0	*	5.3	2.9	2.8	.2	*	1.2	.1		87.6
TOT OBS: 77696																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.6	5.6	2.4	.2	*	.0		9.8	8.2	8.2	7.1	6.6	9.7	12.2	12.3	11.7	12.3
NE	1.3	7.9	7.5	1.3	.1	*		18.1	11.2	15.5	14.5	13.3	17.7	20.1	19.6	23.1	19.0
E	1.2	5.8	4.6	.7	*	*		12.4	10.6	11.3	9.9	12.6	10.4	12.1	11.1	14.0	9.5
SE	.9	3.4	.9	*	*	*		5.2	7.3	6.0	7.4	6.6	6.4	3.7	5.2	6.6	5.3
S	1.3	4.6	1.2	*	.0	.0		7.1	7.0	9.9	10.0	7.8	7.3	5.2	6.0	5.8	7.1
SW	1.6	8.0	2.7	.1	*	.0		12.4	7.6	15.1	15.5	13.2	12.9	10.9	11.4	10.4	13.3
W	2.2	11.4	3.8	.1	*	.0		17.4	7.7	18.7	17.3	19.0	16.1	17.8	17.5	14.8	16.5
NW	1.4	5.6	1.3	*	*	.0		8.3	7.4	6.8	8.0	7.6	10.2	9.6	10.8	8.4	9.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.2							9.2	.0	8.7	10.4	13.3	9.2	8.4	6.2	7.1	7.2
TOT OBS							84584		8.3	18031	1622	18819	1762	18948	2487	20862	2053
TOT PCT	20.6	52.4	24.3	2.5	.1	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.4	4.6	.8	.1	*		9.8	8.2	8.1	6.9	12.2	11.7
NE	4.6	9.5	3.7	.3	*		18.1	11.2	15.4	13.6	20.0	22.7
E	3.9	6.2	2.1	.1	*		12.4	10.6	11.2	12.4	12.0	13.6
SE	2.8	2.2	.2	*	*		5.2	7.3	6.1	6.6	3.8	4.7
S	3.7	3.1	.3	*	.0		7.1	7.0	9.9	7.7	5.3	5.9
SW	5.3	6.5	.5	*	.0		12.4	7.6	15.1	13.2	10.9	10.7
W	7.5	9.2	.7	*	*		17.4	7.7	18.6	18.8	17.8	14.9
NW	4.3	3.8	.2	*	.0		8.3	7.4	6.9	7.8	9.8	8.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	9.2						9.2	.0	8.8	13.0	8.1	7.1
TOT OBS						84584		8.3	19653	20581	21435	22915
TOT PCT	45.7	45.1	8.5	.6	*		100.0		100.0	100.0	100.0	100.0

ANNUAL

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1860-1979

AREA CO10 NICARAGUA SW COAST
9.5N 86.7W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00E03	6.8	12.4	55.9	21.3	1.4	.1	*	7.7	100.0	19653
06E09	13.0	11.1	52.9	20.9	2.1	.1	.0	7.6	100.0	20541
12E15	6.1	10.8	52.2	25.8	5.0	.1	*	8.6	100.0	21435
18E21	7.1	11.5	49.3	28.3	3.4	.1	*	9.0	100.0	22915
TOT								8.3		84584
PCT	8.2	11.5	52.4	24.3	2.5	.1	*		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.4	1.9	2.4	.9		4.0
NE	9.4	3.5	4.2	1.9		3.6
E	5.4	7.4	3.6	1.3		3.7
SE	1.1	.9	1.9	1.1		4.5
S	1.0	1.2	2.9	2.0		5.0
SW	1.5	1.9	5.3	2.7		5.1
W	3.0	3.2	7.2	4.2		4.8
NW	2.4	1.6	2.8	1.2		4.5
VAR	.0	.0	.0	.0		.0
CALM	3.6	1.8	2.4	1.0		3.9
TOT OBS					62535	4.2
TOT PCT	31.8	18.3	33.1	16.8	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	*	*	.1	.4	.6	.3	.1	*	*	*	8.1	
NE	*	*	.1	.6	.8	.4	.2	.1	*	.1	16.1	
E	.1	*	.1	.6	.9	.4	.2	.1	*	*	10.4	
SE	*	*	.1	.4	.6	.2	.1	*	*	*	3.4	
S	.1	.1	.2	.9	1.0	.4	.1	*	*	*	4.3	
SW	.2	.1	.5	1.7	2.0	.7	.2	*	*	*	7.0	
W	.2	.1	.5	1.9	2.5	.9	.3	.1	*	*	11.0	
NW	.1	*	.1	.6	.8	.3	.1	*	*	*	5.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	*	.1	.5	.7	.3	.1	*	*	*	7.3	
TOT OBS												62535
TOT PCT	.7	.4	2.0	7.6	9.8	3.9	1.5	.5	.3	.3	73.2	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	.9	1.0	1.0	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	5.4	6.1	6.3	6.3	6.3	6.3	6.3	6.3
= OR >1000	13.7	15.8	16.0	16.1	16.1	16.1	16.1	16.1
= OR >600	19.4	23.0	23.5	23.6	23.7	23.7	23.7	23.7
= OR >300	20.6	24.7	25.4	25.6	25.6	25.6	25.6	25.6
= OR >150	20.8	25.0	25.8	25.9	26.0	26.0	26.0	26.0
= OR > 0	21.0	25.5	26.3	26.5	26.6	26.6	26.7	26.7

TOTAL NUMBER OF OBS: 64276 PCT FREQ NH <5/8: 73.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
19.5	15.3	15.0	17.1	10.1	6.6	6.9	5.4	7.6	.4	67995

ANNUAL

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1960-1979

AREA 0010 NICARAGUA SW COAST
9.5N 86.7W

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	*	*	*	*	*	*	*	.0	.0	.1	
	NO PCP	*	*	*	.0	*	*	*	*	.0	*	*	
	TOT %	*	*	*	*	*	*	*	*	.0	*	.1	
1/2<1	PCP	*	*	*	*	*	*	*	*	.0	*	.1	
	NO PCP	.0	*	*	*	*	*	*	*	.0	*	*	
	TOT %	*	*	*	*	*	*	*	*	.0	*	.1	
1<2	PCP	*	*	*	*	*	.1	.1	*	.0	*	.2	
	NO PCP	*	*	*	*	*	*	*	*	.0	*	.1	
	TOT %	*	*	*	*	*	.1	.1	*	.0	*	.3	
2<5	PCP	*	*	*	*	.1	.2	.2	*	.0	*	.6	
	NO PCP	*	.1	.1	*	.1	.1	.1	*	.0	*	.5	
	TOT %	.1	.1	.1	.1	.2	.3	.3	.1	.0	.1	1.2	
5<10	PCP	.1	.1	.2	.1	.3	.5	.6	.2	.0	.1	2.1	
	NO PCP	.5	.9	.7	.4	.6	1.1	1.4	.6	.0	.6	6.8	
	TOT %	.6	1.0	.9	.5	.8	1.6	2.0	.7	.0	.6	8.8	
10+	PCP	.1	.2	.2	.2	.3	.5	.6	.2	.0	.1	2.3	
	NO PCP	9.0	17.0	11.5	4.3	5.8	9.9	14.6	7.2	.0	8.1	87.2	
	TOT %	9.1	17.1	11.6	4.5	6.1	10.4	15.1	7.3	.0	8.2	89.5	
	TOT OBS												75202
	TOT PCT	9.8	18.3	12.6	5.1	7.1	12.4	17.5	8.2	.0	8.9	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	*	*	
	4-10	*	*	*	*	*	*	*	*	.0		.1	
	11-21	*	*	*	*	*	*	*	*	.0		.1	
	22+	*	*	*	.0	*	*	.0	.0	.0		*	
	TOT %	*	*	*	*	*	*	*	*	.0	*	.2	
1/2<1	0-3	*	*	*	*	.0	*	.0	*	.0	*	*	
	4-10	*	*	*	*	*	*	*	*	.0		.1	
	11-21	.0	*	*	*	*	*	*	*	.0		*	
	22+	.0	.0	*	.0	.0	*	*	*	.0		*	
	TOT %	*	*	*	*	*	*	*	*	.0	*	.1	
1<2	0-3	*	*	*	*	*	*	*	*	.0	*	.1	
	4-10	*	*	*	*	*	.1	*	*	.0		.2	
	11-21	*	*	*	*	*	*	*	*	.0		.1	
	22+	*	.0	*	*	*	*	*	*	.0		*	
	TOT %	*	*	*	*	*	.1	.1	*	.0	*	.4	
2<5	0-3	*	*	*	*	*	*	*	*	.0	.1	.2	
	4-10	.1	.1	.1	*	.1	.2	.1	.1	.0		.7	
	11-21	*	*	*	*	*	.1	.1	*	.0		.4	
	22+	*	*	*	*	*	*	*	*	.0		.1	
	TOT %	.1	.1	.2	.1	.2	.3	.3	.1	.0	.1	1.4	
5<10	0-3	.1	.1	.1	.1	.1	.1	.2	.1	.0	.7	1.5	
	4-10	.4	.5	.4	.3	.5	.9	1.1	.4	.0		4.5	
	11-21	.1	.4	.3	.1	.2	.6	.7	.2	.0		2.6	
	22+	*	.1	.1	*	*	*	.1	*	.0		.2	
	TOT %	.6	1.0	.9	.6	.8	1.6	2.0	.7	.0	.7	8.8	
10+	0-3	1.4	1.1	1.1	.8	1.1	1.3	1.9	1.2	.0	8.3	18.2	
	4-10	5.2	7.4	5.4	2.9	4.0	6.9	10.0	5.0	.0		46.8	
	11-21	2.3	7.2	4.4	.7	.9	2.0	3.0	1.1	.0		21.6	
	22+	.2	1.3	.7	*	*	.1	.1	*	.0		2.4	
	TOT %	9.1	17.1	11.6	4.5	6.0	10.3	15.0	7.3	.0	8.3	89.0	
	TOT OBS												78610
	TOT PCT	9.8	18.3	12.6	5.2	7.1	12.4	17.4	8.2	.0	9.0	100.0	

ANNUAL

PERIOD: (PRIMARY) 1952-1976
(OVER-ALL) 1960-1979

AREA 0010 NICARAGUA SW COAST
9.5N 86.7W

TABLE 10

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

HOUR (GMT)	COO 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.5	.4	1.6	6.5	8.8	3.5	1.5	.5	.3	.4	24.1	75.9	16725
06E09	1.0	.4	1.7	7.4	9.9	3.4	1.5	.4	.3	.3	26.4	73.6	15457
12E15	.6	.4	2.3	8.7	10.0	3.7	1.4	.3	.2	.3	28.1	71.9	17420
18E21	.5	.3	1.8	6.7	9.4	3.8	1.5	.5	.3	.2	24.9	75.1	17256
TOT PCT	.7	.4	1.9	7.3	9.5	3.6	1.5	.4	.3	.3	25.8	74.2	66658 100.0

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	.5	1.2	7.6	90.5	19161
06E09	.1	.1	.3	1.5	10.3	87.6	19682
12E15	.2	.2	.4	1.7	9.7	87.9	20826
18E21	.2	.1	.4	1.3	7.4	90.2	21278
TOT PCT	.2	.1	.4	1.4	8.8	89.3	80947 100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.6	2.7	9.9	15.2	74.9	16063
06E09	1.1	3.3	11.7	16.0	72.3	14816
12E15	.7	3.6	13.1	16.2	70.7	16760
18E21	.5	2.7	10.0	15.8	74.2	16637
TOT PCT	.7	3.1	11.2	15.8	73.0	64276 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY 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		*
90/94	.0	*	*	.1	.4	.2	.1	*		.8
85/89	.0	*	.1	.4	2.3	4.8	1.4	.3		9.2
80/84	.0	.0	*	.2	4.2	21.6	27.7	5.6		59.4
75/79	.0	.0	.0	*	.4	4.0	13.9	10.7		29.0
70/74	.0	.0	.0	.0	*	.1	.5	1.0		1.5
65/69	.0	.0	.0	.0	.0	*	*	*		*
TOTAL PCT	.0	*	.1	.9	7.4	30.6	43.5	17.5	65791	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

TEMP F	N	NE	E	SE	S	SW	W	NW	VAR	CALM
95/99	*	*	*	*	*	*	*	*	.0	*
90/94	.1	.1	.1	.1	*	.1	.1	.1	.0	.1
85/89	1.1	1.7	1.3	.5	.6	.8	1.3	.9	.0	.9
80/84	5.8	10.7	7.8	3.1	4.1	6.9	10.3	4.8	.0	5.9
75/79	2.5	5.2	3.1	1.2	2.3	4.5	5.7	2.1	.0	2.3
70/74	.2	.5	.2	*	.1	.1	.2	.1	.0	.1
65/69	*	*	*	*	*	.0	.0	*	.0	*
PCT	9.7	18.3	12.5	5.0	7.1	12.4	17.6	8.0	.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	98	87	85	81	77	75	63	81.2	20159
06E09	95	85	83	80	76	74	66	80.0	21157
12E15	95	85	83	80	76	73	66	79.8	21843
18E21	97	91	88	83	77	75	68	82.6	23329
TOT	98	89	86	81	76	74	63	80.9	86488

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.7	6.3	34.7	44.2	14.1	81	16576
06E09	.0	.2	3.3	23.4	50.0	23.1	84	16E09
12E15	.0	.5	4.3	23.2	48.4	23.6	84	17466
18E21	.0	2.6	15.1	41.3	31.6	9.5	78	17226
TOT	0	674	4928	20726	29601	11944	82	67873

PERIOD: (PRIMARY) 1952-1976
(OVER-ALL) 1960-1979

AREA 0010 NICARAGUA SW COAST
9.5N 86.7W

TABLE 17

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

AIR-SEA TMP DIF	65 64	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	% FOG	NO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
17/19	.0	.0	.0	.0	*	*	*	*	17	.0	*
14/16	.0	.0	.0	*	*	*	*	*	57	.0	.1
11/13	.0	.0	.0	*	.1	.1	.1	*	223	*	.3
9/10	.0	.0	*	.1	.2	.2	.1	*	438	.0	.6
7/8	.0	*	*	.2	.4	.5	.2	*	946	*	1.3
6	.0	*	*	.2	.4	.4	.2	*	822	*	1.2
5	.0	*	.1	.4	.8	.8	.2	*	1577	*	2.2
4	.0	*	.1	.6	1.3	1.0	.2	.0	2252	*	3.2
3	.0	*	.2	.7	1.5	1.1	.1	.0	2522	*	3.6
2	.0	*	.3	1.5	3.6	1.4	*	.0	4794	*	6.8
1	.0	*	.4	2.0	4.3	1.1	*	.0	5541	*	7.8
0	*	*	.5	4.4	7.9	1.1	*	.0	9779	*	13.8
-1	*	*	.4	4.8	7.2	.7	*	.0	9191	*	13.0
-2	*	*	.5	6.7	7.3	.3	*	.0	10423	*	14.7
-3	.0	*	.4	5.5	4.7	.1	.0	.0	7276	*	10.2
-4	.0	*	.6	5.1	2.8	.1	*	.0	6140	*	8.6
-5	*	*	.6	3.5	1.5	*	.0	.0	3961	*	5.6
-6	.0	*	.6	2.0	.4	*	*	.0	2141	*	3.0
-7/-8	*	*	.4	1.5	.4	*	.0	.0	1891	*	2.6
-9/-10	*	*	.4	.3	.1	.0	.0	.0	559	.0	.8
-11/-13	*	*	.1	.1	*	.0	.0	.0	189	*	.3
-14/-16	*	*	*	*	*	.0	.0	.0	23	.0	*
-17/-19	.0	.0	*	.0	.0	.0	.0	.0	1	.0	*
TOTAL									70767		
PCT	*	.4	5.8	39.5	44.2	8.8	1.2	.1	100.0	.7	99.8

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.2	*	.0	.0	.0	2.0
1-2	.4	3.2	.6	.0	.0	.0	4.1
3-4	.1	1.1	1.1	*	.0	.0	2.3
5-6	*	.2	.5	*	*	.0	.8
7	.0	*	.2	.1	.0	.0	.3
8-9	.0	*	*	*	*	.0	.1
10-11	.0	.0	*	*	.0	.0	*
12	.0	.0	*	*	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	5.6	2.5	.2	*	.0	9.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.3	.1	.0	.0	.0	1.9
1-2	.3	3.4	1.3	.0	.0	.0	5.6
3-4	.1	2.0	2.6	.2	.0	.0	5.0
5-6	*	.4	2.3	.3	.0	.0	3.0
7	.0	.1	.7	.4	.0	.0	1.3
8-9	.0	.0	.1	.2	.0	.0	.5
10-11	.0	.0	*	.1	.0	.0	.2
12	.0	.0	*	*	.0	.0	*
13-16	.0	.0	*	*	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	7.7	7.4	1.3	.1	*	17.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.9	*	.0	.0	.0	1.4
1-2	.3	2.7	.9	.0	.0	.0	3.9
3-4	*	1.6	1.5	.1	.0	.0	3.0
5-6	*	.3	1.0	.2	*	.0	1.5
7	.0	.1	.5	.1	.0	.0	.7
8-9	.0	*	.1	.1	.0	.0	.2
10-11	.0	.0	*	*	.0	.0	.1
12	.0	.0	*	*	.0	.0	*
13-16	.0	.0	*	*	.0	.0	*
17-19	.0	.0	.0	*	.0	.0	*
20-22	.0	.0	.0	*	.0	.0	*
23-25	.0	.0	.0	*	.0	.0	*
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	5.4	4.0	.5	*	.0	10.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.7	*	.0	.0	.0	1.0
1-2	.2	1.6	.3	.0	.0	.0	2.0
3-4	*	.5	.3	*	.0	.0	.9
5-6	*	.1	.1	*	.0	.0	.3
7	.0	.1	*	*	.0	.0	.1
8-9	.0	*	*	*	.0	.0	*
10-11	.0	.0	*	*	.0	.0	*
12	.0	.0	*	*	.0	.0	*
13-16	.0	.0	*	*	.0	.0	*
17-19	.0	.0	.0	*	.0	.0	*
20-22	.0	.0	.0	*	.0	.0	*
23-25	.0	.0	.0	*	.0	.0	*
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	3.0	.8	*	.0	.0	4.5

PERIOD: (OVER-ALL) 1949-1979 ANNUAL AREA 0010 NICARAGUA SW COAST 9.5N 86.7W

TABLE 18 (CONT)

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

c

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.0	.4	.0	.0	.0	1.6
1-2	.3	2.5	.4	.0	.0	.0	3.2
3-4	.1	1.0	.4	.0	.0	.0	1.7
5-6	.0	.1	.2	.0	.0	.0	.4
7	.0	.0	.1	.0	.0	.0	.1
8	.0	.0	.0	.0	.0	.0	.0
10-12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	4.7	1.4	.1	.0	.0	7.0

Sa

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.6	.4	.0	.0	.0	2.2
1-2	.6	4.7	1.2	.0	.0	.0	5.4
3-4	.5	2.3	1.4	.1	.0	.0	3.4
5-6	.1	.4	.9	.1	.0	.0	1.4
7	.0	.1	.2	.0	.0	.0	.3
8	.0	.0	.1	.0	.0	.0	.1
10-12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	9.2	3.4	.1	.0	.0	14.0

b

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	2.5	.1	.0	.0	.0	3.5
1-2	.5	6.6	1.3	.0	.0	.0	8.5
3-4	.1	2.6	2.0	.0	.0	.0	5.0
5-6	.0	.6	1.0	.0	.0	.0	1.6
7	.0	.1	.3	.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	1.6	12.4	5.1	.1	.0	.0	19.4

Nb

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.4	1.9	.2	.0	.0	.0	3.5	
1-2	.4	3.1	.5	.0	.0	.0	4.0	
3-4	.1	1.1	.6	.0	.0	.0	1.7	
5-6	.0	.1	.2	.0	.0	.0	.3	
7	.0	.0	.1	.0	.0	.0	.1	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.1	5.9	1.4	.0	.0	.0	8.4	91.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	14.5	10.6	.3	.0	.0	.0	25.5	
1-2	3.7	27.7	5.8	.0	.0	.0	37.3	
3-4	.6	11.9	9.9	.4	.0	.0	22.8	
5-6	.2	2.4	6.3	.6	.0	.0	9.5	
7	.0	.4	2.1	.6	.0	.0	3.2	
8-9	.0	.1	.6	.2	.0	.0	1.0	
10-11	.0	.0	.1	.2	.0	.0	.4	
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	19.1	53.3	25.3	2.2	.1	.0	100.0	18683

PERIOD: (OVER-ALL) 1949-1979 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.4	16.4	16.5	7.6	2.7	.9	.4	.1	.1	•	•	.0	.0	.0	.0	.0	.0	.0	.0	29321	3
6-7	.2	2.4	7.3	7.0	3.2	1.1	.5	.1	.1	•	•	•	.0	.0	.0	.0	.0	.0	.0	12853	5
8-9	•	.8	2.6	2.6	1.5	.6	.2	.1	.1	•	•	.0	.0	.0	.0	.0	.0	.0	.0	5110	5
10-11	.0	.2	1.0	.4	.2	.1	•	•	•	•	•	•	.0	.0	.0	.0	.0	.0	.0	1956	5
12-13	.0	.0	.4	.2	.1	•	•	•	•	•	.0	.0	.0	.0	.0	.0	.0	.0	.0	1093	5
>13	.0	•	.0	.2	.1	.1	•	•	•	•	•	•	.0	.0	.0	.0	.0	.0	.0	569	7
INDET	7.4	1.5	2.0	1.1	.5	.2	.1	•	•	•	•	•	.0	.0	.0	.0	.0	.0	.0	7427	2
TOTAL PCT	12.9	21.8	30.3	20.3	8.8	3.2	1.5	.5	.4	.1	•	•	.0	.0	.0	.0	.0	.0	.0	58329	4
																				100.0	

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1960-1979

AREA 0010 NICARAGUA SW COAST
9.5N 86.7W

TABLE 20

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

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	*	.0	.0	.0	*	.0	.0	.0	.0	3	*
93/94	.0	*	*	.1	*	*	.0	*	.0	.0	.0	.0	15	*
91/92	.1	.1	.1	.2	.0	.1	.2	.2	.1	.1	.0	*	51	.1
89/90	.3	.2	.7	1.5	1.0	.7	.5	.5	.3	.2	.1	.2	486	.6
87/88	1.1	1.7	4.0	7.1	7.9	3.5	1.9	2.1	1.7	1.4	.6	.6	2288	2.9
85/86	5.1	9.1	17.1	24.6	26.7	16.4	11.5	11.6	10.5	7.5	3.9	4.1	10020	12.5
83/84	17.7	18.7	22.3	26.9	33.5	33.8	32.2	30.5	28.4	22.6	16.1	17.2	20112	25.1
81/82	28.9	25.5	22.1	20.2	22.0	34.4	38.4	37.2	37.7	36.6	35.5	32.7	24795	30.9
79/80	19.7	17.9	13.3	9.7	5.4	8.7	11.6	12.6	15.8	22.0	27.2	22.4	12310	15.4
77/78	15.1	12.0	8.9	5.2	1.8	1.7	2.6	3.9	4.0	7.2	12.0	12.6	5391	6.7
75/76	6.9	6.7	5.4	2.5	.7	.5	.6	.8	1.1	1.7	3.2	4.0	2404	3.0
73/74	4.7	4.7	3.3	1.2	.7	.2	.3	.4	.3	.4	.8	1.5	1242	1.6
71/72	2.4	2.1	1.5	.3	.1	.0	*	.1	*	.2	.2	1.0	523	.7
69/70	1.2	1.5	.6	.2	*	.0	*	*	*	.1	.3	.4	288	.4
67/68	.6	.6	.1	.1	.0	.0	.0	.0	.0	*	*	.1	96	.1
65/66	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	*
63/64	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	*
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	6493	6324	6983	6583	7320	6571	6819	6781	6622	6593	6684	6250	80003	100.0
MEAN	80.2	80.2	81.5	82.9	83.7	82.9	82.4	82.3	82.1	81.5	80.7	80.4	81.7	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OPS
JAN	1010	1011	1011	1009	1011	1012	1011	1009	1011	6551
FEB	1009	1010	1011	1010	1010	1012	1011	1010	1011	6395
MAR	1009	1010	1011	1009	1010	1011	1011	1009	1010	7099
APR	1009	1010	1011	1009	1010	1011	1011	1009	1010	6798
MAY	1009	1010	1011	1009	1010	1011	1011	1009	1010	7317
JUN	1010	1011	1011	1010	1010	1011	1011	1010	1011	6694
JUL	1010	1011	1011	1010	1011	1011	1011	1010	1011	7062
AUG	1010	1011	1011	1010	1011	1011	1011	1010	1011	6915
SEP	1010	1011	1011	1010	1010	1012	1011	1010	1011	6693
OCT	1010	1011	1011	1009	1011	1011	1011	1009	1011	6807
NOV	1010	1011	1011	1009	1011	1011	1011	1009	1011	6554
DEC	1010	1011	1011	1009	1011	1011	1011	1009	1011	6435
ANN	1010	1011	1011	1009	1011	1011	1011	1009	1011	81310
OBS	18142	1020	18479	1757	19009	1667	19978	1557		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	996	1004	1007	1009	1011	1012	1014	1016	1022
FEB	993	1004	1007	1009	1011	1012	1014	1016	1023
MAR	997	1004	1007	1009	1010	1012	1014	1015	1023
APR	997	1004	1007	1009	1010	1012	1013	1015	1021
MAY	996	1004	1007	1009	1010	1012	1013	1015	1021
JUN	1000	1004	1009	1010	1011	1012	1014	1015	1022
JUL	994	1005	1008	1010	1011	1012	1014	1015	1023
AUG	994	1005	1008	1010	1011	1012	1013	1015	1020
SEP	997	1006	1008	1010	1011	1012	1013	1015	1019
OCT	1000	1006	1008	1010	1011	1012	1013	1015	1021
NOV	998	1005	1008	1009	1011	1012	1013	1015	1020
DEC	999	1005	1007	1009	1011	1012	1014	1016	1023

JANUARY

PERIOD: (PRIMARY) 1949-1979
(OVER-ALL) 1857-1979

AREA 0011 PUNTA BURICA
7.6N 83.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.6	.2	.4	.0	.0	.0	.0	1.2	.9	.6	.9	.0	.1		.0	96.2
NE	.7	.6	.1	.0	.0	.0	.0	1.4	.7	.5	.3	.0	.8		.1	96.2
E	.6	.5	.0	.0	.0	.0	.0	1.1	.4	1.5	.2	.0	1.1		.0	95.6
SE	2.1	.1	.1	.0	.0	.0	.0	2.3	2.5	1.5	.4	.C	.4		.C	93.2
S	1.3	2.0	.6	.0	.0	.0	.0	3.9	3.9	1.2	.1	.C	.3		.C	90.6
SW	1.9	1.5	.9	.3	.0	.3	.0	3.3	2.1	1.2	.1	.0	.3		.0	92.9
W	.7	1.2	.6	.0	.0	.0	.0	2.5	1.8	1.1	.3	.0	.2		.0	94.1
NW	.5	.7	.5	.0	.0	.0	.0	1.6	2.3	1.0	.2	.C	.1		.1	94.7
VAR	.0	.0	.0	.0	.0	.0	.C	.C	.0	.0	.0	.0	.0		.0	.0
CALM	.3	.5	.5	.0	.0	.0	.0	1.1	2.0	1.1	.0	.C	.5		.0	95.6
TOT PCT	.8	.5	.4	.0	.0	.0	.0	2.1	1.8	1.0	.3	.C	.4		*	94.5
TOT OBS:	6511															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00E03	.5	.4	.1	.0	.0	.0	.0	1.0	.9	.9	.1	.0	.4		.1	96.7
06E09	1.3	.5	.4	.0	.0	.0	.0	2.1	1.9	2.5	.1	.0	.7		.1	92.7
12E15	1.2	1.5	.7	.0	.0	.0	.0	3.3	3.4	1.0	.3	.C	.3		.0	91.7
18E21	.5	.9	.4	.0	.0	.0	.0	1.8	1.2	.1	.5	.C	.2		.0	96.1
TOT PCT	.8	.9	.4	.0	.0	.0	.0	2.1	1.8	1.0	.3	.C	.4		*	94.4
TOT OBS:	6779															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	6.9	2.0	.1	.0	.0		10.7	7.9	5.2	5.8	8.0	10.6	16.7	7.6	12.7	9.0
NE	1.6	6.9	3.1	.2	.0	.0		11.7	8.8	6.2	2.5	7.3	8.5	17.3	8.6	15.6	10.2
E	1.3	3.9	.9	*	*	.0		6.0	7.1	3.0	4.9	5.0	3.0	7.4	6.8	8.3	5.9
SE	1.2	2.8	.3	.0	.0	.0		4.4	5.6	4.4	2.3	4.9	2.4	3.9	4.8	4.6	5.1
S	1.7	4.9	.4	.0	.0	.0		7.0	5.9	10.5	9.3	8.2	6.6	3.8	7.0	5.9	7.9
SW	2.3	6.6	.8	.0	.0	.0		11.7	6.1	19.0	16.0	13.0	13.3	7.3	8.8	8.7	10.8
W	4.4	18.0	2.2	*	.0	.0		24.6	6.5	34.5	35.2	25.1	27.4	18.6	27.6	19.4	29.9
NW	2.3	10.2	1.2	*	.0	.0		13.6	6.6	10.8	17.6	12.4	17.9	15.1	19.9	14.3	14.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.3							10.3	.0	6.5	6.5	16.2	10.3	9.9	8.8	10.5	7.0
TOT OBS	2006	4693	815	24	1	0	7536		6.2	1687	108	1343	194	1710	181	2063	257
TOT PCT	26.6	62.2	10.8	.3	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.7	5.5	.5	*	.0		10.7	7.9	5.2	8.3	15.8	12.3
NE	4.5	6.2	.9	*	.0		11.7	8.8	6.0	7.4	16.5	15.0
E	3.2	2.7	.1	*	.0		6.0	7.2	3.1	4.7	7.3	8.1
SE	3.0	1.3	*	.0	.0		4.4	5.6	4.2	4.6	4.0	4.6
S	4.8	2.1	.1	.0	.0		7.0	5.9	10.4	8.0	4.1	6.1
SW	7.7	3.9	.1	.0	.0		11.7	6.1	18.8	13.1	7.5	8.9
W	14.5	10.0	.1	.0	.0		24.6	6.5	34.6	25.4	19.5	20.5
NW	7.8	5.8	.1	*	.0		13.6	6.6	11.2	13.1	15.6	14.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	10.3						10.3	.0	6.5	15.4	9.8	10.1
TOT OBS	4560	2828	141	7	0	7536		6.2	1788	1537	1891	2320
TOT PCT	60.5	37.5	1.9	.1	.0		100.0		100.0	100.0	100.0	100.0

JANUARY

PERIOD: (PRIMARY) 1949-1979
(OVER-ALL) 1857-1979

AREA 9011 PUNTA BURICA
7.6N 83.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00E03	6.5	16.5	68.7	8.0	.2	.0	.0	6.1	100.0	1788
06E09	15.4	15.9	56.1	12.0	.5	.1	.0	5.8	100.0	1537
12E15	9.8	13.8	62.7	13.4	.3	.0	.0	6.6	100.0	1891
18E21	10.1	18.6	60.9	10.1	.3	.0	.0	6.0	100.0	2320
TOT	774	1232	4690	815	24	1	0	6.2		7536
PCT	10.3	16.3	62.2	10.8	.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	5.0	2.2	1.9	.5		2.5
NE	6.6	2.3	1.4	.6		2.6
E	3.1	1.8	1.3	.1		2.9
SE	1.6	1.0	1.6	.4		4.0
S	2.3	1.6	2.1	1.1		4.2
SW	3.7	2.7	4.1	1.4		4.2
W	9.0	6.6	7.5	2.0		3.7
NW	4.8	4.1	3.4	.8		3.5
VAR	.0	.0	.0	.0		.0
CALM	5.0	3.0	2.4	.6		3.1
TOT OBS	2129	1319	1356	387	5186	1.5
TOT PCT	41.1	25.3	26.1	7.5	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	*	.0	.1	.3	.5	.2	*	.1	*	.1	8.4	
NE	*	.0	*	.2	.5	.2	.1	*	*	*	10.3	
E	.0	.0	.1	.2	.2	.1	*	.0	*	.0	5.7	
SE	*	*	.1	.3	.3	.1	.1	*	.0	*	3.6	
S	*	*	.1	.5	.6	.2	*	*	.0	.1	5.5	
SW	.1	*	.1	.7	1.3	.4	.1	*	.0	*	9.1	
W	.1	*	.2	1.3	1.8	.8	.3	*	*	*	20.4	
NW	.0	*	.1	.5	.7	.3	.1	*	*	*	11.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	*	.1	.4	.6	.2	.1	*	*	.0	9.5	
TOT OBS	15	5	44	224	342	134	50	17	8	12	4339	5186
TOT PCT	.3	.1	.8	4.3	6.6	2.6	1.0	.3	.2	.2	83.7	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >5OYD	= OR >0
= OR >6500	.4	.4	.4	.4	.4	.4	.4	.4
= OR >5000	.6	.6	.7	.7	.7	.7	.7	.7
= OR >3500	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
= OR >2000	3.8	4.1	4.1	4.1	4.1	4.1	4.1	4.1
= OR >1000	9.9	10.5	10.6	10.6	10.6	10.6	10.6	10.6
= OR >600	13.5	14.6	14.9	14.9	14.9	14.9	14.9	14.9
= OR >300	14.2	15.5	15.7	15.7	15.8	15.8	15.8	15.8
= OR >150	14.3	15.5	15.8	15.8	15.9	15.9	15.9	15.9
= OR > 0	14.4	15.8	16.1	16.1	16.1	16.2	16.2	16.2
TOTAL	777	848	865	867	869	870	870	870

TOTAL NUMBER OF OBS: 5382

PCT FREQ NM <5/8: 83.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
15.0	22.8	22.3	14.4	9.2	5.2	4.7	3.3	2.8	.2	5767

PERIOD: (PRIMARY) 1949-1979
(OVER-ALL) 1957-1979

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TABLE 6

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	*	.0	.0	.0	*	*	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	*	.0	.0	.0	*	*	.0	.0	.0	.1	
1/2<1	PCP	*	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
1<2	PCP	*	.0	.0	*	*	*	*	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	
	TOT %	*	.0	.0	*	*	*	*	.0	.0	.0	.1	
2<5	PCP	.0	*	.0	.0	*	*	.1	*	.0	.0	.2	
	NO PCP	*	*	.1	.0	.0	*	.1	.1	.0	.0	.4	
	TOT %	*	.1	.1	.0	*	.1	.2	.1	.0	.0	.5	
5<10	PCP	*	.1	*	*	.1	.1	.1	.1	.0	*	.6	
	NO PCP	.8	.7	.2	.3	.3	.6	.8	.7	.0	.5	5.0	
	TOT %	.9	.7	.2	.3	.4	.8	1.0	.8	.0	.5	5.6	
10+	PCP	.1	*	.1	.1	.2	.2	.3	.1	.0	.1	1.1	
	NO PCP	9.3	10.8	6.0	3.9	6.3	10.7	22.9	13.0	.0	9.6	92.6	
	TOT %	9.4	10.8	6.1	4.0	6.5	11.0	23.2	13.1	.0	9.7	93.7	
	TOT OBS												6656
	TOT PCT	10.1	11.7	6.4	4.4	6.9	11.8	24.4	14.0	.0	10.2	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	4-10	.0	*	*	.0	*	*	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	*	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	*	.0	*	*	*	.0	.0	.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		*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
1<2	0-3	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	
	4-10	*	.0	.0	*	*	*	*	*	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	*	.0	.0		*	
	TOT %	*	.0	.0	*	*	*	*	*	.0	.0	.2	
2<5	0-3	.0	*	*	*	*	*	*	*	.0	*	.2	
	4-10	*	.1	*	*	*	*	.1	.1	.0		.4	
	11-21	.0	.0	.0	.0	.0	*	*	*	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.1	.1	*	*	.1	.2	.1	.0	*	.7	
5<10	0-3	.1	.1	.1	.1	.1	.1	.3	.2	.0	.5	1.6	
	4-10	.6	.4	.1	.2	.2	.6	.6	.5	.0		3.1	
	11-21	.1	.2	*	*	.1	.1	.1	.1	.0		.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.8	.7	.2	.3	.4	.7	.9	.8	.0	.5	5.5	
10+	0-3	1.5	1.5	1.2	1.1	1.6	2.2	3.9	2.0	.0	9.8	24.7	
	4-10	6.1	6.3	3.8	2.6	4.5	8.0	17.2	9.7	.0		58.2	
	11-21	1.9	2.9	.9	.3	.9	.7	2.1	1.2	.0		10.3	
	22+	.1	.2	*	.0	.0	.0	.0	*	.0		.3	
	TOT %	9.6	10.8	5.9	3.9	6.5	11.0	23.2	12.9	.0	9.8	93.6	
	TOT OBS												6823
	TOT PCT	10.4	11.7	6.2	4.3	7.0	11.8	24.4	13.9	.0	10.3	100.0	

PERIOD: (PRIMARY) 1949-1979
(OVER-ALL) 1857-1979

AREA 0011 PUNTA BURICA
7.6N 83.0W

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	MM <5/8 ANY HGT	TOTAL OBS
00E03	.1	.1	.6	3.7	5.2	2.2	.9	.3	.0	.2	13.3	86.7	1439
06E09	.6	.1	.6	4.9	6.7	3.1	.6	.2	.5	.5	18.4	81.6	1100
12E15	.1	.1	1.2	5.1	7.2	2.6	1.1	.1	.1	.1	17.7	82.3	1465
18E21	.2	.1	.7	3.0	5.9	2.0	.9	.4	.1	.2	13.6	86.4	1652
TOT	16	5	47	232	352	137	53	16	8	13	877	4779	5656
PCT	.3	.1	.8	4.1	6.2	2.4	.9	.2	.1	.2	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
00E03	.1	.1	.2	.4	4.5	94.8	1704
06E09	.3	.1	.5	.6	6.3	92.3	1444
12E15	.0	.0	.0	1.3	6.3	92.4	1795
18E21	.1	.0	*	.5	5.4	93.9	2148
TOT	7	2	11	49	396	6626	7091
PCT	.1	*	.2	.7	5.6	93.4	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND/OR	MM <5/8 AND 5+	TOTAL OBS
00E03	.1	1.0	4.8	9.2	86.0	1362
06E09	.9	1.9	7.4	12.2	80.4	1050
12E15	.1	1.5	7.4	11.3	81.3	1401
18E21	.3	1.0	4.4	9.7	85.4	1569
TOT	15	70	317	563	4502	5382
PCT	.3	1.3	5.9	10.5	83.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	*	.0	*	.0	.0	.0	.0	3	.1
90/94	.0	.0	*	.2	.5	.2	.1	*	54	1.0
85/89	.0	.0	*	.7	4.2	5.5	.9	.4	667	11.8
80/84	.0	.0	*	.6	9.8	33.8	22.2	9.3	4004	70.7
75/79	.0	.0	.0	.0	.3	4.6	8.0	3.3	919	16.2
70/74	.0	.0	.0	.0	.0	*	*	.2	14	.2
TOTAL	0	1	4	25	840	2493	1770	468	5661	100.0
PCT	.0	*	.1	1.5	14.8	44.0	31.3	8.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	*	*	.0	.0	.0	.0	*	*	.0	.0
	.1	.1	.2	*	*	.1	.1	.2	.0	.2
	1.1	1.9	1.1	.6	.7	1.1	2.7	1.6	.0	1.0
	7.7	8.1	4.2	2.6	4.9	8.2	17.6	9.5	.0	7.3
	1.4	1.8	.9	.9	1.3	2.2	3.8	2.2	.0	1.8
	*	.1	*	.0	.0	*	*	*	.0	.1
	10.3	12.0	6.4	4.5	7.0	11.6	24.4	13.4	.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
00E03	92	87	85	82	79	77	70	81.8	1849
06E09	89	85	83	81	77	75	73	80.5	1425
12E15	97	86	83	80	77	75	69	80.3	1904
18E21	95	92	89	83	79	76	68	83.5	2379
TOT	97	90	86	81	78	75	69	81.7	7777

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.9	11.2	50.7	30.6	6.6	78	1475
06E09	.0	.3	6.3	49.6	42.7	10.0	80	1170
12E15	.7	.6	9.1	48.4	37.3	12.6	80	1521
18E21	.0	3.8	20.1	44.2	19.0	4.9	74	1758
TOT	0	93	865	2607	1848	491	78	5924

PERIOD: (PRIMARY) 1949-1979 AREA CC11 PUNTA BURICA
(OVER-ALL) 1857-1979 TABLE 17 7.6N 83.0W

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

AIR TEMP	65	69	73	77	81	85	89	>92	TOT	#	#C
DIF	68	72	76	80	84	88	92			FOG	FOG
14/16	.0	.0	.0	.0	*	.0	.0	.0	1	.0	*
11/13	.0	.0	.0	.0	.0	*	.1	*	10	.0	.2
9/10	.0	.0	.0	*	.2	.1	.2	*	33	.0	.5
7/8	.0	.0	.0	.1	.2	.5	.5	*	77	.0	1.2
6	.0	.0	.0	.1	.1	.2	.3	*	76	*	1.2
5	.0	.0	.0	.2	.4	1.1	.3	.0	130	.0	2.1
4	.0	.0	.0	.2	1.4	1.3	.2	.0	144	.0	2.1
3	.0	.0	.0	.2	1.4	1.5	.1	.0	144	.0	2.1
2	.0	.0	*	.6	3.7	1.8	.1	.0	383	*	6.1
1	.0	.0	*	.8	5.1	1.7	*	.0	488	.1	7.8
0	.0	*	*	3.0	10.2	1.7	.0	.0	697	.1	14.4
-1	.0	.0	*	4.2	10.0	.6	*	.0	920	*	14.8
-2	.0	.0	.1	4.7	9.7	.3	*	.0	1039	.0	16.8
-3	.0	*	.1	5.0	5.6	.2	*	.0	675	*	10.9
-4	.0	*	.2	4.8	3.3	*	*	.0	520	*	8.4
-5	.0	*	.2	3.1	1.6	*	*	.0	314	*	5.1
-6	.0	*	.2	1.2	.4	*	*	.0	115	*	1.9
-7/-8	.0	*	.3	.9	.3	.0	.0	.0	92	*	1.5
-9/-10	.0	*	.2	.2	.1	.0	.0	.0	31	*	.5
-11/-13	.0	*	*	*	*	.0	.0	.0	6	.0	.1
-14/-16	*	.0	*	*	.0	.0	.0	.0	2	.0	*
TOTAL	1		96		3360		111		6200	17	6183
		4		1933		688		5			
PCT	*	.1	1.5	31.2	54.2	11.1	1.8	.1	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

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

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	.4	.0	.0	.0	.0	1.7
1-2	.7	3.9	.7	.0	.0	.0	5.4
3-4	.0	1.3	.7	.0	.0	.0	2.1
5-6	.0	.1	.2	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.8	6.0	1.7	.1	.0	.0	9.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.8	.0	.0	.0	.0	1.5
1-2	.3	2.6	.1	.0	.0	.0	3.0
3-4	.1	1.7	.1	.0	.0	.0	1.9
5-6	.0	.1	.2	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	4.3	.3	.1	.0	.0	5.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.7	.1	.0	.0	.0	2.3
1-2	.3	1.4	.2	.0	.0	.0	1.9
3-4	.1	.2	.0	.0	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	3.3	.3	.0	.0	.0	4.6

PERIOD: (OVER-ALL) 1963-1979 JANUARY AREA 011 PUNTA BURICA 7.6N 83.0W

TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	1.9	.0	.0	.0	.0	2.9	.9	2.3	.1	.0	.0	.0	3.2
1-2	.6	2.2	.3	.0	.0	.0	3.2	.4	5.1	.1	.0	.0	.0	5.6
3-4	.0	.4	.0	.0	.0	.0	.4	.1	1.2	.3	.0	.0	.0	1.6
5-6	.0	.1	.0	.0	.0	.0	.1	.0	.1	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	4.7	.3	.0	.0	.0	6.6	1.4	8.7	.5	.0	.0	.0	10.6

	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	1.3	4.4	.0	.0	.0	.0	5.7	1.1	2.6	.0	.0	.0	.0	3.7	
1-2	1.3	12.3	1.2	.0	.0	.0	14.7	.6	6.9	.7	.0	.0	.0	8.2	
3-4	.3	2.4	.9	.0	.0	.0	3.6	.0	1.8	.3	.0	.0	.0	2.2	
5-6	.0	.4	.0	.0	.0	.0	.4	.0	.1	.1	.0	.0	.0	.3	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	*	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.9	19.5	2.0	.0	.0	.0	24.5	1.7	11.5	1.2	.0	.0	.0	14.4	88.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	19.8	14.8	.1	.0	.0	.0	34.7	
1-2	5.5	38.6	4.2	.0	.0	.0	48.3	
3-4	.5	9.2	4.3	.1	.0	.0	14.1	
5-6	.0	1.1	1.0	.4	.0	.0	2.5	
7	.0	.1	.1	.0	.0	.0	.2	
8-9	.0	.1	.1	.0	.0	.0	.2	
10-11	.0	.0	.0	.1	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1697
TOT PCT	25.9	63.7	9.9	.5	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1979 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	12.1	27.4	16.9	3.3	.5	.3	*	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	2678	2
6-7	.3	3.2	5.4	2.6	.4	.2	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	556	3
8-9	.1	1.0	2.2	1.4	.6	.1	.1	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	254	4
10-11	.0	1.4	1.0	.3	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	137	3
12-13	.0	.0	.9	.5	*	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	65	4
>13	.0	*	*	.1	.3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	6
INDET	12.6	3.1	2.0	.9	.1	*	.0	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	861	1
TOTAL	1149	1653	1202	408	96	39	12	5	4	3	1	0	0	0	0	0	0	0	0	4572	2
PCT	25.1	36.2	26.3	8.9	2.1	.9	.3	.1	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1949-1979
(OVER-ALL) 1861-1979

AREA 0011 PUNTA BURICA
7.6N 83.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.2	.8	.0	.0	.0	.0	.0	1.0	.6	1.5	.8	.0	1.0	.0	95.1
NE	.2	.7	.1	.0	.0	.0	.0	1.0	*	1.0	.2	.0	1.3	.0	96.4
E	.6	1.5	.6	.0	.0	.0	.0	2.2	1.2	.4	.8	.0	1.0	.0	94.0
SE	1.3	1.9	.5	.0	.0	.0	.0	3.7	1.7	1.7	.5	.0	.4	.0	92.5
S	1.0	.7	.4	.0	.0	.0	.0	1.9	1.5	.6	.0	.0	2.4	.0	93.5
SW	.0	.4	.0	.0	.0	.0	.0	.4	1.5	1.6	.0	.0	.6	.0	95.9
W	.2	.5	.2	.0	.0	.0	.1	1.0	1.5	.8	.2	.0	.8	.0	95.8
NW	1.0	1.1	.3	.0	.0	.0	.0	2.3	1.2	1.5	.5	.0	.8	.1	93.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.8	.5	.3	.0	.0	.0	.0	1.5	1.3	1.6	.1	.0	.8	.0	94.8
TOT PCT	.5	.8	.2	.0	.0	.0	*	1.5	1.2	1.2	.3	.0	1.0	*	94.9
TOT OBS:	6256														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00E03	.2	.3	.1	.0	.0	.0	.0	.6	.4	.6	.1	.0	1.1	.0	97.4
06E09	.6	.7	.3	.0	.0	.0	.0	1.6	1.4	3.4	.6	.0	1.1	.1	92.0
12E15	.7	1.8	.2	.0	.0	.0	.1	2.8	2.0	1.7	.4	.0	.7	.0	92.5
18E21	.7	.5	.2	.0	.0	.0	.0	1.2	.8	.1	.4	.0	.9	.0	96.6
TOT PCT	.5	.8	.2	.0	.0	.0	*	1.5	1.1	1.3	.4	.0	.9	*	94.8
TOT OBS:	6570														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.1	6.4	1.8	*	*	.0		10.3	7.2	4.0	3.5	8.0	13.7	15.5	8.1	13.5	7.7
NE	1.8	7.7	3.7	.2	*	.0		13.4	8.9	4.5	2.5	9.7	10.1	22.7	15.3	16.6	13.1
E	1.6	5.9	1.3	*	.0	.0		8.9	6.9	5.9	7.6	6.9	6.8	9.8	8.6	12.6	6.5
SE	1.7	4.0	.3	.0	.0	.0		6.0	5.6	6.5	4.9	5.5	6.0	4.6	3.7	7.1	9.2
S	2.2	5.3	.3	.0	.0	.0		7.7	5.4	12.1	10.2	6.9	6.6	3.8	7.6	7.0	13.2
SW	2.6	7.6	.7	.0	.0	.0		10.8	5.8	20.2	17.8	10.0	11.3	4.8	11.3	7.1	17.2
W	4.0	13.6	1.2	*	.0	.0		18.9	6.0	29.8	28.1	20.0	21.8	12.4	19.6	13.6	16.1
NW	2.1	7.9	.9	*	.0	.0		10.9	6.2	8.1	7.4	11.1	10.6	13.6	17.2	10.6	9.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	13.1							13.1	.0	8.7	18.0	22.0	13.1	12.7	8.7	12.0	7.1
TOT OBS	2270	4262	742	22	1	0	7297		5.8	1640	128	1287	221	1622	195	1950	254
TOT PCT	31.1	58.4	10.2	.3	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	5.4	4.6	.3	*	.0		10.3	7.2	3.9	8.8	14.7	12.8
NE	5.2	7.0	1.2	*	.0		13.4	8.9	4.4	9.7	21.9	16.2
E	5.0	3.6	.2	.0	.0		8.9	6.9	6.1	6.9	9.7	11.9
SE	4.2	1.7	.1	.0	.0		6.0	5.6	6.4	5.6	4.5	7.3
S	5.6	2.1	*	.0	.0		7.7	5.4	12.0	6.8	4.2	7.7
SW	7.2	3.6	.1	.0	.0		10.8	5.8	20.1	10.2	5.5	8.3
W	12.3	6.4	.2	.0	.0		18.9	6.0	29.7	20.3	13.2	13.9
NW	6.8	4.0	.1	.0	.0		10.9	6.2	8.1	11.0	14.0	10.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	13.1						13.1	.0	9.4	20.7	12.3	11.4
TOT OBS	4727	2410	156	4	0	7297		5.8	1768	1508	1817	2204
TOT PCT	64.8	33.0	2.1	.1	.0		100.0		100.0	100.0	100.0	100.0

FEBRUARY

PERIOD: (PRIMARY) 1949-1979
(OVER-ALL) 1861-1979

AREA 0011 PUNTA BURICA
7.6N 83.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00E03	9.4	18.3	64.3	7.7	.3	.1	.0	5.8	100.0	1768
06E09	20.7	16.3	53.4	9.2	.4	.0	.0	5.2	100.0	1508
12E15	12.3	16.2	56.0	15.1	.4	.0	.0	6.4	100.0	1817
18E21	11.4	20.6	59.1	8.7	.1	.0	.0	5.6	100.0	2204
TOT	953	1317	4262	742	22	1	0	5.8		7297
PCT	.1	18.0	58.4	10.2	.3	*	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	5.5	2.4	1.4	.3		2.6
NE	7.2	2.8	1.4	.3		2.3
E	4.4	2.1	1.9	.5		3.0
SE	2.6	1.7	1.5	.5		3.4
S	2.7	2.2	2.3	.4		3.6
SW	3.8	3.2	3.4	.6		3.6
W	8.0	5.4	5.4	1.0		3.4
NW	4.3	3.0	3.0	.6		3.4
VAR	.0	.0	.0	.0		.0
CALM	7.1	3.4	2.7	.6		2.8
TOT OBS	2234	1261	1171	238	4924	3.1
TOT PCT	45.4	26.0	23.8	4.8	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	*	.0	*	.3	.2	.2	.1	.6	*	*	9.1	
NE	.0	*	*	.2	.3	.2	*	*	*	*	11.2	
E	.0	*	.1	.4	.3	.2	.1	.0	.1	*	7.7	
SE	*	*	*	.2	.3	.2	.1	.1	*	*	5.3	
S	.0	.0	.1	.3	.5	.2	.1	.1	*	*	6.1	
SW	.0	.0	*	.3	.4	.5	.1	*	*	*	9.2	
W	*	*	.1	.6	1.3	.5	.4	.1	*	.1	16.8	
NW	*	*	.2	.4	.9	.4	.1	.0	*	*	8.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	*	.1	.4	.6	.2	.2	.0	.0	*	12.2	
TOT OBS	4	5	32	150	255	125	55	11	11	16	4260	4924
TOT PCT	.1	.1	.6	3.0	5.2	2.5	1.1	.2	.2	.3	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 >5/8YD	= OR >0
= OR >6500	.6	.6	.6	.6	.6	.6	.6	.6
= OR >5000	.8	.8	.8	.8	.8	.8	.8	.8
= OR >3500	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9
= OR >2000	4.2	4.4	4.4	4.4	4.4	4.4	4.4	4.4
= OR >1000	8.8	9.4	9.5	9.6	9.6	9.6	9.6	9.6
= OR >600	11.2	12.3	12.5	12.5	12.5	12.5	12.5	12.5
= OR >300	11.6	12.8	13.0	13.1	13.1	13.1	13.1	13.1
= OR >150	11.7	12.9	13.1	13.2	13.2	13.2	13.2	13.2
= OR > 0	11.8	12.9	13.2	13.3	13.3	13.3	13.2	13.3
TOTAL	608	667	681	684	685	685	684	686

TOTAL NUMBER OF OBS: 5158

PCT FREQ NH <5/8: 86.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
20.1	23.7	20.8	14.1	8.2	4.2	3.9	3.0	2.1 .0	5499

PERIOD: (PRIMARY) 1949-1979
(OVER-ALL) 1861-1979

TABLE 8

AREA 0011 PUNTA GURICA
7.6N 83.0W

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF 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	.0	.0	
	TOT %	.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	*	
	TOT %	.0	.0	.0	*	.0	*	.0	.0	.0	.0	*	
1<2	PCP	.0	.0	*	.0	.0	.0	.0	*	.0	.0	.1	
	NO PCP	.0	.0	*	.0	.0	.0	*	*	.0	.0	*	
	TOT %	.0	.0	*	.0	.0	.0	*	.1	.0	.0	.1	
2<5	PCP	*	*	*	.0	.0	.0	*	*	.0	*	.2	
	NO PCP	*	*	*	.0	*	.1	.1	*	.0	.0	.3	
	TOT %	.1	.1	*	.0	*	.1	.1	.1	.0	*	.4	
5<10	PCP	.0	*	*	.1	.1	*	.1	.1	.0	*	.4	
	NO PCP	.5	.7	.6	.4	.5	.5	1.0	.6	.0	.4	5.2	
	TOT %	.5	.7	.6	.5	.5	.5	1.1	.7	.0	.4	5.6	
10+	PCP	.1	.1	.1	.1	.1	*	.1	.1	.0	.1	.8	
	NO PCP	9.4	12.1	8.1	5.6	7.0	10.5	18.1	10.1	.0	12.1	93.0	
	TOT %	9.5	12.1	8.2	5.7	7.1	10.5	16.1	10.3	.0	12.2	93.8	
	TOT OBS												6236
	TOT PCT	10.1	12.9	8.9	6.2	7.6	11.1	19.4	11.1	.0	12.6	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	*	*	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	*	*	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.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		*	
	11-21	.0	.0	.0	.0	.0	*	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	*	*	.0	*	.0	.0	.0	.0	.1	
1<2	0-3	*	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	4-10	.0	.0	*	.0	.0	.0	.0	*	.0		.1	
	11-21	.0	.0	.0	.0	*	.0	*	*	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	*	.0	*	.0	*	.1	.0	.0	.1	
2<5	0-3	*	.0	*	.0	*	*	*	*	.0	*	.2	
	4-10	*	*	*	.0	*	*	.1	*	.0		.2	
	11-21	*	*	.0	.0	.0	*	*	*	.0		.1	
	22+	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	TOT %	.1	.1	.1	.0	*	.1	.1	.1	.0	*	.5	
5<10	0-3	.2	.1	.1	.1	.1	.2	.3	.1	.0	.4	1.5	
	4-10	.3	.3	.4	.3	.3	.5	.7	.5	.0		3.2	
	11-21	.1	.2	.1	.1	.1	.1	*	.1	.0		.7	
	22+	.0	*	*	.0	.0	.0	*	.0	.0		*	
	TOT %	.5	.7	.6	.5	.5	.6	1.0	.7	.0	.4	5.4	
10+	0-3	1.9	3.6	1.5	1.5	2.9	2.4	3.7	2.0	.0	12.6	29.3	
	4-10	5.8	7.0	5.3	3.7	4.9	7.5	13.1	7.4	.0		54.6	
	11-21	1.7	3.4	1.2	.5	.2	.6	1.1	.9	.0		9.5	
	22+	*	.2	*	.0	.0	.0	*	*	.0		.3	
	TOT %	9.5	12.2	8.1	5.5	7.0	10.6	18.0	10.2	.0	12.6	93.8	
	TOT OBS												6600
	TOT PCT	10.0	13.0	8.8	6.0	7.6	11.2	19.2	11.0	.0	13.1	100.0	

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PERIOD: (PRIMARY) 1949-1979
(OVER-ALL) 1861-1979

AREA 0011 PUNTA BURICA
7.6N 83.0W

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.1	.0	.3	2.1	4.1	1.9	1.3	.2	.2	.5	10.7	89.3	1497
06E09	.0	.1	.4	2.9	4.4	2.8	1.6	.1	.0	.6	12.8	87.2	1086
12E15	.1	.2	1.1	3.7	6.6	2.9	.9	.1	.4	.4	16.5	83.5	1399
18E21	.1	.1	.5	2.6	4.2	2.2	.5	.3	.2	.0	10.7	89.3	1534
TOT	4	5	32	154	265	132	56	11	11	19	689	4777	5466
PCT	.1	.1	.6	2.8	4.8	2.4	1.0	.2	.2	.3	12.6	87.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.1	.1	.2	.5	3.8	95.3	1693
06E09	.1	.1	.1	.3	6.4	93.0	1433
12E15	.1	.1	.2	.8	6.5	92.5	1726
18E21	.0	.1	.1	.5	5.4	93.8	2065
TOT	3	7	9	38	381	6479	6917
PCT	*	.1	.1	.5	5.5	93.7	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	.1	.3	2.7	8.6	88.7	1370
06E09	.0	.5	4.2	10.0	85.9	1012
12E15	.2	1.7	6.0	11.7	82.3	1322
18E21	.1	.8	3.9	7.6	88.5	1454
TOT	5	42	215	484	4459	5158
PCT	.1	.8	4.2	9.4	86.4	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
95/99	.0	.0	.0	*	.1	*	.0	.0	5	.1
90/94	.0	.0	.1	.5	.6	.3	.1	*	85	1.6
85/89	.0	.0	*	1.0	6.3	6.4	1.5	.3	853	15.6
80/84	.0	.0	.1	.7	11.0	35.0	20.8	3.9	3918	71.5
75/79	.0	.0	.0	.0	.3	3.5	5.3	2.1	610	11.1
70/74	.0	.0	.0	.0	.0	.0	*	.1	8	.1
TOTAL	0	0	8	126	994	2479	1519	353	5479	100.0
PCT	.0	.0	.1	2.3	18.1	45.2	27.7	6.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	*	.0	.0	*	*	*	.0	.0	.0	*
	.2	.3	.1	.1	.2	.1	.3	.1	.0	.2
	1.6	2.2	1.8	1.0	1.4	1.4	2.7	1.5	.0	1.8
	7.1	8.2	6.1	4.6	5.5	7.8	14.9	7.7	.0	9.7
	1.3	2.3	1.1	.6	.6	1.0	1.5	1.3	.0	1.4
	*	*	*	.0	.0	*	*	*	.0	*
	10.3	13.0	9.2	6.3	7.7	10.3	19.4	10.7	.0	13.1

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	91	88	86	82	79	77	69	82.4	1891
06E09	88	85	84	81	78	76	68	81.0	1596
12E15	92	85	84	81	77	75	72	81.6	1870
18E21	96	92	89	84	79	77	69	84.1	2285
TOT	96	90	87	82	78	76	68	82.2	7592

TABLE 16

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	15.8	50.9	25.9	6.1	76	1471
06E09	.0	.6	7.4	45.0	38.1	8.8	79	1164
12E15	.0	.7	11.2	42.3	36.8	9.0	79	1483
18E21	.0	6.2	33.5	42.1	15.1	3.2	72	1656
TOT	0	138	1039	2597	1621	379	76	5774

PERIOD: (PRIMARY) 1949-1979
(OVER-ALL) 1861-1979

AREA 0011 PUNTA BURICA
7.6N 83.0W

TABLE 17

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

AIR-SEA TMP DIF	65 66	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	% FOG	#0 FOG
20/22	.0	.0	.0	.0	.0	*	.0	.0	1	.0	*
17/19	.0	.0	.0	.0	.0	*	.0	.0	1	.0	*
14/16	.0	.0	.0	.0	*	.1	*	*	7	.0	.1
11/13	.0	.0	.0	.0	.1	.1	.2	.1	24	.0	.4
9/10	.0	.0	.0	.1	.2	.2	.2	.1	39	.0	.7
7/8	.0	.0	.0	.1	.5	.6	.4	.1	98	.0	1.6
6	.0	.0	.0	.2	.4	.6	.3	.0	87	.0	1.5
5	.0	.0	*	.1	.7	1.2	.5	.0	154	.0	2.6
4	.0	.0	*	.3	1.1	1.5	.2	.0	189	*	3.1
3	.0	.0	.0	.3	1.1	1.8	.3	.0	207	*	3.4
2	.0	.0	*	.7	3.4	2.5	.1	.0	396	*	6.6
1	.0	.0	.1	.8	4.2	2.2	.1	.0	436	*	7.2
0	.0	.0	.0	2.5	10.4	2.0	*	.0	693	.2	14.7
-1	.0	.0	*	2.6	9.5	1.1	.0	.0	797	.0	13.3
-2	.0	.0	.1	4.3	11.5	.6	.0	.0	982	.1	16.3
-3	.0	.0	.1	3.2	6.3	.2	.0	.0	567	*	9.8
-4	.0	.0	.1	3.5	5.0	.1	*	.0	520	.0	8.7
-5	.0	.0	.1	2.3	2.2	.1	.0	.0	279	.0	4.7
-6	.0	.0	.2	1.3	.9	.0	.0	.0	139	.0	2.3
-7/-8	.0	*	.2	1.0	.7	.0	.0	.0	113	.0	1.9
-9/-10	.0	.0	.1	.3	.2	*	.0	.0	38	.0	.6
-11/-13	*	*	*	.1	*	.0	.0	.0	9	.0	.2
-14/-16	.0	*	.0	.0	.0	.0	.0	.0	2	.0	*
-17/-19	.0	*	.0	.0	.0	.0	.0	.0	2	.0	*
TOTAL	1		56		3468		126		21		5979
		>		1414		886		21	6000		
PCT	*	.1	.9	23.6	58.1	14.8	2.1	.4	100.0	.4	99.7

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	1.3	.0	.0	.0	.0	2.6
1-2	.9	2.8	.5	.0	.0	.0	4.2
3-4	.1	1.3	.9	.0	.0	.0	2.3
5-6	.0	.2	.4	.0	.0	.0	.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.2	5.7	1.9	.0	.0	.0	9.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.4	.0	.0	.0	.0	1.8
1-2	.7	3.3	1.0	.0	.0	.0	5.0
3-4	.1	1.6	1.5	.0	.0	.0	3.1
5-6	.0	.2	.7	.0	.0	.0	.9
7	.0	.0	.4	.1	.0	.0	.5
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	6.4	3.8	.1	.0	.0	11.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	1.8	.1	.0	.0	.0	2.7
1-2	.9	3.5	.7	.0	.0	.0	5.2
3-4	.0	.5	.6	.0	.0	.0	1.0
5-6	.0	.4	.1	.0	.0	.0	.5
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.1	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	6.3	1.6	.0	.0	.0	9.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	1.7	.0	.0	.0	.0	2.9
1-2	.6	2.1	.2	.0	.0	.0	2.9
3-4	.1	.7	.1	.0	.0	.0	.9
5-6	.1	.1	.1	.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	2.0	4.6	.4	.0	.0	.0	7.0

PERIOD: (OVER-ALL) 1963-1979 FEBRUARY AREA OF11 PUNTA BURICA

TABLE 16 (CONT) 7.6N A3.0W

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	2.5	.0	.0	.0	.0	3.3
1-2	.4	2.9	.1	.0	.0	.0	3.5
3-4	.1	.5	.2	.0	.0	.0	.8
5-6	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	6.1	.3	.0	.0	.0	7.7

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	2.6	.0	.0	.0	.0	3.5
1-2	.6	5.2	.2	.0	.0	.0	6.0
3-4	.1	.5	.3	.0	.0	.0	.9
5-6	.0	.1	.1	.0	.0	.0	.2
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	8.5	.6	.0	.0	.0	10.7

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.4	4.9	.1	.0	.0	.0	7.3
1-2	1.0	9.3	.8	.0	.0	.0	11.1
3-4	.1	1.1	.2	.0	.0	.0	1.3
5-6	.0	.1	.1	.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	3.4	15.4	1.1	.0	.0	.0	20.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	2.3	.2	.0	.0	.0	3.4
1-2	.2	4.0	.6	.0	.0	.0	4.8
3-4	.1	1.5	*	.0	.0	.0	1.6
5-6	.0	.2	.2	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	8.0	.8	.0	.0	.0	10.1

HGT	TOTAL PCT
<1	
1-2	
3-4	
5-6	
7	
8-9	
10-11	
12	
13-16	
17-19	
20-22	
23-25	
26-32	
33-40	
41-48	
49-60	
61-70	
71-86	
87+	
TOT PCT	86.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	26.8	16.0	.1	.0	.0	.0	43.0	
1-2	5.8	32.0	3.9	.0	.0	.0	41.7	
3-4	.6	7.2	3.6	.0	.0	.0	11.4	
5-6	.1	1.2	1.6	.0	.0	.0	2.9	
7	.0	.1	.5	.1	.0	.0	.6	
8-9	.0	.1	.0	.0	.0	.0	.1	
10-11	.0	.0	.1	.0	.0	.0	.1	
12	.0	.0	.1	.0	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	31.3	56.7	10.0	.1	.0	.0	100.0	1976

PERIOD: (OVER-ALL) 1949-1979 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	12.9	26.1	13.0	2.5	.7	.1	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2403	2
6-7	.3	2.6	4.2	2.5	.7	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	452	3
8-9	.1	1.6	1.8	.9	.3	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	216	4
10-11	.0	1.5	1.5	.4	.3	.1	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	171	5
12-13	.0	.0	1.4	.2	.3	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	81	6
>13	.0	.0	.0	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	6
INDET	17.5	2.6	2.1	.6	.0	*	.0	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	998	1
TOTAL	1332	1494	1042	319	106	24	9	7	4	2	0	0	0	0	0	0	0	0	0	4339	2
PCT	30.7	34.4	24.0	7.4	2.4	.6	.2	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1950-1979
(OVER-ALL) 1861-1979

AREA 0011 PUNTA BURICA
7.6N 83.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.8	1.4	.4	.0	.0	.0	.0	2.6	1.3	1.1	.6	.0	4.7		.0	89.7
NE	.4	.3	*	.0	.0	.0	.0	.7	1.2	1.1	.5	.0	3.8		.0	92.7
E	.6	.5	.1	.0	.0	.0	.0	1.2	1.5	2.4	1.7	.0	4.6		.0	89.3
SE	2.0	.8	.3	.0	.0	.0	.0	3.2	2.0	2.7	.7	.0	4.1		*	87.5
S	.4	.5	.5	.0	.0	.0	.0	1.4	1.9	2.8	.6	.0	5.1		.1	88.2
SW	.8	.7	.5	.0	.0	.0	.0	1.8	2.4	2.2	.3	.0	4.0		.1	89.2
W	.4	.8	.1	.0	.0	.0	.0	1.4	1.3	1.9	.2	.0	3.8		.0	91.5
NW	1.4	1.4	.4	.0	.0	.0	.0	3.1	1.9	2.0	.2	.0	2.6		.0	90.3
VAR	.0	.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.5	.1	.1	.0	.0	.0	.0	.7	1.0	1.7	.9	.0	5.6		.1	89.9
TOT PCT	.7	.7	.3	.0	.0	.0	.0	1.6	1.5	2.0	.6	.0	4.3		*	90.0
TOT OBS:	7013															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER 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
0003	.5	.1	.0	.0	.0	.0	.0	.6	.6	.9	.5	.0	3.8		.2	93.5
0609	.8	1.1	.1	.0	.0	.0	.0	1.9	1.7	4.2	.7	.0	3.7		.0	85.9
1215	1.1	1.3	.4	.0	.0	.0	.0	2.6	2.8	2.3	.8	.0	4.1		.1	87.2
1821	.6	.3	.4	.0	.0	.0	.0	1.3	1.2	.1	.7	.0	5.2		.0	91.6
TOT PCT	.7	.7	.2	.0	.0	.0	.0	1.6	1.6	2.2	.6	.0	4.3		.1	89.7
TOT OBS:	7423															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.8	4.9	1.4	.1	.0	.0		8.2	7.3	5.3	1.5	7.0	5.2	12.2	3.0	10.7	6.9
NE	1.6	7.2	2.9	.1	.0	.0		11.8	8.4	4.0	1.7	4.5	7.7	19.0	10.6	15.0	11.1
E	2.0	7.0	1.0	*	.0	.0		10.0	6.5	5.0	5.8	6.9	5.3	11.5	12.2	15.5	9.2
SE	1.6	5.6	.8	*	.0	.0		8.0	6.2	8.4	9.0	7.1	8.7	5.6	8.9	9.5	13.6
S	2.3	7.1	.8	*	.0	.0		10.2	6.1	16.1	15.2	9.5	13.6	5.1	6.2	9.4	14.7
SW	2.8	7.9	.9	*	.0	.0		11.6	6.0	22.6	12.4	9.4	15.9	6.5	11.8	7.7	12.9
W	3.7	11.7	1.0	.0	.0	.0		16.5	5.9	26.4	20.3	17.2	18.3	13.5	15.8	10.5	14.8
NW	2.0	6.0	.8	*	.0	.0		8.8	6.2	5.9	15.6	9.9	6.6	11.4	13.3	8.1	7.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	14.8							14.8	.0	8.2	18.8	23.4	18.6	15.4	18.1	13.7	9.3
TOT OBS	2662	4673	793	25	0	0	8153		5.6	1790	117	1521	215	1604	182	2278	246
TOT PCT	32.7	57.3	9.7	.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	4.4	3.4	.4	*	.0		8.2	7.3	3.2	6.8	11.3	10.4
NE	5.0	6.1	.7	*	.0		11.8	8.4	3.9	9.3	18.2	14.6
E	6.0	3.8	.2	*	.0		10.0	6.5	5.1	6.7	11.5	14.9
SE	5.3	2.7	.1	.0	.0		8.0	6.2	8.5	7.3	5.9	9.9
S	6.5	3.6	.1	*	.0		10.2	6.1	16.1	10.0	5.2	9.9
SW	7.5	4.0	*	*	.0		11.6	6.0	22.0	10.2	7.0	6.2
W	12.0	5.4	.1	.0	.0		16.5	5.9	26.0	17.4	13.7	10.9
NW	5.7	3.0	.1	*	.0		8.8	6.2	6.5	9.5	11.6	8.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	14.8						14.8	.0	8.9	22.8	15.6	13.2
TOT OBS	5405	2602	136	10	0	8153		5.6	1907	1736	1986	2524
TOT PCT	66.3	31.9	1.7	.1	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1950-1979
(OVER-ALL) 1961-1979

AREA 0611 PUNTA BURICA
7.6N 83.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00E03	8.9	17.3	64.1	9.3	.4	.0	.0	5.9	100.0	1907
06E09	22.8	15.7	52.7	8.5	.2	.0	.0	5.0	100.0	1736
12E15	15.6	17.1	55.3	11.6	.4	.0	.0	5.8	100.0	1986
18E21	13.2	20.2	56.9	9.4	.2	.0	.0	5.5	100.0	2524
TOT	1209	1453	4673	793	25	0	0	5.6		8153
PCT	14.8	17.8	57.3	9.7	.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	4.1	1.7	1.5	.6		2.9
NE	6.1	2.6	2.3	.8		2.9
E	4.0	2.1	2.9	1.2		3.4
SE	2.0	1.6	2.7	1.1		4.4
S	3.0	2.3	3.2	1.6		4.3
SW	3.5	2.8	4.4	1.5		4.3
W	5.8	4.1	5.0	2.0		3.9
NW	3.3	2.6	2.3	.9		3.7
VAR	.0	.0	.0	.0		.0
CALM	6.3	3.1	3.6	1.3		3.4
TOT OBS	2145	1289	1575	632	5641	3.7
TOT PCT	38.0	22.9	27.9	11.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NM >5/8) 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	.1	.2	.4	.1	.1	*	*	.1	7.0	
NE	*	.0	*	.2	.5	.3	.1	.1	*	.1	10.5	
E	*	*	*	.4	.6	.4	.2	.1	*	.1	8.3	
SE	.0	*	.1	.4	.8	.4	.1	.1	*	.1	5.4	
S	.0	*	*	.4	.8	.6	.2	.1	*	.1	7.9	
SW	.0	*	*	.7	1.2	.5	.1	*	*	.1	9.5	
W	.1	*	.1	.5	1.3	.6	.3	.1	.1	.1	13.6	
NW	*	*	.1	.3	.7	.3	.1	*	.1	.1	7.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	*	*	.4	1.0	.4	.2	.1	.1	*	12.0	
TOT	17	9	24	202	415	194	65	29	24	42	4600	5641
PCT	.3	.2	.4	3.6	7.4	3.4	1.5	.5	.4	.7	81.5	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) ≥ OR >10	≥ OR >5	≥ OR >2	≥ OR >1	≥ OR >1/2	≥ OR >1/4	≥ OR >5/16	≥ OR >0
≥ OR >6500	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ OR >5000	1.4	1.6	1.6	1.6	1.6	1.6	1.6	1.6
≥ OR >3500	2.7	3.1	3.1	3.1	3.1	3.1	3.1	3.1
≥ OR >2000	5.6	6.5	6.5	6.5	6.5	6.5	6.5	6.5
≥ OR >1000	11.3	13.5	13.7	13.7	13.7	13.7	13.7	13.7
≥ OR >600	14.0	17.0	17.3	17.5	17.3	17.2	17.	17.3
≥ OR >300	14.3	17.3	17.7	17.9	17.8	17.6	17.	17.8
≥ OR >150	14.4	17.5	17.9	18.0	18.0	17.8	17.	18.0
≥ OR > 0	14.5	17.7	18.1	18.2	18.2	18.2	18.3	18.3
TOTAL	867	1055	1091	1385	1087	1089	1084	1084

TOTAL NUMBER OF OBS: 5960 PCT FREQ NM <5/8: 81.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
22.1	19.2	17.7	13.4	9.0	5.2	5.3	3.6	4.4 .1	6306

PERIOD: (PRIMARY) 1950-1979
(OVER-ALL) 1961-1979

AREA 0011 PUNTA BURICA
7.6N 83.0W

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	*	*	.0	.0	*	
	NO PCP	.0	.0	*	.0	.0	*	*	*	.0	.0	*	
	TOT %	.0	.0	*	.0	.0	*	*	*	.0	.0	.1	
1<2	PCP	.0	.0	*	*	.0	.0	*	.0	.0	*	.1	
	NO PCP	*	*	.1	*	.0	.0	.0	.0	.0	*	.2	
	TOT %	*	*	.1	.1	.0	.0	*	.0	.0	*	.2	
2<5	PCP	*	*	*	*	*	*	*	*	.0	*	.2	
	NO PCP	.1	*	.1	*	.1	.1	.1	.1	.0	.1	.6	
	TOT %	.1	*	.1	.1	.1	.1	.1	.1	.0	.1	.8	
5<10	PCP	.1	*	*	.1	*	.1	.1	.1	.0	.0	.5	
	NO PCP	.7	1.1	1.0	1.0	1.3	1.3	1.3	.8	.0	1.3	9.9	
	TOT %	.9	1.2	1.0	1.1	1.3	1.4	1.5	.9	.0	1.3	10.4	
10+	PCP	.1	.1	.1	.1	.1	.1	.1	.1	.0	.1	.8	
	NO PCP	7.2	11.6	8.7	6.3	8.6	13.5	15.2	6.0	.0	12.4	87.6	
	TOT %	7.3	10.6	8.8	6.5	8.7	10.7	15.2	6.1	.0	12.5	86.5	
	TOT OBS												7502
	TOT PCT	8.2	11.9	10.0	7.7	10.1	12.2	16.8	9.2	.0	14.0	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	*	*	.0	.0	.0	.0	.0	.0	*	*	
	4-10	.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	*	.1	
1/2<1	0-3	.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		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	*	.0	.0	*	*	*	.0	.0	.1	
1<2	0-3	.0	.0	*	*	.0	*	*	.0	.0	.1	.1	
	4-10	*	*	.1	.1	*	*	.1	*	.0		.3	
	11-21	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	22+	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	TOT %	*	.1	.1	.1	*	*	.1	*	.0	.1	.4	
2<5	0-3	*	*	*	*	*	*	*	.1	.0	.1	.4	
	4-10	.1	.1	*	*	*	.1	.1	.1	.0		.6	
	11-21	.0	.0	*	*	*	*	*	*	.0		.1	
	22+	*	.0	.0	.0	.0	.0	.0	.0	.0		*	
	TOT %	.1	.1	.1	.1	.1	.1	.2	.2	.0	.1	1.1	
5<10	0-3	.2	.2	.2	.2	.3	.3	.2	.1	.0	1.[illegible]	2.9	
	4-10	.4	.6	.7	.7	.9	.9	1.0	.6	.0		5.8	
	11-21	.1	.3	.1	.1	.1	.2	.2	.2	.0		1.3	
	22+	*	*	*	*	*	.0	.0	.0	.0		.1	
	TOT %	.8	1.1	1.0	1.1	1.3	1.3	1.4	.9	.0	1.3	10.1	
10+	0-3	1.6	1.3	1.8	1.3	2.0	2.5	3.3	1.8	.0	12.9	28.5	
	4-10	4.4	6.5	6.1	4.6	6.0	7.2	10.8	5.5	.0		51.0	
	11-21	1.4	2.6	.8	.6	.7	.8	.9	.7	.0		8.5	
	22+	.1	.1	*	*	*	*	.0	*	.0		.2	
	TOT %	7.4	10.4	8.7	6.5	8.8	10.5	15.1	8.0	.0	12.9	88.2	
	TOT OBS												7463
	TOT PCT	8.3	11.8	9.9	7.8	10.2	12.0	16.7	9.1	.0	14.3	100.0	

PERIOD: (PRIMARY) 1950-1979
(OVER-ALL) 1861-1979

AREA NO:1 PUNTA BURICA
7.6N 83.0 W

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	.2	.1	.3	3.3	6.3	3.0	1.6	.4	.4	.8	16.4	83.6	1542
06E09	.4	.1	.3	2.3	6.1	3.1	.9	.3	.4	.5	14.4	85.6	1294
12E15	.4	.3	.6	4.5	8.3	3.4	1.0	.3	.3	.4	20.2	79.8	1595
18E21	.1	.1	.4	3.7	6.8	3.5	1.3	.6	.5	1.1	18.4	81.6	1789
TOT	17	16	27	218	429	205	68	29	24	46	1091	5129	6220
PCT	.3	.2	.4	3.5	6.9	3.3	1.4	.5	.4	.7	17.5	82.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.1	.0	.4	.9	8.3	90.3	1836
06E09	.1	.1	.2	1.1	11.9	86.6	1709
12E15	.1	.1	.4	1.4	11.7	86.3	1926
18E21	.1	.1	.5	.9	9.9	88.6	2350
TOT	7	6	31	84	813	6880	7821
PCT	.1	.1	.4	1.1	10.4	88.0	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 <500	<600 <1	<1000 <5	1000+ AND5+	NM <5/8 AND 5+	TOTAL OBS
00E03	.3	.8	4.5	12.9	82.7	1493
06E09	.4	.8	4.1	11.6	84.3	1231
12E15	.5	1.5	7.0	14.6	78.4	1520
18E21	.1	.7	5.1	14.5	80.5	1716
TOT	18	57	310	805	4845	5960
PCT	.3	1.0	5.2	13.5	81.3	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
95/99	.0	.0	*	*	*	.0	.0	.0	3	*
90/94	.0	.3	*	.4	1.1	.4	.1	.1	136	2.2
85/89	.0	.0	.1	.8	6.5	10.2	2.3	.5	1238	20.4
80/84	.0	.0	*	.9	9.3	29.8	26.9	4.6	4222	69.4
75/79	.0	.0	*	.0	.2	1.6	3.5	2.4	470	7.7
70/74	.0	.0	.0	.0	.0	.0	*	.2	11	.2
TOTAL	0	0	12	129	1061	2558	1886	472	6080	100.0
PCT	.0	.0	.2	2.1	17.1	42.1	30.7	7.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	.0	.0	.0	*	.0	*
	.1	.2	.4	.2	.2	.2	.4	.2	.0	.4
	1.8	2.4	2.5	1.8	1.7	2.2	3.5	1.6	.0	2.9
	5.0	6.2	6.7	5.1	7.5	8.6	11.9	6.2	.0	10.2
	1.1	1.6	.8	.6	.7	.6	.8	.5	.0	1.0
	*	*	*	*	.0	*	*	*	.0	*
	8.0	12.4	10.7	7.5	10.0	11.7	16.7	9.6	.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
00E03	93	89	86	83	79	77	68	83.0	1994
06E09	93	86	85	82	78	76	71	81.8	1684
12E15	97	86	84	81	78	75	70	81.3	2059
18E21		92	90	84	79	77	67	84.6	2622
TOT	97	90	86	82	79	76	67	82.8	8559

TABLE 16

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	1.1	14.7	47.5	31.9	4.8	77	1588
06E09	.0	.7	8.9	39.0	40.7	10.6	80	1378
12E15	.0	.7	9.0	38.0	40.2	12.1	80	1614
18E21	.0	3.8	31.9	42.5	15.2	4.6	72	1675
TOT	0	148	1100	2903	2001	503	77	6455

PERIOD: (PRIMARY) 1950-1976
(OVER-ALL) 1861-1979

AREA 0011 PUNTA BURICA
7.6N 83.0 W

TABLE 17

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

AIR-SEA	65	69	73	77	81	85	89	>92	TOT	%	NO
IMP DIF	68	72	76	80	84	88	92			FOG	FOG
17/19	.0	.0	.0	.0	*	*	.0	.0	5	.0	.1
14/16	.0	.0	.0	*	*	.1	*	*	12	.0	.2
11/13	.0	.0	.0	.0	.2	.2	.1	.1	39	*	.6
9/10	.0	.0	.0	.1	.2	.2	.2	.1	65	.0	.7
7/8	.0	.0	*	.1	.4	.7	.5	*	118	*	1.7
6	.0	.0	.0	.1	.4	.6	.5	*	106	*	1.6
5	.0	.0	.0	.2	.9	.8	.5	*	159	*	2.3
4	.0	.0	*	.4	1.3	1.8	.6	*	280	*	4.1
3	.0	.0	*	.3	1.5	1.8	.6	.0	270	.1	3.9
2	.0	.0	*	.6	2.9	3.0	.3	.0	464	.1	6.7
1	.0	.0	*	.7	3.8	2.4	.1	.0	475	.1	6.9
0	.0	.0	.1	1.4	6.4	3.9	.1	.0	901	.1	13.2
-1	.0	.0	*	1.3	9.3	2.1	*	.0	866	.1	12.7
-2	.0	.0	.1	2.1	12.4	1.2	.0	.0	1068	*	15.6
-3	.0	.0	*	2.0	7.3	.5	*	.0	669	*	9.9
-4	.0	.0	*	2.6	6.0	.1	.0	.0	592	*	8.7
-5	.0	.0	*	1.6	3.1	.2	.0	.0	337	.0	5.0
-6	.0	.0	.1	1.2	1.2	*	.0	.0	177	.0	2.6
-7/-8	.0	.0	.1	.9	.9	.0	.0	.0	126	.0	1.9
-9/-10	.0	*	.1	.1	.2	*	.0	.0	30	.0	.4
-11/-13	.0	*	.2	.1	*	.0	.0	.0	20	.0	.3
-14/-16	*	*	*	*	.0	.0	.0	.0	8	.0	.1
-17/-19	*	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	5		66		4092		217			44	6727
		6		1676		1288		19	6771		
PCT	.1	.1	1.0	15.9	60.4	19.0	3.2	.3	100.0	.6	99.4

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	1.8	.8	.0	.0	.0	2.6
1-2	.6	2.4	.4	.0	.0	.0	3.5
3-4	.0	1.0	.4	.1	.0	.0	1.4
5-6	.0	.0	.2	.1	.0	.0	.2
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	*	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	5.2	1.7	.2	.0	.0	8.6

WE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.7	.1	.0	.0	.0	2.5
1-2	.7	3.9	.9	.0	.0	.0	5.6
3-4	*	1.6	2.4	.1	.0	.0	4.0
5-6	*	.0	.9	.1	.0	.0	1.1
7	.0	.1	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	7.3	4.4	.3	.0	.0	13.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	2.1	.0	.0	.0	.0	3.1
1-2	.4	4.0	.5	.0	.0	.0	4.9
3-4	*	1.1	.6	*	.0	.0	1.8
5-6	*	.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	1.5	7.3	1.0	*	.0	.0	9.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.3	.1	.0	.0	.0	1.7
1-2	.2	2.5	.4	.0	.0	.0	3.2
3-4	.0	.6	.3	.0	.0	.0	.9
5-6	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	4.4	.8	.0	.0	.0	5.8

MARCH

PERIOD: (OVER-ALL) 1963-1979 AREA 0011 PUNTA BLANCA 7.6N 83.0W

TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.8	*	.0	.0	.0	2.6
1-2	.6	4.4	.4	.0	.0	.0	5.4
3-4	.1	1.2	.5	.0	.0	.0	1.7
5-6	*	*	.0	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	7.4	.9	.0	.0	.0	9.9

SW

1-3	4-10	11-21	22-33	34-47	48+	PCT
1.5	2.4	.1	.0	.0	.0	4.0
.8	5.8	.6	.0	.0	.0	7.2
.1	.7	.7	.0	.0	.0	1.5
*	.2	.1	.0	.0	.0	.2
.0	.0	.1	.0	.0	.0	.1
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
2.4	9.1	1.5	.0	.0	.0	13.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.5	3.5	.0	.0	.0	.0	5.1
1-2	1.4	6.5	.5	.0	.0	.0	8.4
3-4	.1	2.1	.3	.0	.0	.0	2.5
5-6	.0	.2	*	.0	.0	.0	.2
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	3.0	12.3	.9	.0	.0	.0	16.2

NW

1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
1.1	1.5	.0	.0	.0	.0	2.6	
.8	4.7	.5	.0	.0	.0	6.0	
.1	1.1	.3	.1	.0	.0	1.5	
.0	.0	.1	.0	.0	.0	.1	
.0	.0	.1	.0	.0	.0	.1	
.0	.0	*	.0	.0	.0	*	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
2.0	7.1	1.0	.1	.0	.0	10.1	66.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	22.6	15.4	.2	.0	.0	.0	38.2	
1-2	6.8	33.0	4.0	.0	.0	.0	43.8	
3-4	.5	8.8	5.5	.2	.0	.0	15.1	
5-6	.1	.5	1.2	.2	.0	.0	2.0	
7	.0	.1	.5	.0	.0	.0	.7	
8-9	.0	.0	.1	.1	.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	30.2	57.7	11.5	.5	.0	.0	100.0	1723

PERIOD: (OVER-ALL) 1949-1979

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	12.3	24.5	12.6	2.2	.4	.1	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2631	2
6-7	.3	3.6	4.3	2.0	.6	.1	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	556	3
8-9	.1	1.3	2.4	1.3	.7	.1	.2	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	303	4
10-11	.0	1.5	1.9	.8	.3	.1	.1	*	*	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	239	4
12-13	.0	.0	1.2	.5	.2	.1	.1	.3	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	106	5
>13	.0	.0	.0	.6	.1	*	.1	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	41	6
INDET	17.6	2.4	1.8	.8	.3	*	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	1155	1
TOTAL	1521	1669	1218	411	135	30	30	8	4	2	1	0	0	0	0	0	0	0	0	5031	2
PCT	30.2	33.2	24.2	8.2	2.7	.6	.6	.2	.1	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1950-1979 AFLA CC'I PUNTA BURICA
(OVER-ALL) 1962-1979 7.6% 83.0%

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SNOW	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	2.8	.6	.0	.0	.0	.0	.0	5.7	4.1	3.1	.1	.0	3.3	.3	85.7
NE	1.7	1.1	.6	.0	.0	.0	.0	3.4	2.8	3.1	.9	.0	2.3	.0	87.9
E	2.1	.6	.6	.0	.0	.0	.0	3.6	2.9	2.6	.5	.0	3.5	.0	87.1
SE	2.0	2.3	.6	.0	.0	.0	.0	4.7	3.7	4.2	.7	.0	2.0	.0	84.8
S	1.8	2.4	.7	.0	.0	.0	.0	4.7	4.1	4.6	.2	.0	2.6	.0	83.9
SW	2.0	2.2	.9	.0	.0	.0	.0	5.2	2.5	5.1	.3	.0	1.6	.0	85.7
W	2.3	1.4	.4	.0	.0	.0	.0	4.1	2.4	4.8	.6	.0	2.1	.1	86.7
NW	2.2	1.7	.6	.0	.0	.0	.0	4.5	4.4	7.2	.2	.0	1.3	.0	82.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.6	1.5	1.0	.0	.0	.0	.0	3.1	3.0	2.4	.6	.0	4.2	.0	85.6
TOT PCT	1.9	1.7	.7	.0	.0	.0	.0	4.2	3.2	4.4	.5	.0	2.5	*	85.5
TOT OBS:	7078														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SNOW	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00E03	1.2	.7	.4	.0	.0	.0	.0	2.3	1.5	2.5	.3	.0	2.8	.0	90.7
06E09	2.0	1.7	.6	.0	.0	.0	.0	4.1	2.8	12.1	.9	.0	2.7	.1	77.9
12E15	2.7	2.5	1.2	.0	.0	.0	.0	6.4	5.5	4.8	.5	.0	2.2	.0	81.0
18E21	2.1	1.6	.5	.0	.0	.0	.0	4.5	2.9	.6	.6	.0	2.5	*	89.2
TOT PCT	2.0	1.7	.7	.0	.0	.0	.0	4.2	3.2	4.4	.6	.0	2.5	*	85.1
TOT OBS:	7434														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)					
WND DIR	0-3	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	*	.0	.0		5.5	6.2	1.9	3.0	4.4	3.7	9.8	5.1	6.2	3.6
NE	1.4	5.1	1.1	*	.0	.0		7.6	7.1	2.2	2.0	6.2	4.5	12.0	8.2	9.6	9.6
E	1.8	5.8	.7	.0	.0	.0		8.3	6.3	4.3	3.6	5.9	5.2	10.5	12.0	11.7	7.2
SE	2.2	6.8	.9	.0	.0	.0		9.9	6.2	8.0	7.4	7.8	9.8	8.4	8.5	14.0	10.4
S	3.2	10.1	1.3	*	.0	.0		14.6	6.1	21.8	11.8	17.7	13.0	8.6	9.1	16.8	19.0
SW	3.0	11.4	1.4	.0	.0	.0		15.9	6.3	27.9	21.2	15.2	14.9	6.2	11.1	12.0	14.9
W	3.4	12.4	1.5	.0	.0	.0		17.3	6.4	22.3	5.3	19.6	19.1	15.3	16.3	12.6	14.7
NW	1.6	5.6	.7	.0	.0	.0		7.9	6.3	..	4.9	8.5	10.7	22.1	13.9	6.9	5.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	13.0							13.0	.0	7.3	7..	13.4	19.0	14.1	15.8	12.5	10.9
TOT OBS	2528	9899	674	*	0	0	8105		5.5	1845	91	1559	205	1783	196	2179	247
TOT PCT	31.2	80.4	8.3	*	.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	3.4	2.0	.1	.0	.0		5.5	6.2	2.0	4.5	9.3	6.0
NE	4.2	3.3	.2	.0	.0		7.6	7.1	2.5	6.0	11.6	9.7
E	5.1	3.1	.1	.0	.0		8.3	6.3	4.2	5.9	10.6	11.3
SE	6.2	3.7	*	.0	.0		9.9	6.2	8.0	8.1	8.9	10.1
S	9.5	5.0	.1	.0	.0		14.6	6.1	11.3	13.7	8.6	14.8
SW	9.8	5.9	.2	.0	.0		15.9	6.3	27.6	15.1	9.4	12.3
W	10.6	6.5	.1	.0	.0		17.3	6.4	22.8	19.5	15.4	12.8
NW	5.1	2.7	.1	.0	.0		7.9	6.3	4.2	8.8	12.3	6.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	13.0						13.0	.0	7.3	10.5	14.3	12.3
TOT OBS	5417	2612	76	0	0	8105		5.5	1936	1764	1979	2426
TOT PCT	66.8	32.2	.9	.0	.0		100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1950-1979
(OVER-ALL) 1862-1979

AREA 7011 PUNTA BURICA
7.6N 83.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00E03	7.3	16.1	67.0	9.6	.0	.0	.0	6.1	100.0	1936
06E09	18.5	16.6	56.7	8.2	.1	.0	.0	5.2	100.0	1764
12E15	14.3	20.2	56.4	9.0	.1	.0	.0	5.4	100.0	1979
18E21	12.3	19.6	61.2	6.8	*	.0	.0	5.3	100.0	2426
TOT	1050	1478	4859	674	4	0	0	5.5		8105
PCT	13.0	18.2	60.4	8.3	*	.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	1.7	1.1	1.8	.6		4.2
NE	2.5	1.4	2.5	1.0		4.1
E	2.3	1.8	2.9	1.4		4.5
SE	1.9	2.0	4.2	1.9		5.0
S	2.1	3.3	6.9	2.9		5.2
SW	2.6	3.2	6.5	3.7		5.3
W	3.9	3.4	7.0	2.9		4.9
NW	1.6	1.9	2.8	1.5		4.3
VAR	.0	.0	.0	.0		.2
CALM	3.6	3.5	4.1	1.7		4.2
TOT OBS	1251	1219	2166	1006	5642	4.8
TOT PCT	22.2	21.6	38.4	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	*	*	.3	.5	.2	.1	*	.0	.1	4.2	
NE	*	*	.1	.3	.6	.2	.2	*	.1	*	5.8	
E	.0	.1	*	.5	.7	.3	.2	*	.1	.1	6.2	
SE	.1	*	.2	.8	1.2	.4	.4	.1	*	*	6.6	
S	.1	.1	.5	1.3	2.0	.7	.4	.1	*	.1	9.9	
SW	.1	*	.4	1.0	1.9	.7	.3	.1	.1	.1	11.1	
W	.1	*	.2	1.1	1.6	.6	.5	.1	.1	.1	12.7	
NW	*	.1	.1	.5	.9	.3	.2	*	*	*	5.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	*	.2	.7	1.1	.4	.2	.1	*	*	10.2	
TOT OBS	26	18	90	373	593	224	140	57	23	38	4080	5642
TOT PCT	.5	.3	1.6	6.6	10.5	4.0	2.5	.7	.4	.7	72.3	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 >5GYD	= OR >0
= OR >6500	.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0
= OR >5000	1.4	1.6	1.7	1.7	1.7	1.7	1.7	1.7
= OR >3500	3.7	4.1	4.2	4.2	4.2	4.2	4.2	4.2
= OR >2000	6.9	8.0	8.2	8.2	8.2	8.2	8.2	8.2
= OR >1000	15.6	18.3	18.7	18.7	18.7	18.7	18.7	18.7
= OR >600	20.6	24.7	25.3	25.3	25.3	25.4	25.4	25.4
= OR >300	21.7	26.1	26.8	26.9	26.9	27.0	27.0	27.0
= OR >150	21.9	26.4	27.1	27.2	27.2	27.3	27.3	27.3
= OR > 0	22.1	26.8	27.5	27.7	27.7	27.7	27.7	27.7
TOTAL	1307	1584	1627	1637	1638	1642	1642	1642

TOTAL NUMBER OF OBS: 5919 PCT FREQ NH <5/8: 72.3

TABLE 7A

PERCENTAGE FREQ OF LOW [illegible] (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
13.7	14.2	19.1	15.5	12.4	8.0	7.4	.1	7.3	.3	6306

PERIOD: (PRIMARY) 1950-1974
(OVER-ALL) 1862-1979

AREA 0011 PUNTA BURICA
7.6N 83.0W

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	*	*	.0	.0	.0	*	*	
	NO PCP	.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	*	
	NO PCP	.0	*	*	.0	.0	.0	*	*	.0	.0	.1	
	TOT %	.0	*	*	*	.0	*	*	*	.0	.0	.1	
1<2	PCP	*	*	*	.0	*	*	.1	*	.0	*	.2	
	NO PCP	.0	*	*	*	*	.0	*	*	.0	*	.1	
	TOT %	*	*	*	*	.1	*	.1	*	.0	*	.4	
2<5	PCP	*	.1	*	*	.1	.1	.1	*	.0	*	.5	
	NO PCP	.0	*	.1	.1	.1	.1	.2	*	.0	*	.6	
	TOT %	*	.1	.1	.1	.2	.3	.3	.1	.0	.1	1.1	
5<10	PCP	.1	.1	.1	.3	.1	.3	.1	.1	.0	.1	1.5	
	NO PCP	.7	.7	.8	1.1	1.7	1.3	1.4	.8	.0	1.2	9.8	
	TOT %	.8	.7	1.0	1.4	2.0	1.6	1.5	.9	.0	1.3	11.2	
10+	PCP	.1	.1	.1	.2	.3	.4	.4	.2	.0	.3	2.0	
	NO PCP	4.6	6.6	7.2	8.2	12.3	13.8	15.0	6.7	.0	10.7	85.2	
	TOT %	4.7	6.7	7.3	8.4	12.6	14.2	15.3	6.9	.0	11.0	87.1	
	TOT OBS												7070
	TOT PCT	5.5	7.6	8.4	9.9	14.4	16.1	17.3	8.0	.0	12.4	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	*	*	.0	.0	.0	.0	.0	.0	*	.1	
	4-10	.0	.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	.1	*	*	*	.0	*	.2	
1/2<1	0-3	.0	.0	.0	*	.0	.0	*	*	.0	.0	*	
	4-10	.0	*	.0	.0	.0	.0	*	.0	.0		*	
	11-21	.0	*	*	.0	.0	*	*	*	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	*	*	.0	*	*	*	.0	.0	.1	
1<2	0-3	*	*	*	*	.1	*	.1	.0	.0	.1	.2	
	4-10	.0	*	*	*	*	*	.1	*	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	*	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	*	*	.1	*	.1	*	.0	.1	.4	
2<5	0-3	*	*	*	*	*	.1	.1	*	.0	.1	.4	
	4-10	*	*	.1	.1	.1	.2	.2	.1	.0		.8	
	11-21	.0	*	*	*	.1	.1	.1	*	.0		.4	
	22+	.0	.0	.0	.0	*	.0	.0	.0	.0		*	
	TOT %	*	.1	.2	.2	.3	.3	.3	.1	.0	.1	1.6	
5<10	0-3	.2	.2	.2	.2	.4	.3	.3	.2	.0	1.4	3.4	
	4-10	.4	.5	.6	1.0	1.3	1.1	1.0	.6	.0		6.6	
	11-21	.1	.1	.1	.2	.3	.2	.2	.2	.0		1.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.8	.8	1.0	1.4	2.0	1.6	1.5	.9	.0	1.4	11.4	
10+	0-3	1.5	1.2	1.5	1.8	2.6	2.6	2.8	1.4	.0	11.2	26.4	
	4-10	2.7	4.4	5.1	5.8	8.7	10.3	11.1	4.9	.0		53.1	
	11-21	.5	1.0	.6	.8	.9	1.2	1.2	.5	.0		6.7	
	22+	*	*	.0	.0	.0	.0	.0	.0	.0		*	
	TOT %	4.7	6.6	7.1	8.4	12.3	14.1	15.2	6.8	.0	11.2	86.3	
	TOT OBS												7419
	TOT PCT	5.5	7.5	8.3	10.0	14.7	16.1	17.2	7.9	.0	12.8	100.0	

APRIL

PERIOD: (PRIMARY) 1950-1979
(OVER-ALL) 1867-1979

AREA 0011 PUNTA BORICA
7.6N 83.0W

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.4	.3	.6	5.0	9.1	3.4	2.9	.6	.6	1.0	23.8	76.2	1578
06E09	.7	.2	.9	5.4	10.6	3.9	1.9	.6	.2	.3	24.7	75.3	1269
12E15	.3	.5	2.5	8.0	11.0	4.1	2.0	.5	.3	.3	29.6	70.4	1569
18E21	.4	.2	2.1	6.7	9.9	4.0	2.5	.7	.5	.8	27.8	72.2	1766
	27	18	98	393	625	236	147	39	23	39	1645	4537	6182
	.4	.3	1.6	6.4	10.1	3.8	2.4	.6	.4	.6	26.6	73.4	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	.1	.3	1.4	9.5	88.8	1871
06E09	.2	.1	.4	1.6	14.5	83.1	1712
12E15	.3	.1	.7	1.7	12.1	85.1	1919
18E21	.3	.1	.4	1.7	10.4	87.2	2273
TOT	16	8	33	125	894	6699	7775
PCT	.2	.1	.4	1.6	11.5	86.2	100.0

TABLE 12

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

HOUR (GMT)	<150 <500YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.4	1.2	7.0	18.0	75.0	1519
06E09	.8	2.2	5.0	17.9	73.1	1198
12E15	.3	3.6	12.3	18.6	69.2	1514
18E21	.4	2.8	10.7	18.7	70.6	1688
TOT	27	145	581	1085	4253	5919
PCT	.5	2.4	9.8	18.3	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
95/99	.0	.0	*	.1	*	.0	.0	.0	9	.1
90/94	.0	.0	*	.2	1.3	.5	.1	*	135	2.2
85/89	.0	.0	.1	.6	5.1	9.9	2.9	.5	1182	19.2
80/84	.0	.0	.0	.3	4.1	26.0	33.1	5.7	4262	69.2
75/79	.0	.0	.0	.0	*	1.0	4.0	3.9	557	9.0
70/74	.0	.0	.0	.0	.0	.0	*	.1	11	.2
65/69	.0	.0	.0	.0	.0	.0	.0	*	1	*
TOTAL	0	0	7	78	655	2306	2473	638	6157	100.0
PCT	.0	.0	.1	1.3	10.6	37.5	40.2	10.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	*	.0	*	*	*	*	.0	*
	.1	.3	.2	.3	.3	.3	.2	.2	.0	.3
	1.1	1.8	1.8	2.0	2.6	2.7	3.1	1.5	.0	2.5
	3.7	4.6	5.5	6.5	10.9	11.6	12.7	5.1	.0	8.7
	.8	1.1	1.1	1.0	1.2	1.1	1.6	.8	.0	1.0
	*	.0	.0	*	*	*	*	.1	.0	.0
	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
	5.6	7.8	8.6	9.8	15.1	15.7	17.1	7.6	.0	12.6

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	96	88	86	83	79	77	68	82.8	1993
06E09	91	86	85	82	78	77	69	81.8	1879
12E15	94	86	84	81	78	75	67	81.3	2060
18E21	91	92	90	84	79	77	65	84.4	2506
TOT	99	90	88	82	78	76	65	82.7	8436

TABLE 16

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	.6	7.7	42.6	41.2	7.8	79	1616
06E09	.0	.4	3.9	34.4	49.0	12.4	82	1403
12E15	.0	.3	5.1	29.8	48.6	16.2	82	1641
18E21	.0	1.7	22.9	42.1	24.7	6.7	75	1824
TOT	0	87	682	2427	2600	688	79	6484

PERIOD: (PRIMARY) 1950-1979
(OVER-ALL) 1862-1979

AREA 0031 PUNTA BURICA
7.6N 83.0W

TABLE 17

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

AIR-SEA	65	69	73	77	81	85	89	>92	TOT	%	%C
TMP DIF	68	72	76	80	84	88	92			FOG	FOG
17/19	.0	.0	.0	.0	.0	.0	*	.0	1	.0	*
14/16	.0	.0	.0	.0	*	*	*	*	7	.0	.1
11/13	.0	.0	.0	.0	.1	.1	.1	.1	27	.0	.4
9/10	.0	.0	.0	*	.2	.2	.1	*	35	.0	.5
7/8	.0	.0	.0	.1	.3	.5	.5	.1	109	.0	1.6
6	.0	.0	.0	*	.2	.4	.5	*	78	.0	1.1
5	.2	.0	*	.1	.4	.9	.6	*	140	*	2.0
4	.2	.0	*	.2	.9	1.3	.7	.0	213	*	3.1
3	.2	.0	.0	.2	1.1	1.3	.2	*	189	*	2.8
2	.0	.0	*	.3	2.9	2.6	.3	.0	403	*	5.9
1	.1	.0	*	.4	3.0	2.6	*	.0	415	.1	6.0
0	*	.0	*	1.4	7.9	3.6	*	.0	884	.1	12.9
-1	.0	.0	*	1.3	9.3	2.1	.0	.0	867	.1	12.6
-2	*	.0	*	2.0	12.9	1.2	*	.0	1102	.1	16.1
-3	.0	.0	.0	2.0	8.7	.7	.0	.0	776	*	11.4
-4	.0	.0	.1	2.5	6.5	.3	.0	.0	639	*	9.4
-5	.0	.0	.1	2.4	4.0	.1	.0	.0	449	*	6.6
-6	.0	.0	.1	1.4	1.3	.1	.0	.0	194	.0	2.9
-7/-8	.0	.0	.2	1.5	.9	*	.0	.0	180	.0	2.6
-9/-10	.0	.0	.1	.6	.2	.0	.0	.0	62	.0	.9
-11/-13	.0	.0	.1	.1	.1	.0	.0	.0	22	.0	.3
-14/-16	*	*	*	.0	.0	.0	.0	.0	3	.0	*
TOTAL	%		59		4133		206			39	6756
		1		1195		1223		24	6795		
PCT	.1	*	.9	16.9	60.8	18.0	3.0	.4	100.0	.6	99.4

PERIOD: (OVER-ALL) 1963-1979

TABLE 15

PCT FREQ OF 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	.8	.1	.0	.0	.0	1.6
1-2	.2	1.4	.1	.0	.0	.0	1.7
3-4	.0	.6	.2	.0	.0	.0	.8
5-6	.0	.2	.1	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	3.0	.5	.0	.0	.0	4.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	1.9	*	.0	.0	.0	2.7
1-2	.2	2.8	.5	.0	.0	.0	3.5
3-4	.1	.9	.6	.0	.0	.0	1.6
5-6	.0	.1	.2	.0	.0	.0	.4
7	.0	.0	.0	.1	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	5.6	1.4	.1	.0	.0	8.4

E

HGT	1-3	4-10	11-21	22-33	34-47	-	PCT
<1	1.0	1.8	.0	.0	.0	.	2.8
1-2	.5	3.1	.3	.0	.0	.1	4.1
3-4	.1	.9	.3	.0	.0	.0	1.3
5-6	.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	1.6	6.9	.6	.0	.0	.0	9.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	2.4	.0	.0	.0	.0	3.5
1-2	.8	4.7	.6	.0	.0	.0	6.1
3-4	.0	1.0	.3	.0	.0	.0	1.3
5-6	.0	*	.1	.0	.0	.0	.1
7	.0	.1	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	8.2	1.0	.0	.0	.0	11.1

APRIL

PERIOD: (OVER-ALL) 1963-1979 — AREA C-11 PUNTA BURICA 7.6N 83.0W

TABLE 16 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.6	3.5	.0	.0	.0	.0	5.1
1-2	1.1	7.7	.5	.0	.0	.0	9.3
3-4	*	1.6	.5	.0	.0	.0	2.1
5-6	.0	.2	.2	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.1	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.7	13.3	1.1	.0	.0	.0	17.1

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.5	3.3	.0	.0	.0	.0	4.8
1-2	.5	6.1	.8	.0	.0	.0	7.4
3-4	.1	2.0	.6	.0	.0	.0	2.6
5-6	.0	.1	.1	.0	.0	.0	.2
7	.0	.1	.0	.0	.0	.0	.1
8-9	.0	.1	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.1	11.7	1.5	.0	.0	.0	15.2

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.8	3.5	.1	.0	.0	.0	5.4
1-2	.9	6.0	.3	.0	.0	.0	7.2
3-4	.2	2.0	.4	.0	.0	.0	2.6
5-6	.0	.3	*	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.1	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.9	11.8	.9	.0	.0	.0	15.6

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	1.6	.3	.0	.0	.0	2.0	
1-2	.3	3.1	.3	.0	.0	.0	3.7	
3-4	.0	.4	.1	.0	.0	.0	.5	
5-6	.0	.1	.1	.0	.0	.0	.2	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.1	.0	.0	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	5.2	.9	.0	.0	.0	6.5	67.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	22.7	18.4	.5	.0	.0	.0	41.6	
1-2	5.5	34.7	3.3	.0	.0	.0	43.5	
3-4	.5	9.1	2.8	.0	.0	.0	12.4	
5-6	.0	1.0	.7	.0	.0	.0	1.8	
7	.0	.2	.0	.1	.0	.0	.3	
8-9	.0	.2	.1	.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	
								1750
TOT PCT	28.8	63.7	7.4	.1	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1979

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	13.1	25.2	12.3	2.6	.7	.2	.1	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	2745	2
6-7	.2	2.8	5.2	2.3	.8	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	584	3
8-9	.1	1.5	2.9	1.8	.7	.2	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	393	4
10-11	.0	1.4	1.6	.8	.4	.2	.1	.1	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	237	4
12-13	.0	.0	1.4	.8	.3	.1	.1	*	*	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	139	5
>13	.0	.0	.0	.4	.2	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	36	6
INDET	14.0	2.5	1.7	.7	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	970	1
TOTAL	1391	1688	1241	480	162	48	21	11	7	1	1	1	0	0	0	0	0	0	0	5054	2
PCT	27.5	33.4	24.6	9.5	3.2	.9	.4	.2	.1	*	*	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1951-1979
(OVER-ALL) 1861-1979

AREA 0011 PUNTA BURICA
7.7N 83.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	4.9	3.7	2.4	.0	.0	.0	.0	11.0	4.3	4.9	.0	.0	.4	.0	80.0
NE	3.6	6.5	1.4	.0	.0	.0	.0	11.1	7.0	5.2	.0	.0	.2	.0	76.5
E	6.3	2.2	2.2	.0	.0	.0	.0	10.4	3.3	5.2	.0	.0	.0	.0	81.8
SE	5.7	4.8	1.1	.0	.0	.0	.0	11.6	5.7	6.5	.0	.0	.1	.0	76.7
S	5.4	3.1	2.1	.0	.0	.0	.1	10.7	6.9	3.7	.2	.0	.6	.0	78.2
SW	6.6	4.7	2.0	.0	.0	.0	.0	13.3	6.5	6.1	.0	.0	.3	.0	74.4
W	6.1	3.9	1.4	.0	.0	.0	.2	11.3	5.9	5.5	.1	.0	.2	.1	77.5
NW	7.2	3.1	1.7	.0	.0	.0	.2	11.9	5.7	5.8	.2	.0	.2	.0	76.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7	1.9	.9	.0	.0	.0	.1	4.6	2.5	5.1	.0	.1	.4	.0	87.3
TOT PCT	5.6	3.8	1.7	.0	.0	.0	.1	11.0	5.7	5.4	.1	*	.3	*	78.0
TOT OBS:	7657														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00E03	4.5	2.8	1.8	.0	.0	.0	.1	8.9	3.9	3.7	.1	.0	.2	.0	83.3
06E09	6.8	2.9	1.9	.0	.0	.0	.2	11.3	4.9	10.2	.1	.0	.4	.0	68.2
12E15	6.9	5.4	1.6	.0	.0	.0	.0	13.9	7.6	4.5	.0	.0	.2	.1	74.4
18E21	5.0	4.0	1.4	.0	.0	.0	.1	10.5	6.2	.9	.1	*	.5	.0	82.2
TOT PCT	5.7	3.6	1.6	.0	.0	.0	.1	11.1	5.7	5.5	.1	*	.3	*	77.7
TOT OBS:	7983														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	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	.3	*	.0	.0		4.1	6.1	2.1	5.9	3.8	4.2	6.9	6.9	3.4	3.1
NE	.6	2.0	.4	*	.0	.0		2.9	6.6	1.6	1.5	2.3	4.3	4.7	4.5	3.2	1.3
E	1.1	2.9	.6	*	.0	.0		4.5	6.4	3.1	3.3	4.5	3.9	6.0	4.7	4.6	3.0
SE	1.7	5.6	.8	*	.0	.0		8.0	6.6	5.4	9.9	9.1	8.8	7.2	5.5	10.0	8.2
S	2.6	10.3	1.7	.1	.0	.0		14.6	7.0	17.3	14.5	12.6	15.0	10.5	10.8	15.8	22.4
SW	3.1	15.5	3.7	.1	.0	.0		22.3	7.5	27.9	25.7	19.7	22.0	19.2	25.1	21.1	26.2
W	3.1	17.1	4.5	.1	.0	.0		24.8	7.7	30.2	25.9	25.7	21.8	22.3	15.5	23.1	20.6
NW	1.3	6.1	1.0	*	.0	.0		8.4	7.0	5.3	8.1	8.1	9.3	11.3	16.3	8.4	8.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.3							10.3	.0	7.0	5.1	14.2	10.7	11.8	2.6	10.8	4.8
TOT OBS	2167	5439	1134	26	0	0	8766		6.4	2001	136	1573	225	1961	195	2922	273
TOT PCT	24.7	62.0	12.9	.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	1.4	.1	.0	.0		4.1	6.1	2.4	3.9	6.9	3.5
NE	1.8	1.1	*	.0	.0		2.9	6.6	1.6	2.5	4.6	3.0
E	2.8	1.6	.1	.0	.0		4.5	6.4	3.2	4.4	5.9	4.4
SE	4.6	3.2	.1	*	.0		8.0	6.6	5.7	9.1	7.1	9.9
S	7.9	6.4	.3	*	.0		14.6	7.0	17.1	12.9	11.3	16.5
SW	10.7	11.2	.5	*	.0		22.3	7.5	27.8	20.0	19.8	21.6
W	11.7	12.4	.6	*	.0		24.8	7.7	29.9	25.2	21.7	22.9
NW	4.6	3.6	.2	.0	.0		8.4	7.0	5.5	8.2	11.6	6.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	10.3						10.3	.0	6.9	13.6	11.0	10.2
TOT OBS	5008	3583	172	3	0	8766		6.4	2137	1798	2136	2695
TOT PCT	57.1	40.9	2.0	*	.0		100.0		100.0	100.0	100.0	100.0

MAY

PERIOD: (PRIMARY) 1951-1979
(OVER-ALL) 1861-1979

APEA 0011 PUNTA BUNICA
7.7N 83.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00E03	6.9	11.2	65.7	15.8	.4	.0	.0	7.1	100.0	2137
06E09	13.8	12.8	61.0	12.1	.4	.0	.0	6.2	100.0	1798
12E15	11.0	16.4	59.5	12.6	.3	.0	.0	6.2	100.0	2136
18E21	10.2	16.5	61.9	11.3	.2	.0	.0	6.2	100.0	2695
TOT	903	1264	5439	1134	26	1	0	6.4		8766
PCT	10.3	14.4	62.0	12.9	.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	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.7	.7	1.4	.9		5.3
NE	.4	.6	1.1	.7		5.4
E	.3	.9	2.0	1.3		5.8
SE	.6	1.4	3.9	1.9		5.9
S	.9	1.7	6.9	4.9		6.2
SW	1.2	2.6	10.6	8.3		6.3
W	2.1	4.0	11.2	8.1		6.0
NW	.6	1.3	3.7	2.2		5.8
VAR	.0	.0	.0	.0		.0
CALM	1.3	2.5	4.9	2.0		5.2
TOT OBS	496	970	2813	1867	6146	5.9
TOT PCT	8.1	15.8	45.8	30.4	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	*	*	.3	.3	.5	.2	.1	*	*	*	2.4	
NE	.0	*	.1	.3	.4	.2	*	*	*	*	1.6	
E	.1	*	.2	.6	.7	.3	*	*	*	*	2.5	
SE	*	.1	.4	1.0	1.1	.4	.2	*	*	*	4.5	
S	.2	.1	.7	2.3	2.0	.9	.3	.1	*	.0	7.6	
SW	.3	.2	1.0	3.1	4.6	1.4	.5	.2	.1	.1	11.4	
W	.3	.2	.9	3.3	4.1	1.7	.5	.2	.1	.1	14.0	
NW	.1	.1	.2	.9	1.2	.4	.2	.1	*	*	4.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	*	.4	.9	1.2	.4	.1	*	*	.0	7.5	
TOT OBS	71	50	256	784	972	368	119	47	24	15	3444	6146
TOT PCT	1.2	.8	4.2	12.8	15.8	6.0	1.9	.7	.4	.2	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 >5GYD	= OR >0
= OR >6500	.6	.7	.7	.7	.7	.7	.7	.7
= OR >5000	1.2	1.4	1.4	1.4	1.4	1.4	1.4	1.4
= OR >3500	2.9	3.3	3.4	3.4	3.4	3.4	3.4	3.4
= OR >2000	7.8	9.1	9.3	9.3	9.3	9.3	9.3	9.3
= OR >1000	20.9	24.3	24.8	24.9	24.9	24.9	24.9	24.9
= OR >600	30.5	36.5	37.3	37.5	37.6	37.6	37.6	37.6
= OR >300	32.6	39.9	41.2	41.4	41.6	41.7	41.7	41.8
= OR >150	32.9	40.6	41.8	42.1	42.3	42.4	42.5	42.5
= OR > 0	33.4	41.4	42.8	43.3	43.5	43.6	43.7	43.7
TOTAL	2126	2632	2726	2752	2760	2772	2779	2781

TOTAL NUMBER OF OBS: 6362

PCT FREQ NH <5/8: 56.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
2.4	7.4	15.2	16.3	14.2	11.0	11.2	8.2	13.5	.6	6735

PERIOD: (PRIMARY) 1951-1979
(OVER-ALL) 1961-1979

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	*	*	*	*	.1	*	.0	.0	*	.2	
	NO PCP	.0	*	.0	*	*	.0	*	*	.0	.0	.1	
	TOT %	.0	*	*	*	*	.1	*	*	.0	*	.2	
1/2<1	PCP	*	*	.0	*	.1	*	*	.1	.0	.0	.2	
	NO PCP	*	*	.0	.0	*	.0	.0	.0	.0	.0	*	
	TOT %	*	*	.0	*	.1	*	*	.1	.0	.0	.3	
1<2	PCP	*	.0	*	*	.1	.1	.1	*	.0	.0	.4	
	NO PCP	*	*	.0	.0	*	*	*	*	.0	*	.1	
	TOT %	*	*	*	*	.1	.1	.2	*	.0	*	.6	
2<5	PCP	.1	*	.1	.1	.1	.3	.3	.2	.0	.1	1.2	
	NO PCP	*	*	*	*	.1	.2	.2	.1	.0	*	.7	
	TOT %	.1	.1	.1	.1	.2	.4	.5	.2	.0	.1	1.9	
5<10	PCP	.2	.2	.2	.5	.6	1.3	1.0	.4	.0	.2	4.6	
	NO PCP	.5	.3	.3	.6	1.2	2.1	2.4	.8	.0	.5	8.7	
	TOT %	.7	.5	.5	1.1	1.9	3.4	3.4	1.3	.0	.6	13.3	
10+	PCP	.2	.1	.2	.2	.6	1.2	1.2	.3	.0	.2	4.2	
	NO PCP	3.7	2.2	3.7	6.6	11.5	17.3	19.5	6.4	.0	9.3	79.5	
	TOT %	3.3	2.3	3.8	6.7	12.1	18.5	20.7	6.7	.0	9.5	83.8	
	TOT OBS												7616
	TOT PCT	4.1	2.9	4.5	8.0	14.4	22.5	24.9	8.3	.0	10.3	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	*	.1	
	4-10	*	.0	.0	*	*	*	*	*	.0		.2	
	11-21	.0	*	*	.0	.0	*	*	.0	.0		*	
	22+	.0	*	.0	*	.0	.0	.0	.0	.0		*	
	TOT %	*	*	*	*	*	.1	*	*	.0	*	.3	
1/2<1	0-3	*	*	.0	.0	*	.0	.0	.0	.0	.0	*	
	4-10	*	*	.0	.0	*	*	*	*	.0		.1	
	11-21	.0	.0	.0	*	.1	*	*	*	.0		.1	
	22+	*	.0	.0	.0	.0	.0	.0	.0	.0		*	
	TOT %	*	*	.0	*	.1	.1	*	.1	.0	.0	.3	
1<2	0-3	*	*	*	.0	*	*	*	*	.0	*	.1	
	4-10	*	.0	*	*	.1	.1	*	.1	.0		.3	
	11-21	*	.0	*	.0	*	.1	.1	*	.0		.2	
	22+	.0	.0	.0	.0	*	*	.0	.0	.0		*	
	TOT %	*	*	.1	*	.1	.2	.1	.1	.0	*	.6	
2<5	0-3	*	*	*	*	*	.1	*	*	.0	.1	.3	
	4-10	.1	*	.1	.1	.2	.3	.3	.2	.0		1.3	
	11-21	*	*	.1	*	.1	.2	.2	*	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.1	.2	.2	.3	.5	.6	.3	.0	.1	2.3	
5<10	0-3	.1	.1	.1	.1	.2	.2	.3	.2	.0	.6	1.9	
	4-10	.5	.3	.3	.7	1.3	2.0	2.1	.8	.0		8.0	
	11-21	.1	*	.1	.2	.3	1.0	1.0	.2	.0		3.0	
	22+	.0	.0	.0	*	*	*	*	*	.0		.1	
	TOT %	.7	.5	.4	1.1	1.8	3.3	3.4	1.2	.0	.6	13.1	
10+	0-3	.9	.5	.9	1.5	2.2	2.7	2.6	1.0	.0	9.7	22.0	
	4-10	2.2	1.5	2.5	4.6	8.7	13.2	14.6	5.0	.0		52.2	
	11-21	.2	.3	.4	.5	1.3	2.5	3.3	.7	.0		9.2	
	22+	*	*	*	.0	*	*	*	*	.0		.1	
	TOT %	3.3	2.3	3.9	6.7	12.1	18.4	20.5	6.7	.0	9.7	83.5	
	TOT OBS												7953
	TOT PCT	4.1	2.9	4.5	8.0	14.5	22.4	24.7	8.3	.0	10.5	100.0	

PERIOD: (PRIMARY) 1951-1979
(OVER-ALL) 1861-1979

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00E03	1.0	.8	3.6	11.4	15.1	5.7	1.7	.6	.4	.1	40.6	59.4	1730
06E09	1.2	.9	3.3	13.8	17.7	5.6	2.2	.6	.3	.3	46.0	54.0	1233
12E15	1.7	.8	5.3	13.3	14.7	5.8	2.3	.9	.1	.3	44.6	55.2	1658
18E21	.8	.6	3.9	11.8	14.5	6.2	1.9	.6	.6	.4	41.4	58.6	1928
TOT	76	50	268	816	1003	384	126	45	25	19	2811	3736	6549
PCT	1.2	.8	4.1	12.5	15.3	5.9	1.9	.7	.4	.3	42.9	57.1	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	.2	.2	.4	2.0	11.0	86.1	2020
06E09	.5	.1	.5	2.1	15.6	81.2	1681
12E15	.2	.	1.3	2.5	15.5	80.5	2044
18E21	.4	.4	.6	2.6	11.4	84.6	2540
TOT	27	24	54	192	1090	6898	8285
PCT	.3	.3	.7	2.3	13.2	83.3	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND/OR 5+	NM <5/8 AND 5+	TOTAL OBS
00E03	1.1	5.6	18.0	23.6	58.4	1681
06E09	1.3	5.8	20.7	26.9	52.4	1187
12E15	1.7	8.1	22.2	23.8	54.1	1611
18E21	.8	5.5	16.2	24.0	57.6	1883
TOT	78	400	1249	1549	3564	6362
PCT	1.2	6.3	19.6	24.3	56.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	*	*	.0	.0	.0	3	*
90/94	.0	.0	*	.1	.6	.3	.1	*	76	1.2
85/89	.0	.0	.0	.1	1.8	6.3	2.2	.5	729	10.9
80/84	.0	.0	*	*	1.2	17.4	39.5	8.5	4439	66.6
75/79	.0	.0	.0	.0	*	1.1	8.6	11.0	1382	20.7
70/74	.0	.0	.0	.0	*	*	*	.4	31	.5
TOTAL	0	0	2	19	244	1676	3360	1361	6662	100.0
PCT	.0	.0	*	.3	3.7	25.2	50.4	20.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

TEMP F	N	NE	E	SE	S	SW	W	NW	VAR	CALM
95/99	.0	.0	.0	*	.0	.0	.0	.0	.0	*
90/94	.1	*	*	.1	.2	.2	.2	.1	.0	.2
85/89	.4	.4	.6	1.1	1.4	1.6	2.9	.8	.0	1.6
80/84	2.2	1.5	2.8	4.6	9.8	15.6	17.1	5.2	.0	7.5
75/79	1.1	.8	1.0	1.5	3.2	5.1	4.9	1.6	.0	1.5
70/74	*	*	.0	.1	*	*	.2	.1	.0	.0
TOTAL										
PCT	3.8	2.8	4.5	7.8	14.6	22.6	25.3	7.8	.0	10.8

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	91	88	86	82	78	75	68	81.5	2183
06E09	89	86	84	81	77	75	70	80.7	1671
12E15	91	86	84	81	77	75	72	80.5	2206
18E21	96	91	88	83	77	75	70	82.8	2810
TOT	96	90	86	81	77	75	68	81.5	9073

TABLE 16

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	25.3	54.8	17.7	83	1757
06E09	.0	.0	1.1	18.1	57.9	23.0	85	1394
12E15	.0	.1	1.3	17.3	53.8	27.5	85	1758
18E21	.0	.9	8.7	36.8	38.9	14.7	80	2050
TOT	0	21	253	1756	3513	1416	83	6959

PERIOD: (PRIMARY) 1951-1979
(OVER-ALL) 1861-1979

AREA 0611 PUNTA BURICA
7.7N 83.0W

TABLE 17

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

AIR-SEA TMP DIF	65 68	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	*	.0	1	.0	*
11/13	.0	.0	.0	.0	*	*	*	.1	10	.0	.1
9/10	.0	.0	.0	*	*	.1	.2	*	28	.0	.4
7/8	.0	.0	.0	*	.1	.2	.3	*	45	.0	.6
6	.0	.0	.0	*	.1	.4	.2	.0	47	.0	.7
5	.0	.0	*	.1	.3	.5	.4	.0	94	.0	1.3
4	.0	.0	.0	.1	.4	1.1	.2	.0	131	.0	1.9
3	.0	.0	.0	.1	.6	1.2	.2	.0	167	.0	2.6
2	.0	.0	*	.1	2.1	1.7	.2	.0	326	.0	4.5
1	.0	.0	*	.3	3.7	1.7	.1	.0	409	*	5.7
0	.0	.0	*	1.5	8.0	1.5	*	.0	802	*	11.1
-1	.0	.0	.0	2.2	8.3	1.1	*	.0	843	*	11.7
-2	.0	.0	*	4.5	11.2	.6	.0	.0	1179	*	16.3
-3	.0	.0	.1	5.0	7.6	.3	.0	.0	941	.0	13.1
-4	.0	.0	.1	5.7	5.4	.1	.0	.0	614	.0	11.3
-5	.0	.0	.3	5.2	3.0	*	.0	.0	611	.0	8.5
-6	.0	.0	.4	3.3	.8	*	.0	.0	323	.0	4.5
-7/-8	.0	.0	.8	3.0	.6	*	.0	.0	322	.0	4.5
-9/-10	.0	*	.6	.6	.1	.0	.0	.0	99	.0	1.4
-11/-13	*	*	.2	.2	*	.0	.0	.0	36	.0	.5
-14/-16	.0	*	.0	*	*	.0	.0	.0	3	.0	*
-17/-19	.0	.0	*	.0	.0	.0	.0	.0	1	.0	*
TOTAL	2	5	194	2307	3806	758	122	12	7210	5	7205
PCT	*	.1	2.7	32.0	52.8	10.5	1.7	.2	100.0	.1	99.9

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

PCT FREQ OF 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	1.1	.3	.0	.0	.0	1.4
1-2	.1	1.2	*	.0	.0	.0	1.3
3-4	.0	.2	.0	.0	.0	.0	.2
5-6	.1	.0	*	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.5	.3	.0	.0	.0	3.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	.0	.0	.0	.0	.6
1-2	.2	1.2	.2	.0	.0	.0	1.5
3-4	.2	.3	.1	.0	.0	.0	.4
5-6	.1	.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	2.4	.5	.0	.0	.0	3.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.6	.0	.0	.0	.0	1.0
1-2	.2	1.5	.2	.0	.0	.0	1.9
3-4	.0	.2	.2	.0	.0	.0	.4
5-6	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	2.4	.5	.0	.0	.0	3.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.1	.0	.0	.0	.0	1.8
1-2	.4	3.5	.1	.0	.0	.0	3.9
3-4	.0	1.6	.0	.0	.0	.0	1.6
5-6	.0	.5	.0	.0	.0	.0	.5
7	.0	.1	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	5.7	.8	.0	.0	.0	7.6

PERIOD: (OVER-ALL) 1963-1979 AREA 6011 PUNTA BURICA 7.7N 83.0W

TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	1.6	.0	.0	.0	.0	2.9
1-2	.8	5.4	.5	.0	.0	.0	6.7
3-4	.1	2.3	.5	.1	.0	.0	2.9
5-6	•	.4	.5	•	.0	.0	1.0
7	.0	.1	.2	.0	.0	.0	.3
8-9	.0	.1	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.2	9.9	1.7	.1	.0	.0	13.9

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.5	3.3	.1	.0	.0	.0	4.9
1-2	1.2	9.9	1.6	.0	.0	.0	12.7
3-4	.1	3.6	1.2	.0	.0	.0	4.9
5-6	•	.9	.9	•	.0	.0	1.9
7	.0	•	.4	.0	.0	.0	.4
8-9	.0	.1	.1	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.8	17.9	4.3	•	.0	.0	25.1

ALL

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	5.6	.2	.0	.0	.0	5.1
1-2	1.1	10.0	1.5	.0	.0	.0	12.6
3-4	.1	4.1	2.2	.1	.0	.0	6.4
5-6	.0	.6	1.1	.0	.0	.0	2.1
7	.0	•	.2	.0	.0	.0	.3
8-9	.0	.1	•	.1	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.2	18.9	5.6	.1	.0	.0	26.8

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.5	.0	.0	.0	.0	1.5
1-2	.6	3.0	.4	.0	.0	.0	4.0
3-4	.1	.9	.2	.0	.0	.0	1.2
5-6	.0	.2	.5	.1	.0	.0	.7
7	.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	.9	5.7	1.2	.1	.0	.0	7.9

TOTAL PCT

HGT	PCT
<1	30.4
1-2	44.4
3-4	17.2
5-6	6.2
7	1.2
8-9	.4
10-11	.0
12	.0
13-16	.0
17-19	.0
20-22	.0
23-25	.0
26-32	.0
33-40	.0
41-48	.0
49-60	.0
61-70	.0
71-86	.0
87+	.0
TOT PCT	100.0

TOT OBS 1896

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT
<1	16.7	13.4	.3	.0	.0	.0	30.4
1-2	5.1	34.9	4.4	.0	.0	.0	44.4
3-4	.3	12.2	4.5	.2	.0	.0	17.2
5-6	.1	2.4	3.5	.2	.0	.0	6.2
7	.0	.2	.9	.1	.0	.0	1.2
8-9	.0	.2	.2	.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	22.2	63.5	13.4	.4	.0	.0	100.0

PERIOD: (OVER-ALL) 1949-1979

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	7.2	20.3	17.2	5.2	1.2	.5	.1	•	.1	•	.0	.0	.0	.0	.0	.0	.0	.0	.0	2934	3
6-7	.1	3.1	7.4	5.3	1.7	.4	.2	.1	•	•	.0	.0	.0	.0	.0	.0	.0	.0	.0	1039	4
8-9	.1	.8	3.1	2.3	.9	.4	.2	•	•	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	446	4
10-11	.0	1.0	1.3	.8	.4	.3	.1	•	•	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	227	4
12-13	.0	.0	1.0	.5	.2	.1	•	•	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100	4
>13	.0	.0	.0	.5	.5	•	•	•	•	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	61	6
INDET	9.8	1.9	2.3	.6	.2	.1	•	•	.0	•	.0	.0	.0	.0	.0	.0	.0	.0	.0	859	3
TOTAL	973	1539	1828	673	244	102	40	18	9	6	0	0	3	0	1	0	0	0	0	5664	3
PCT	17.2	27.2	32.3	11.9	4.3	1.8	.7	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1949-1976
(OVER-ALL) 1882-1976

AREA 0011 PUNTA GURICA
7.6N 83.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SNOW	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 BLNG	DUST SNOW	NO SIG WEA
N	14.0	5.9	1.2	.0	.0	.0	.0	21.1	10.3	4.6	.8	.0	.0	.0	.0	69.6
NE	14.5	5.6	2.9	.0	.0	.0	.0	23.0	9.4	3.9	.2	.0	.0	.0	.0	70.7
E	12.0	3.9	5.2	.0	.0	.0	.0	19.1	4.6	3.5	.0	.0	.0	.0	.0	73.9
SE	6.8	4.5	3.4	.0	.0	.0	.0	14.4	6.8	3.0	.3	.3	.0	.0	.0	76.1
S	7.7	5.3	3.0	.0	.0	.0	.0	15.7	8.6	3.9	.2	.0	.0	.2	.2	73.7
SW	7.1	5.2	2.4	.0	.0	.0	.0	14.5	8.2	3.6	.3	.0	.1	.0	.1	73.7
W	6.2	4.5	2.4	.0	.0	.0	.0	14.6	6.7	3.4	.3	*	.2	.0	.0	74.8
NW	7.8	4.2	2.0	.0	.0	.0	.0	14.0	7.1	3.4	.1	.0	.2	.1	.1	75.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.9	4.1	1.4	.0	.0	.0	.0	10.4	5.7	3.9	.0	.0	.0	.0	.0	81.1
TOT PCT	7.8	4.8	2.5	.0	.0	.0	.0	14.9	7.3	3.4	.2	*	.1	*	*	74.3
TOT OBS:	7150															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SNOW	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 BLNG	DUST SNOW	NO SIG WEA
00&03	6.9	4.2	2.3	.3	.0	.6	.0	13.3	6.8	2.6	.7	.1	.1	.1	.1	77.4
06&09	6.8	4.5	2.6	.3	.0	.6	.0	14.1	6.7	3.9	.5	.1	.0	.1	.1	69.2
12&15	9.0	4.3	2.7	.0	.0	.0	.0	17.7	9.2	2.8	.2	.0	.1	.1	.1	70.7
18&21	6.1	4.2	2.1	.0	.0	.0	.0	14.3	6.5	1.2	.2	.0	.1	.1	.0	77.9
TOT PCT	7.8	4.8	2.5	.3	.0	.3	.0	14.4	7.3	3.6	.2	*	.1	*	*	74.4
TOT OBS:	7265															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	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	1.7	.9	*	.0	.0		2.8	6.6	1.7	1.0	2.9	2.6	4.7	4.7	2.2	3.4
NE	.4	1.2	.2	*	.0	.0		1.8	6.3	.6	1.3	2.0	1.6	2.4	3.0	1.7	3.2
E	.9	2.3	.2	.0	.0	.0		3.1	6.5	2.8	3.0	3.8	1.5	3.3	3.4	3.0	3.0
SE	1.2	3.6	.7	*	*	.0		5.5	6.7	5.3	4.2	6.6	5.5	4.7	3.4	5.9	6.0
S	2.1	4.1	2.0	.1	.0	.0		13.2	7.3	15.7	10.4	13.2	12.2	10.8	12.7	13.1	16.7
SW	2.6	17.0	5.3	.1	.0	.0		25.1	8.1	28.4	27.4	21.7	26.7	22.0	22.9	26.1	31.9
W	2.9	27.8	7.1	.2	.0	.0		31.0	8.5	34.3	36.5	31.8	30.1	30.7	28.5	29.5	20.4
NW	.8	6.2	2.4	*	.0	.0		9.5	8.7	6.1	7.2	9.2	9.4	13.3	11.4	9.8	6.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.9							7.9	.0	5.0	9.0	6.7	10.4	6.1	9.1	8.9	8.6
TOT OBS	1607	5159	1528	34	1	0	6329		7.3	1857	156	1544	250	1726	230	2275	291
TOT PCT	19.3	61.9	18.3	.4	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.6	1.1	.1	.0	.0		2.8	6.6	1.7	2.8	4.7	2.3
NE	1.2	.5	.1	.0	.0		1.6	6.3	.7	2.0	2.6	1.8
E	1.9	1.2	.1	.0	.0		3.1	6.5	2.8	3.5	3.3	3.0
SE	3.3	2.1	.1	*	.0		5.5	6.7	5.2	6.5	4.6	5.9
S	6.8	6.0	.4	*	.0		13.2	7.3	15.3	13.1	11.0	13.5
SW	10.7	13.6	.4	.0	.0		25.1	8.1	28.4	22.4	22.1	26.8
W	11.9	17.9	1.2	*	.0		31.0	8.5	34.5	31.6	30.4	28.4
NW	3.6	5.3	.5	.0	.0		9.5	8.7	6.2	9.2	13.1	9.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	7.9						7.9	.0	5.3	9.0	8.2	6.8
TOT OBS	4070	3981	273	5	0	8329		7.3	2013	1744	1956	2566
TOT PCT	48.9	47.8	3.3	.1	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1969-1979
(OVER-ALL) 1962-1979

AREA 7611 PUNTA SUNICA
7.6% 83.0%

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00E03	5.3	10.2	62.5	21.6	.4	.0	.0	7.9	100.0	2013
06E09	9.0	10.9	61.9	17.6	.7	.0	.0	7.3	100.0	1794
12E15	8.2	10.8	63.5	17.3	.1	.0	.0	7.2	100.0	1956
18E21	6.8	13.2	60.3	17.2	.5	*	.0	7.1	100.0	2566
TOT	656	951	5159	1525	36	1	*	7.3		8329
PCT	7.9	11.4	61.9	18.3	.4	*	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.1	.4	1.2	1.2		6.5
NE	.1	.2	.7	.5		6.3
E	.1	.4	1.3	1.4		6.5
SE	.2	.6	2.8	1.7		6.3
S	.4	.9	6.2	5.8		6.7
SW	.7	2.2	11.4	9.6		6.6
W	1.2	3.6	15.3	12.7		6.4
NW	.3	1.1	4.2	4.1		6.5
VAR	.0	.0	.3	.0		.0
CALM	.4	1.3	3.4	1.9		6.0
TOT OBS	192	659	2666	2264	5675	6.5
TOT PCT	3.4	11.7	47.0	38.9	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	4M <5/8 ANY HGT	TOTAL OBS
N	.1	*	.1	.5	.5	.1	*	*	.0	.0	1.4	
NE	*	*	.1	.2	.2	.1	.1	.1	.0	*	.9	
E	*	*	.1	.7	.5	.4	.1	*	.0	.0	1.3	
SE	.1	.1	.2	.8	.4	.4	.1	*	*	*	2.7	
S	.1	.2	.6	2.1	2.7	.9	.4	.1	.1	*	6.1	
SW	.3	.2	1.2	4.3	4.7	1.6	.6	.1	*	.1	11.0	
W	.7	.1	1.4	5.8	6.3	2.4	.6	.1	*	.1	15.3	
NW	.1	*	.4	1.6	1.8	.8	.2	.1	*	.0	4.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	*	.3	.9	1.0	.7	.1	*	*	*	4.2	
TOT OBS	93	41	240	957	1051	401	136	37	12	12	2669	5675
TOT PCT	1.6	.7	4.2	16.9	18.5	7.1	2.4	.6	.2	.2	47.0	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) ≥ 0R >10	≥ 0R >5	≥ 0R >2	≥ 0R >1	≥ 0R >1/2	≥ 0R >1/4	≥ 0R >5070	≥ 0N >0
≥ 0R 26500	.4	.4	.4	.4	.4	.4	.4	.4
≥ 0R 25000	.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 0R >3500	2.9	3.3	3.4	3.4	3.4	3.4	3.4	3.4
≥ 0R >2000	8.9	10.2	10.4	10.5	10.5	10.5	10.5	10.5
≥ 0R >1000	23.7	27.6	28.5	28.8	28.8	28.9	28.9	28.9
≥ 0R >600	35.3	43.4	44.9	45.3	45.4	45.5	45.5	45.5
≥ 0R >300	37.5	47.0	48.9	49.4	49.5	49.6	49.7	49.7
≥ 0R >150	37.9	47.7	49.6	50.1	50.3	50.4	50.4	50.4
≥ 0R > 0	38.4	48.7	51.0	51.6	51.8	51.9	52.0	52.0
TOTAL	2239	2842	2978	3011	3020	3029	3034	3036

TOTAL NUMBER OF OBS: 5834 PCT FREQ 4M <5/8: 46.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCU	TOTAL OBS
1.3	4.5	11.9	14.3	15.3	10.6	12.9	9.4	18.7	1.0	6223

PERIOD: (PRIMARY) 1964-1974 AREA 0033 PUNTA BURICA
(DEVELOPABLE) 1962-1974 7.6N 83.0W

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	*	.0	.0	.0	.1	.1	.0	.0	*	.2	
	NO PCP	.1	.0	*	*	*	*	*	*	.0	.0	.1	
	TOT %	*	*	*	*	*	.1	.2	*	.0		.4	
1/2<1	PCP	*	*	.0	.0	*	*	*	*	.0	.0	.2	
	NO PCP	.1	.1	*	.0	*	*	.0	*	.0	*	.1	
	TOT %	*	*	*	.0	.1	.1	*	.1	.0	*	.3	
1<2	PCP	*	*	*	*	*	.1	.1	*	.0	.0	.4	
	NO PCP	*	*	*	*	*	.1	.1	*	.0	.0	.3	
	TOT %	*	*	.1	.1	.1	.2	.2	.1	.0	.0	.8	
2<5	PCP	.1	*	.1	.1	.1	.5	.6	.1	.0	*	2.0	
	NO PCP	.1	*	*	.1	.1	.3	.4	.1	.0	*	1.0	
	TOT %	.2	.1	.1	.2	.4	.8	.9	.2	.0	.1	3.0	
5<10	PCP	.2	.1	.2	.2	.6	1.5	1.8	.6	.0	.1	5.4	
	NO PCP	.2	.2	.4	.7	1.5	2.8	2.9	1.0	.0	1.9	10.2	
	TOT %	.4	.3	.6	.9	2.2	4.3	4.6	1.6	.0	2.1	16.2	
10+	PCP	.7	.1	.2	.6	.9	1.3	2.0	.6	.0	.1	6.1	
	NO PCP	2.0	1.1	2.1	3.6	6.6	10.0	24.1	7.7	.0	5.1	73.3	
	TOT %	2.2	1.2	2.3	4.2	10.5	19.3	26.1	7.4	.0	5.6	79.4	
	TOT OBS												7133
	TOT PCT	2.9	1.7	3.2	5.5	13.3	24.7	32.1	9.8	.0	6.9	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	*	.0	.0	*	*	
	4-10	.0	.0	.0	*	*	.1	.1	.0	.0		.2	
	11-21	*	*	.0	.0	.0	*	.1	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	*	*	.0	.0		*	
	TOT %	*	*	*	*	*	.1	.2	*	.0	*	.4	
1/2<1	0-3	*	*	.0	.0	.0	*	.0	*	.0	*	.1	
	4-10	.0	.0	*	.0	.1	*	.1	*	.0		.2	
	11-21	.0	*	.0	.0	.0	.1	*	*	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	*	.0	.1	.1	.1	*	.0	*	.3	
1<2	0-3	.0	.0	.0	.1	*	*	*	*	.0	.0	.1	
	4-10	*	*	.0	*	*	.1	.1	*	.0		.3	
	11-21	*	*	.0	*	*	.1	.1	*	.0		.3	
	22+	*	.0	.0	*	*	*	.0	*	.0		*	
	TOT %	*	*	.1	.1	.1	.2	.2	.1	.0	.0	.8	
2<5	0-3	*	*	*	*	*	*	*	*	*	.1	.1	
	4-10	*	.1	*	.1	*	.3	.5	.1	.0		1.0	
	11-21	*	*	.0	*	*	.1	.3	*	.0		1.1	
	22+	.0	.0	.0	.0	*	*	*	.0	.0		*	
	TOT %	.0	.1	.1	.2	.4	.9	1.1	.2	.0	.1	3.3	
5<10	0-3	.1	*	*	.1	.2	.3	.4	.1	.0	.2	.9	
	4-10	.1	.1	.1	.1	.3	.7	.9	.3	.0		2.4	
	11-21	.1	.1	.1	.2	.5	1.1	1.5	.5	.0		4.2	
	22+	*	.0	.0	.0	*	*	*	*	.0		.1	
	TOT %	.4	.3	.4	.4	1.0	2.1	2.9	.9	.0	.2	7.6	
10+	0-3	.6	.1	.4	.4	1.0	2.4	2.9	.7	.0	5.4	13.5	
	4-10	1.3	.6	1.7	2.8	7.1	13.3	17.8	5.2	.0		49.9	
	11-23	.3	.3	.1	.5	2.4	3.5	5.4	1.9	.0		13.3	
	22+	*	.0	.0	*	*	*	.1	*	.0		.2	
	TOT %	2.2	1.2	2.2	3.3	10.4	19.2	25.7	7.8	.0	5.4	76.8	
	TOT OBS												7517
	TOT PCT	2.9	1.7	3.1	5.5	13.2	24.4	31.8	9.8	.0	7.3	100.0	

JUNE

PERIOD: (PRIMARY) 1949-1979
(OVER-ALL) 1862-1979

AREA 0011 PUNTA BURICA
7.6N 83.0W

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	1.3	.7	4.1	15.8	17.8	7.0	1.9	.9	.4	.2	50.2	49.8	1593
06E09	2.6	.6	3.8	16.8	17.8	7.7	1.6	.2	.1	.6	51.6	48.2	1161
12E15	1.4	1.1	5.0	17.6	17.2	6.9	3.0	.6	.1	.1	53.0	47.0	1469
18E21	1.2	.6	3.4	15.4	18.7	6.3	2.6	.5	.2	.2	49.0	51.0	1774
TOT	93	43	245	977	1074	415	160	34	12	14	3067	2950	5997
PCT	1.6	.7	4.1	16.3	17.9	6.9	2.3	.6	.2	.2	50.8	49.2	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	.3	.4	.7	2.1	14.4	82.1	1886
06E09	.2	.2	.9	2.7	18.3	77.7	1646
12E15	.5	.5	1.1	4.6	16.7	76.7	1842
18E21	.5	.4	1.1	3.8	15.0	79.1	2359
TOT	31	29	74	258	1235	6106	7733
PCT	.4	.4	1.0	3.3	16.0	79.0	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 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00E03	1.4	6.5	22.9	28.3	48.6	1555
06E09	2.7	7.3	6.0	27.7	46.4	1121
12E15	1.5	7.8	27.4	27.3	45.3	1430
18E21	1.2	5.7	22.7	27.8	49.5	1728
TOT	93	393	431	1621	2782	5834
PCT	1.6	6.7	24.5	27.8	47.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	*	.0	.0	.0	.0	.0	1	*
90/94	.0	.0	.0	*	.2	.1	.1	.0	27	.4
85/89	.0	.0	.0	.1	.9	3.3	1.0	.3	366	5.6
80/84	.0	.0	*	*	.9	14.1	34.5	8.3	3593	57.8
75/79	.0	.0	.0	.0	.1	1.5	16.2	17.2	2180	35.1
70/74	.0	.0	.0	.0	.0	*	.1	1.0	72	1.2
TOTAL	0	0	2	7	130	1189	3223	1668	6219	100.0
PCT	.0	.0	*	.1	2.1	19.1	51.8	26.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	.0	.0	*	.0	.0	.0
	*	*	.0	*	*	.1	.1	*	.0	*
	.2	.1	.2	.5	.6	1.0	1.6	.6	.0	.7
	1.6	.9	1.6	3.0	7.2	13.7	19.5	5.3	.0	4.9
	1.0	.6	1.0	1.8	5.1	9.5	10.4	3.3	.0	2.4
	.1	*	.1	.1	.1	.2	.3	.1	.0	.1
	2.8	1.7	3.0	5.4	13.2	24.5	31.9	9.4	.0	8.1

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	93	86	84	80	76	74	71	80.4	2037
06E09	89	84	83	80	76	74	68	79.7	1857
12E15	92	35	83	80	76	74	72	79.6	1993
18E21	95	90	87	82	76	74	72	81.6	2609
TOT	95	87	85	80	76	74	68	80.4	8496

TABLE 16

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	1.4	18.6	54.6	25.4	85	1625
06E09	.0	.0	.9	11.8	57.0	30.3	86	1381
12E15	.0	.0	.8	12.4	53.6	33.1	87	1570
18E21	.0	.4	4.8	30.6	44.9	19.2	82	1852
TOT	0	9	135	1231	3347	1706	85	6428

PERIOD: (PRIMARY) 1949-1979
(OVER-ALL) 1862-1979

AREA 0611 PUNTA BURICA
7.6° 83.0W

TABLE 17

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

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	# FOG	%O FOG
14/16	.0	.0	.0	.0	*	.0	.0	.0	1	.0	*
11/13	.0	.0	.0	.0	*	*	*	*	6	.0	.1
9/10	.0	.0	.0	*	*	*	*	*	9	.0	.1
7/8	.0	.0	.0	.1	.1	.2	.1	.1	38	.0	.6
6	.0	.0	.0	*	.1	.1	.2	.0	34	.0	.5
5	.0	.0	.0	*	.4	.5	.1	.0	72	.0	1.1
4	.0	.0	.0	.1	.7	.9	.1	.0	121	.0	1.8
3	.0	.0	.0	.1	.7	.7	*	.0	99	.0	1.5
2	.0	.0	.0	.2	2.7	1.2	*	.0	281	.0	4.2
1	.0	.0	*	.5	3.3	1.0	.0	.0	317	*	4.7
0	.0	.0	.1	2.3	7.6	.6	.0	.0	711	*	10.5
-1	.0	.0	*	4.2	7.7	.2	.0	.0	821	*	12.1
-2	.0	.0	.1	9.2	8.2	.1	.0	.0	1184	.1	17.5
-3	.0	.0	.2	8.5	5.1	.1	.0	.0	934	.0	13.9
-4	.0	.0	.7	8.2	3.0	*	.0	.0	800	*	11.8
-5	.0	.0	.8	6.4	1.7	.0	.0	.0	599	*	8.9
-6	.0	.0	.9	2.9	.5	.0	.0	.0	286	.0	4.2
-7/-8	.0	.0	1.7	2.4	.3	.0	.0	.0	303	.0	4.5
-9/-10	.0	*	.6	.5	*	.0	.0	.0	92	.0	1.4
-11/-13	.0	.1	.2	.1	.0	.0	.0	.0	25	.0	.4
-14/-16	.0	.0	.0	*	.0	.0	.0	.0	1	.0	*
-17/-19	*	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	1	5	364	3678	2838	391	46	9	6736	15	6721
PCT	*	.1	5.5	45.7	42.1	5.8	.7	.1	100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

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

N

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

NE

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

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.6	*	.0	.0	.0	1.0
1-2	.2	1.0	.1	.0	.0	.0	1.3
3-4	.0	.5	.2	.0	.0	.0	.7
5-6	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.2	.5	.0	.0	.0	3.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.6	*	.0	.0	.0	1.2
1-2	.1	1.2	.3	.0	.0	.0	1.7
3-4	*	.5	.3	.0	.0	.0	.8
5-6	.0	.1	.3	*	.0	.0	.5
7	.0	*	.0	.0	.0	.0	*
8-9	.0	.1	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	2.5	1.0	*	.0	.0	4.2

JUNE

PERIOD: (OVER-ALL) 1963-1979 — TABLE 18 (CONT) — AREA 0711 PUNTA BURICA 7.6N 83.0W

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	2.0	.2	.0	.0	.0	3.2
1-2	.5	3.5	.3	.0	.0	.0	4.3
3-4	.3	1.7	.9	.1	.0	.0	3.0
5-6	.0	.5	.5	.1	.0	.0	1.1
7	.0	.1	.2	*	.0	.0	.4
8-9	.0	*	.0	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.8	7.8	2.2	.2	.0	.0	12.0

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	2.8	.1	.0	.0	.0	4.0
1-2	.7	6.0	1.7	.0	.0	.0	10.4
3-4	.1	3.3	3.4	.1	.0	.0	6.9
5-6	.1	1.1	2.0	.0	.0	.0	3.3
7	.0	.2	.2	*	.0	.0	.4
8-9	.0	.1	.2	.0	.0	.0	.3
10-11	.0	.0	.1	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.1	15.5	7.6	.1	.0	.0	25.3

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	3.8	.1	.0	.0	.0	4.7
1-2	1.1	12.1	3.1	.0	.0	.0	16.3
3-4	.2	5.8	4.4	.1	.0	.0	10.5
5-6	.1	1.3	2.3	.2	.0	.0	3.9
7	.0	.3	.4	.1	.0	.0	.7
8-9	.0	.1	.2	.1	.0	.0	.3
10-11	.0	.0	.1	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	*	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.2	23.4	10.5	.4	.0	.0	36.6

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.7	.0	.0	.0	.0	.9
1-2	.6	3.6	.7	.0	.0	.0	4.4
3-4	.6	1.3	1.2	.0	.0	.0	2.5
5-6	.3	.4	.6	.1	.0	.0	1.0	
7	.0	*	*	.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	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	6.1	2.6	.1	.0	.0	8.9

HGT	TOTAL PCT
<1	4.0
1-2	10.4
3-4	6.9
5-6	3.3
7	.4
8-9	.3
10-11	.1
12	.0
13-16	.0
17-19	.0
20-22	.0
23-25	.0
26-32	.0
33-40	.0
41-48	.0
49-60	.0
61-70	.0
71-86	.0
87+	.0
TOT PCT	99.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.3	11.1	.5	.0	.0	.0	22.8	
1-2	3.3	30.1	6.3	.0	.0	.0	39.8	
3-4	.8	13.2	10.5	.3	.0	.0	24.7	
5-6	.2	3.4	6.0	.4	.0	.0	9.9	
7	.0	.6	.9	.1	.0	.0	1.8	
8-9	.0	.2	.4	.1	.0	.0	.6	
10-11	.0	.0	.1	.1	.0	.0	.1	
12	.0	.0	.1	.0	.0	.0	.1	
13-16	.0	.0	.1	.0	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1712
TOT PCT	15.6	58.9	24.6	.9	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1979 — TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.7	16.4	17.0	7.3	1.8	1.1	.1	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	2569	3
6-7	.2	2.6	9.2	8.0	2.7	.8	.3	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1246	4
8-9	*	1.0	3.1	3.1	1.3	.5	.2	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	482	5
10-11	.0	.4	.8	1.1	.6	.2	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	196	5
12-13	.0	.0	.6	.7	.2	.2	*	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	90	5
>13	.0	.0	.0	.7	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	59	6
INDET	5.6	1.8	2.0	1.1	.1	.1	.1	.0	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	564	2
TOTAL	599	1177	1760	1191	359	154	49	12	9	6	0	0	0	0	0	0	0	0	0	5206	3
PCT	11.5	22.6	32.7	21.9	6.9	3.0	.9	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1951-1979
(OVER-ALL) 1886-1979

AREA 7011 PUNTA BURICA
7.7N 83.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG W0 PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	7.0	5.7	3.1	.0	.0	.0	.0	15.4	7.8	6.3	.0	.0	.0	.0	72.0
NE	5.2	4.0	3.0	.0	.0	.0	.0	12.1	8.1	6.7	.0	.0	.0	.0	73.7
E	7.7	3.9	2.7	.0	.0	.0	.0	13.9	7.9	6.5	.0	.0	.3	.0	71.4
SE	4.6	2.7	2.3	.0	.0	.0	.0	9.6	6.9	4.1	.0	.0	.1	.0	79.8
S	8.8	5.0	3.1	.0	.0	.0	.0	17.2	6.5	4.5	.0	.0	.5	.1	71.7
SW	6.6	4.2	2.9	.0	.0	.0	.0	13.6	7.9	3.9	.1	.0	.3	*	74.7
W	6.5	4.2	2.1	.0	.0	.0	.1	12.6	6.4	4.5	.2	.0	.1	.1	76.4
NW	6.1	5.1	1.6	.0	.0	.0	.1	14.8	8.0	6.0	.1	.0	.2	.0	72.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.8	1.9	1.7	.0	.0	.0	.0	6.5	5.0	5.0	.4	.0	.4	.2	82.5
TOT PCT	6.6	4.2	2.6	.0	.0	.0	*	13.3	7.0	4.6	.1	.0	.2	.1	75.2
TOT OBS:	7300														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE							OTHER WEATHER 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 W0 PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00E03	5.7	3.9	2.4	.0	.0	.0	.0	11.8	5.4	3.4	.3	.0	.1	.1	79.6
06E09	6.0	3.6	2.7	.0	.0	.0	.0	12.1	6.2	12.1	.1	.0	.4	.1	69.7
12E15	8.5	5.2	2.3	.0	.0	.0	.0	15.9	8.3	4.7	.1	.0	.3	.1	71.2
18E21	6.3	4.2	2.7	.0	.0	.0	.1	13.0	7.4	1.0	.1	.0	.3	.1	78.6
TOT PCT	6.6	4.2	2.5	.0	.0	.0	*	13.2	6.9	4.8	.1	.0	.3	.1	75.1
TOT OBS:	7537														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	1.6	.4	*	.0	.0		2.8	6.1	1.6	3.3	3.4	3.4	4.2	2.5	2.5	2.5
NE	.3	1.6	.4	*	.0	.0		2.3	7.6	1.4	1.7	3.0	2.4	2.8	2.3	2.2	1.0
E	.7	2.1	.5	*	*	.0		3.3	6.9	2.1	6.3	3.9	4.5	3.2	5.3	3.6	3.2
SE	.8	3.9	.5	*	.0	.0		5.3	6.8	4.6	2.4	6.2	6.1	4.0	5.2	6.1	7.6
S	1.9	4.8	1.8	.1	*	.0		13.6	7.3	12.9	15.6	13.6	10.2	11.7	15.7	15.5	15.3
SW	2.7	20.0	5.2	.2	*	.0		28.1	8.0	34.4	19.7	24.2	30.1	25.8	29.1	27.1	31.4
W	2.9	21.0	5.9	.1	*	.0		29.9	8.1	32.3	38.0	30.3	29.4	29.7	27.6	28.3	24.1
NW	1.1	5.6	1.4	*	.0	.0		8.1	7.6	6.2	6.8	8.2	7.3	10.5	8.5	7.6	11.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.6							6.6	.0	4.5	10.3	7.3	6.6	8.0	3.8	7.0	3.9
TOT OBS	1512	5524	1360	32	3	0	8431		7.2	1917	136	1550	244	1869	183	2278	254
TOT PCT	17.9	65.5	16.1	.4	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.8	1.0	.1	.0	.0		2.8	6.1	1.7	3.4	4.0	2.5
NE	1.1	1.1	.1	.0	.0		2.3	7.6	1.4	2.9	2.8	2.1
E	2.0	1.2	.1	*	*		3.3	6.9	2.4	4.0	3.4	3.6
SE	3.1	2.1	.1	.0	.0		5.3	6.8	4.4	6.2	4.1	6.3
S	6.8	6.5	.2	*	.0		13.6	7.3	13.1	13.2	12.1	15.5
SW	11.6	15.6	.8	*	*		28.1	8.0	33.4	25.0	26.1	27.5
W	12.4	16.6	.9	.0	*		29.9	8.1	32.4	30.2	29.5	27.9
NW	3.9	4.0	.3	.0	.0		8.1	7.6	6.3	8.1	10.3	7.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	6.6						6.6	.0	4.9	7.2	7.7	6.7
TOT OBS	4163	4042	217	7	2	8431		7.2	2053	1744	2052	2532
TOT PCT	49.4	47.9	2.6	.1	*		100.0		100.0	100.0	100.0	100.0

JULY

PERIOD: (PRIMARY) 1951-1979
(OVER-ALL) 1884-1979

AREA 0011 PUNTA BUNICA
7.7N 83.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00E03	4.9	9.1	67.2	18.2	.5	.1	.0	7.8	100.0	2053
06E09	7.2	10.1	65.4	17.0	.3	.0	.0	7.2	100.0	1794
12E15	7.7	11.8	64.7	15.4	.5	*	.0	7.0	100.0	2052
18E21	6.7	13.7	64.9	14.5	.3	.0	.0	6.9	100.0	2532
TOT	556	956	5524	1360	32	3	0	7.2		8431
PCT	6.6	11.3	65.5	16.1	.4	*	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.2	.3	1.2	1.1		6.4
NE	.1	.3	1.0	.7		6.1
E	.1	.4	1.4	1.0		6.3
SE	.3	.7	2.3	1.6		6.1
S	.3	1.4	6.3	5.5		6.6
SW	.8	2.4	13.5	11.9		6.6
W	1.5	3.6	13.8	11.3		6.3
NW	.4	.9	3.9	2.9		6.4
VAR	.0	.0	.0	.0		.9
CALM	.4	1.5	3.1	1.7		5.7
TOT OBS	247	688	2770	2253	5958	6.4
TOT PCT	4.1	11.5	46.5	37.8	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	WH <5/8 ANY HGT	TOTAL OBS
N	.1	.0	.1	.4	.4	.2	.1	.1	*	.1	1.4	
NE	.0	*	*	.3	.4	.2	*	.1	.0	*	1.2	
E	.1	*	.1	.6	.6	.2	*	.1	.0	*	1.3	
SE	.1	*	.2	.6	.9	.4	*	*	*	*	2.7	
S	.3	.1	.6	2.1	2.8	1.0	.4	*	*	.1	6.2	
SW	.3	.2	1.3	5.1	5.9	1.6	.6	.2	*	.1	13.4	
W	.3	.3	1.3	4.9	5.5	1.7	.9	.2	*	*	14.9	
NW	.1	*	.4	1.4	1.3	.5	.3	*	*	.1	4.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	*	.1	.6	1.0	.3	.1	*	.0	*	4.4	
TOT OBS	80	42	247	953	1113	365	148	31	11	17	2944	5958
TOT PCT	1.3	.7	4.1	16.0	18.7	6.1	2.5	.5	.2	.3	49.4	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >5OYD	= OR >0
= OR >6500	.5	.5	.5	.5	.5	.5	.5	.5
= OR >5000	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
= OR >3500	3.0	3.5	3.6	3.6	3.6	3.6	3.6	3.6
= OR >2000	8.3	9.6	9.7	9.8	9.8	9.8	9.8	9.8
= OR >1000	23.6	27.7	28.3	28.5	28.5	28.5	28.5	28.5
= OR >600	35.0	42.3	43.9	44.1	44.2	44.2	44.2	44.2
= OR >300	37.4	45.9	47.8	48.2	48.3	48.3	48.3	48.3
= OR >150	37.7	46.4	48.5	48.8	49.0	49.0	49.0	49.0
= OR > 0	38.0	47.1	49.5	50.0	50.2	50.3	50.3	50.3
TOTAL	2335	2893	3040	3072	3082	3087	3090	3092

TOTAL NUMBER OF OBS: 6142 PCT FREQ WH <5/8: 49.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
1.4	5.8	12.8	19.7	14.6	10.7	11.8	9.9	17.5	.9	6500

PERIOD: (PRIMARY) 1951-1979
(OVER-ALL) 1886-1979

AREA 0011 PUNTA BUAICA
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TABLE 8

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

VSBY (NMI)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	*	.0	*	.1	*	*	*	.0	.0	.2	
	NO PCP	.3	.0	.0	*	.0	*	*	.0	.0	.0	.1	
	TOT %	.3	*	.0	*	.1	.1	*	*	.0	.0	.2	
1/2<1	PCP	.3	*	*	*	*	*	.1	*	.0	.0	.3	
	NO PCP	.3	.0	.0	.0	.0	*	*	*	.0	.0	.1	
	TOT %	.6	*	*	*	*	.1	.1	*	.0	.0	.3	
1<2	PCP	*	*	*	*	.1	.2	.2	.1	.0	.0	.6	
	NO PCP	*	.0	*	.0	*	.2	.1	*	.0	.0	.3	
	TOT %	*	*	*	*	.1	.4	.2	.1	.0	.0	.9	
2<5	PCP	*	.1	.1	.1	.3	.4	.5	.1	.0	.1	1.7	
	NO PCP	.1	*	.1	*	.2	.4	.2	.1	.0	*	1.3	
	TOT %	.1	.1	.1	.2	.5	.9	.8	.2	.0	.1	3.0	
5<10	PCP	.1	*	.2	.1	.9	1.4	1.4	.4	.0	.1	4.6	
	NO PCP	.3	.2	.3	.5	1.2	2.8	2.6	.7	.0	.4	9.0	
	TOT %	.4	.3	.5	.7	2.1	4.2	4.0	1.1	.0	.4	13.6	
10+	PCP	.2	.1	.2	.2	1.0	1.7	1.6	.5	.0	.3	5.8	
	NO PCP	2.1	1.6	2.5	4.2	9.7	21.0	23.1	6.1	.0	5.5	76.0	
	TOT %	2.3	1.9	2.6	4.4	10.7	22.7	24.7	6.7	.0	5.8	81.8	
	TOT OBS												7203
	TOT PCT	2.9	2.3	3.3	5.3	13.5	28.3	29.9	8.2	.0	6.3	100.0	

TABLE 9

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

VSBY (NMI)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
	4-10	*	*	.0	*	*	.1	*	*	.0		.2	
	11-21	.0	*	.0	.0	*	.0	*	*	.0		.1	
	22+	.0	.0	.0	.0	*	*	.0	.0	.0		*	
	TOT %	*	*	.0	*	.1	.1	.1	*	.0	.0	.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	*	*	*	*	.1	*	.0		.2	
	11-21	.0	*	*	*	.0	*	.1	*	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	*	*	*	.1	.2	*	.0	.0	.4	
1<2	0-3	.0	.0	*	.0	*	*	*	.0	.0	*	.1	
	4-10	*	*	*	*	.1	.3	.2	.1	.0		.7	
	11-21	.0	.0	*	*	*	.1	.1	.1	.0		.3	
	22+	*	.0	.0	.0	.0	.0	.0	.0	.0		*	
	TOT %	*	*	*	*	.2	.4	.3	.1	.0	*	1.0	
2<5	0-3	.0	.0	*	*	*	*	.1	*	.0	.1	.4	
	4-10	.1	.1	.1	.1	.4	.7	.6	.2	.0		2.2	
	11-21	*	*	.1	*	.1	.3	.3	.1	.0		.9	
	22+	.0	*	*	.0	*	*	.0	.0	.0		.1	
	TOT %	.1	.1	.2	.2	.6	1.0	1.0	.3	.0	.1	3.5	
5<10	0-3	.1	.0	.1	.1	.1	.2	.2	.1	.0	.4	1.4	
	4-10	.2	.2	.3	.5	1.4	2.5	2.4	.8	.0		8.1	
	11-21	.2	.1	.1	.1	.5	1.3	1.3	.3	.0		3.8	
	22+	*	.0	*	*	*	.1	.0	*	.0		.1	
	TOT %	.4	.2	.5	.7	2.0	4.0	4.0	1.2	.0	.4	13.4	
10+	0-3	.8	.3	.6	.7	1.7	2.3	2.4	1.0	.0	6.1	15.8	
	4-10	1.3	1.4	1.8	3.3	7.7	16.2	17.4	4.6	.0		53.8	
	11-21	.2	.3	.3	.4	1.2	3.7	4.4	1.0	.0		11.6	
	22+	.0	.0	*	*	*	.1	.1	*	.0		.2	
	TOT %	2.3	1.9	2.7	4.4	10.6	22.3	24.3	6.6	.0	6.1	81.4	
	TOT OBS												7642
	TOT PCT	2.9	2.3	3.3	5.4	13.5	27.9	29.7	8.2	.0	6.7	100.0	

JULY

PERIOD: (PRIMARY) 1951-1979
(OVER-ALL) 1886-1979

AREA 0G11 PUNTA BURICA
7.7N 83.0W

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	1.3	.6	3.3	15.9	16.2	5.9	2.5	.7	.1	.3	48.6	51.2	1654
06E09	1.5	.2	3.6	15.5	19.6	5.8	2.5	.3	.2	.7	49.6	50.2	1216
12E15	1.5	.9	5.1	16.3	18.1	5.6	1.8	.7	.3	.1	50.2	49.8	1617
18E21	.9	.9	4.0	14.0	17.6	7.0	2.7	.6	.2	.3	48.3	51.7	1819
TOT	80	43	253	969	1152	384	151	38	11	21	3102	3204	6306
PCT	1.3	.7	4.0	15.4	18.3	6.1	2.4	.6	.2	.3	49.2	50.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.2	.3	.4	2.6	11.6	84.5	1925
06E09	.3	.1	.4	3.4	14.3	81.1	1667
12E15	.5	.3	1.5	4.6	13.5	79.5	1959
18E21	.3	.7	.9	3.4	13.7	81.0	2329
TOT	26	28	80	276	1046	6422	7878
PCT	.3	.4	1.0	3.5	13.3	81.5	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NM <5/8 AND 5+	TOTAL OBS
00E03	1.4	5.5	22.6	27.5	49.9	1612
06E09	1.5	5.5	22.9	28.7	48.5	1176
12E15	1.5	7.8	25.3	26.5	48.2	1574
18E21	.9	6.1	21.1	28.4	50.5	1780
TOT	80	384	1407	1703	3032	6142
PCT	1.3	6.3	22.9	27.7	49.4	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	*	.1	.3	.2	.0	.0	34	.5
85/89	.0	.0	.0	.1	.9	3.5	1.0	.2	365	5.7
80/84	.0	.0	*	.0	.4	14.6	33.7	7.4	3624	56.5
75/79	.0	.0	.0	.0	.1	1.6	17.9	16.3	2310	36.0
70/74	.0	.0	.0	.0	.0	.0	.1	1.1	76	1.2
TOTAL	0	0	3	10	128	1286	3387	1602	6409	100.0
PCT	.0	.0	*	.2	2.0	20.1	52.7	25.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	*	*	*	*	.1	.1	.1	*	.0	.1
	.3	.2	.2	.3	.6	1.4	1.6	.5	.0	.7
	1.5	1.1	1.5	2.6	7.3	15.5	18.3	4.6	.0	3.9
	1.1	.4	1.3	1.7	5.6	11.2	9.8	2.6	.0	1.8
	.1	.1	*	.1	.1	.3	.3	.1	.0	*
	2.9	2.2	3.1	4.6	13.8	28.5	30.2	7.9	.0	6.5

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	94	86	84	80	77	75	72	80.4	2077
06E09	91	84	83	80	76	74	71	79.6	1658
12E15	91	84	83	79	76	74	71	79.4	2120
18E21	94	90	87	82	76	74	69	81.7	2585
TOT	94	88	85	80	76	74	69	80.4	4640

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.2	1.1	19.6	57.2	21.8	85	1676
06E09	.0	.1	.9	14.0	56.9	28.2	86	1387
12E15	.0	.0	.6	11.1	56.2	32.1	87	1699
18E21	.0	.4	4.8	23.3	43.2	18.3	82	1864
TOT	0	13	131	1332	3507	1643	85	6626

JULY

PERIOD: (PRIMARY) 1951-1979
(OVER-ALL) 1886-1979

AREA 0011 PUNTA BURICA
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TABLE 17

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

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	# FOG	NO FOG
14/16	.0	.0	.0	*	.0	.0	.0	1	.0	*
11/13	.0	.0	.0	.0	*	*	*	7	.0	.1
9/10	.0	.0	.0	*	*	.1	*	17	.0	.2
7/8	.0	.0	*	.2	.2	.1	*	36	.0	.5
6	.0	.0	*	.1	.2	.1	.0	29	.0	.4
5	.0	.0	.1	.1	.5	.2	.0	64	.0	.9
4	.0	.0	.1	.5	1.0	.1	.0	117	.0	1.7
3	.0	*	.1	.8	.6	*	.0	116	*	1.7
2	.0	.0	.2	2.5	1.3	*	.0	272	.0	4.0
1	.0	.0	.4	3.1	.6	.0	.0	297	.0	4.4
0	.0	*	2.9	9.1	.5	*	.0	854	.0	12.5
-1	.0	.1	4.3	7.5	.2	.0	.0	827	.0	12.1
-2	.0	.2	8.6	8.4	.1	.0	.0	1180	*	17.3
-3	.0	.3	9.7	4.7	*	.0	.0	1006	.1	14.7
-4	.0	.8	8.3	2.3	.0	.0	.0	778	.0	11.4
-5	*	1.0	5.5	.8	.0	.0	.0	500	*	7.3
-6	.0	1.2	3.1	.3	*	.0	.0	316	.0	4.6
-7/-8	.0	1.6	2.3	.2	*	.0	.0	283	.0	4.1
-9/-1.	.1	.7	.4	*	.0	.0	.0	87	.0	1.3
-11/-13	.1	.2	.1	*	.0	.0	.0	30	.0	.4
-14/-16	.0	.1	*	.0	.0	.0	.0	8	.0	.1
TOTAL	11	421	3163	2775	405	47	3	6825	7	6818
PCT	.2	6.2	46.3	40.7	5.9	.7	*	100.0	.1	99.9

PERIOD: (OVER-ALL) 1965-1979

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.4	.1	.0	.0	.0	.9
1-2	.1	1.2	.1	.0	.0	.0	1.4
3-4	.1	.1	.2	.1	.0	.0	.5
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
71-85	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	1.7	.4	.1	.0	.0	2.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.2	.0	.0	.0	.0	.2
1-2	.1	1.0	.2	.0	.0	.0	1.2
3-4	.0	.4	.1	.0	.0	.0	.6
5-6	.0	.3	.1	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-85	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.4	.4	.0	.0	.0	2.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.3	.0	.0	.0	.0	.5
1-2	.1	1.0	.2	.0	.0	.0	1.3
3-4	.0	.2	.2	.0	.0	.0	.4
5-6	.0	.1	.1	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	*	.0	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.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	.3	1.7	.5	.1	.0	.0	2.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.7	.1	.0	.0	.0	1.0
1-2	.2	1.9	.3	.0	.0	.0	2.4
3-4	*	.7	.2	.0	.0	.0	.9
5-6	.0	.2	*	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.1	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.6	.6	.0	.0	.0	4.6

PERIOD: (OVER-ALL) 1963-1979

JULY

AREA OF11 PUNTA BURICA 7.7N 83.0W

TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	2.1	.1	.0	.0	.0	2.7
1-2	1.0	4.7	.3	.0	.0	.0	5.9
3-4	.3	1.9	.8	.1	.0	.0	3.2
5-6	.0	.6	.4	.0	*	.0	1.1
7	.0	*	.0	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	*	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.8	9.5	1.7	.1	*	.0	13.1

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.9	22.0	5.9	.2	*	.0	29.9
1-2							
3-4							
5-6							
7							
8-9							
10-11							
12							
13-16							
17-19							
20-22							
23-25							
26-32							
33-40							
41-48							
49-60							
61-70							
71-86							
87+							
TOT PCT							

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	4.2	.1	.0	.0	.0	5.1
1-2	1.1	12.2	1.0	.0	.0	.0	14.3
3-4	.1	5.4	3.3	.0	.0	.0	8.7
5-6	.0	.5	1.1	.0	.0	.0	1.6
7	.0	.1	.4	.0	.0	.0	.5
8-9	.0	*	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.0	22.4	5.9	.0	.0	.0	30.3

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	6.1	1.4	.0	.0	.0	8.3
1-2							
3-4							
5-6							
7							
8-9							
10-11							
12							
13-16							
17-19							
20-22							
23-25							
26-32							
33-40							
41-48							
49-60							
61-70							
71-86							
87+							
TOT PCT							

TOTAL

HGT	PCT
<1	1.5
1-2	4.5
3-4	1.8
5-6	.4
7	.1
8-9	*
10-11	.0
12	.0
13-16	.0
17-19	.0
20-22	.0
23-25	.0
26-32	.0
33-40	.0
41-48	.0
49-60	.0
61-70	.0
71-86	.0
87+	.0
TOT PCT	8.3

94.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT
<1	10.0	13.3	.6	.0	.0	.0	23.9
1-2	9.8	36.5	9.2	.0	.0	.0	45.5
3-4	.7	14.0	7.0	.2	.0	.0	21.8
5-6	.1	2.9	3.7	.1	.1	.0	6.7
7	.0	.5	.8	.0	.0	.0	1.3
8-9	.0	.2	.2	.0	.0	.0	.4
10-11	.0	.0	.1	.1	.0	.0	.2
12	.0	.0	.0	.1	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	15.6	67.4	16.5	.4	.1	.0	100.0

TOT OBS

1964

PERIOD: (OVER-ALL) 1949-1979

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	6.2	18.5	17.0	6.4	1.4	.5	.2	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	2739	1
6-7	.2	2.9	9.5	7.0	2.9	.7	.4	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	1304	4
8-9	*	.9	3.0	3.9	1.2	.7	.2	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	556	5
10-11	.0	.6	1.0	1.0	.5	.3	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	190	5
12-13	.0	.0	.9	.5	.2	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	92	6
>13	.0	.0	.0	.3	.2	.1	.0	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	35	7
INDET	5.1	1.3	1.9	1.1	.3	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	541	2
TOTAL	629	1327	1614	1107	374	126	54	11	8	5	1	1	0	0	0	0	0	0	0	5457	3
PCT	11.5	24.3	33.2	20.3	6.9	2.3	1.0	.2	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1951-1979
(OVER-ALL) 1887-1979

AREA 0031 PUNTA BURICA
7.6N 83.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	11.9	6.0	6.0	.0	.0	.0	.0	23.1	10.5	4.2	.0	.0	.4	.0	62.5
NE	10.1	2.8	4.9	.0	.0	.0	.0	17.1	6.7	4.8	.7	.0	.0	.0	71.3
E	10.5	4.1	1.0	.0	.0	.0	.0	15.6	8.8	5.6	.0	.0	1.0	.5	68.8
SE	6.6	4.5	3.7	.0	.0	.0	.0	14.4	7.2	3.7	.1	.0	.1	.0	75.3
S	8.7	4.4	3.1	.0	.0	.0	.1	15.5	6.9	3.0	.2	.0	.4	.0	72.2
SW	10.0	4.7	2.2	.0	.0	.0	*	17.4	8.5	4.1	.2	.0	.2	.1	69.8
W	8.8	4.5	2.0	.0	.0	.0	*	14.9	7.4	3.7	.2	.0	.1	*	74.1
NW	10.0	5.1	2.5	.0	.0	.0	.0	17.5	9.8	4.4	.2	.0	.2	.0	72.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.5	2.7	2.5	.0	.0	.0	.0	7.2	4.6	4.6	.0	.0	.0	.2	83.5
TOT PCT	6.9	4.5	2.8	.0	.0	.0	*	15.7	7.7	3.9	.2	.0	.2	.1	72.7
TOT OBS:	7597														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER 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	7.6	4.6	2.3	.0	.0	.0	.1	14.2	5.7	3.2	.4	.0	.1	.2	76.7
06&09	8.7	3.6	3.9	.0	.0	.0	.0	15.6	7.3	10.3	.2	.1	.4	.0	66.7
12&15	10.6	5.6	2.5	.0	.0	.0	.0	18.3	9.3	3.2	.2	.0	.1	.0	69.3
18&21	6.8	4.0	2.7	.0	.0	.0	*	14.9	6.1	1.1	.1	.1	.3	.1	75.8
TOT PCT	9.0	4.5	2.4	.0	.0	.0	*	15.8	7.7	4.0	.2	.0	.2	.1	72.5
TOT OBS:	7655														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)					
WND DIR	0-3	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.		.1	.0	.0		2.7	6.9	1.8 1.2	3.3 3.7	3.6 3.3	2.4 1.9
NE	.3	1.		*	.0	.0		1.8	6.5	1.4 .7	1.7 2.1	2.2 4.3	1.8 1.7
E	.6	1.7		.0	.0	.0		2.6	6.5	2.1 4.2	3.9 1.3	2.2 2.4	2.6 1.0
SE	1.0	3.4	.6	*	*	.0		5.1	6.9	3.8 3.9	6.3 3.1	4.5 5.9	6.0 5.3
S	2.2	10.3	1.7	*	.0	.0		14.3	7.0	15.3 16.8	13.4 15.3	11.2 14.0	15.9 16.5
SW	2.7	19.9	6.1	.1	*	.0		28.9	8.3	33.7 31.7	26.2 27.8	27.0 20.9	28.2 34.3
W	2.4	21.4	6.7	.1	*	.0		30.7	8.5	32.7 25.7	29.4 31.9	30.6 32.0	30.0 30.7
NW	.8	5.3	1.5	*	*	.0		7.7	7.9	4.8 8.1	8.6 7.5	11.0 10.9	6.8 4.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0 .0	.0 .0	.0 .0	.0 .0
CALM	6.3							6.3	.0	4.3 5.6	7.2 7.4	7.6 6.4	6.5 3.7
TOT OBS	1510	5722	1540	32	*	0	8808		7.4	1987 142	1580 259	1997 188	2384 272
TOT PCT	17.1	65.0	17.5	.4	*	.0		100.0		100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.5	1.1	.1	.0	.0		2.7	6.9	1.7	3.4	3.6	2.4
NE	1.1	.7	*	*	.0		1.8	6.5	1.4	1.7	2.4	1.8
E	1.4	.9	*	.0	.0		2.6	6.5	2.2	3.6	2.2	2.4
SE	2.8	2.2	.1	*	.0		5.1	6.9	3.6	5.6	4.6	5.9
S	7.6	6.3	.4	.0	.0		14.3	7.0	15.4	13.7	11.5	16.0
SW	11.4	16.5	1.0	*	.0		28.9	8.3	33.6	26.4	26.5	28.8
W	11.9	17.5	1.2	*	.0		30.7	8.5	32.3	29.7	30.8	30.0
NW	3.5	4.0	.2	*	.0		7.7	7.9	5.0	8.5	11.0	6.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	6.3						6.3	.0	4.6	7.2	7.5	6.2
TOT OBS	4203	4330	268	7	0	8808		7.4	2129	1838	2185	2656
TOT PCT	47.7	49.2	3.0	.1	.0		100.0		100.0	100.0	100.0	100.0

AUGUST

PERIOD: (PRIMARY) 1951-1979
(OVER-ALL) 1889-1979

TABLE 4

AREA 0011 PUNTA BURICA
7.6N 83.0W

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00-03	4.4	9.5	65.9	19.7	.4	.1	.0	7.9	100.0	2129
04-09	7.2	10.1	65.3	17.2	.2	.0	.0	7.3	100.0	1838
12-15	7.5	11.1	64.3	16.7	.3	*	.0	7.2	100.0	2185
16-21	6.2	12.3	64.5	16.5	.5	*	.0	7.3	100.0	2656
TOT	554	956	5722	1540	32	4	0	7.4		8808
PCT	6.3	10.9	65.0	17.5	.4	*	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.1	.4	1.1	1.3		6.5
NE	.1	.2	.7	.8		6.6
E	.1	.2	1.2	1.0		6.5
SE	.3	.8	2.1	1.9		6.2
S	.5	1.5	7.0	5.2		6.4
SW	.6	2.7	12.7	12.9		6.7
W	1.0	3.2	14.4	12.1		6.5
NW	.3	.4	3.6	2.9		6.4
VAR	.0	.0	.0	.0		.0
CALM	.4	1.0	3.4	1.6		5.9
TOT OBS	210	670	2451	2853	6184	6.5
TOT PCT	3.4	10.8	46.1	39.7	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	*M <5/8 ANY HGT	TOTAL OBS
N	.0	.1	.3	.4	.5	.2	*	*	.0	.0	1.4	
NE	*	.0	*	.3	.4	.1	*	*	.0	*	.6	
E	*	*	.3	.3	.4	.2	*	*	.0	*	1.2	
SE	*	*	.2	.9	.8	.3	.1	*	*	.0	2.6	
S	.2	.2	.6	2.3	3.0	1.2	.4	.1	*	*	6.3	
SW	.5	.2	1.4	5.6	5.6	1.6	.8	.2	.1	.1	12.7	
W	.4	.4	1.5*	4.7	6.2	2.1	.9	.3	.1	.1	14.1	
NW	.2	.1	.2	1.4	1.2	.4	.1	.1	*	*	3.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	*	.2	.6	1.2	.4	.2	*	.0	.0	2.9	
TOT OBS	95	63	291	1024	1189	413	153	37	13	13	893	6184
TOT PCT	1.5	1.0	4.7	16.6	19.2	6.7	2.5	.6	.2	.2	46.8	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >5070	= OR >0
= OR >6500	.3	.4	.4	.4	.4	.4	.4	.4
= OR >5000	.8	1.0	1.0	1.0	1.0	1.1	1.1	1.1
= OR >3500	3.0	3.4	3.4	3.5	3.5	3.5	3.5	3.5
= OR >2000	8.4	9.8	9.9	10.0	10.0	10.0	10.0	10.0
= OR >1000	24.1	28.5	29.0	29.2	29.3	29.3	29.3	29.3
= OR >600	35.3	43.5	45.1	45.5	45.6	45.6	45.7	45.7
= OR >300	37.8	47.3	49.5	50.0	50.1	50.2	50.3	50.4
= OR >150	38.3	48.1	50.5	51.0	51.1	51.2	51.4	51.4
= OR > 0	36.9	49.0	51.7	52.3	52.5	52.7	52.8	52.9
TOTAL	2484	3176	3300	3339	3349	3359	3371	3373

TOTAL NUMBER OF OBS: 6379 PCT FREQ *M <5/8: 47.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
.9	9.7	11.1	14.8	15.1	10.9	12.4	1^.3	19.5 .9	6747

AUGUST

PERIOD: (PRIMARY) 1951-1979
(OVER-ALL) 1889-1979

AREA 0C31 PUNTA BURICA
7.6N 83.0W

TABLE E

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	.0	.0	*	.1	.1	.1	.1	.0	*	.3	
	NO PCP	.0	.0	.0	*	*	*	.0	.0	.0	.0	.1	
	TOT %	*	.0	.0	*	.1	.1	.1	.1	.0	*	.4	
1/2<1	PCP	.0	.0	.0	*	*	.1	.1	*	.0	*	.2	
	NO PCP	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	.0	*	*	.1	.1	*	.0	*	.2	
1<2	PCP	*	*	*	.1	.1	.2	.3	*	.0	*	.8	
	NO PCP	*	*	*	*	.1	.1	*	.0	.0	.0	.3	
	TOT %	*	.1	.1	.1	.2	.3	.3	*	.0	*	1.1	
2<5	PCP	.2	.1	.1	.1	.2	.6	.7	.3	.0	*	2.2	
	NO PCP	*	*	.1	.1	.2	.4	.2	.1	.0	*	1.1	
	TOT %	.2	.1	.1	.2	.5	1.0	.9	.4	.0	.1	3.4	
5<10	PCP	.2	.1	.1	.2	.9	2.2	1.9	.4	.0	.1	6.0	
	NO PCP	.2	.2	.3	.4	1.2	3.1	2.9	.6	.0	.5	9.4	
	TOT %	.4	.2	.5	.7	2.1	5.3	4.7	1.0	.0	.6	15.4	
10+	PCP	.3	.1	.1	.3	.9	1.9	1.6	.6	.0	.2	6.0	
	NO PCP	1.9	1.2	1.7	3.9	10.4	20.4	22.9	5.6	.0	5.3	73.5	
	TOT %	2.1	1.5	1.9	4.3	11.3	22.3	24.5	6.2	.0	5.5	79.5	
	TOT OBS												7590
	TOT PCT	2.7	1.9	2.5	5.2	14.1	29.0	30.6	7.6	.0	6.3	100.0	

TABLE F

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	*	*	*	.0	.0	.0	*	.1	
	4-10	*	.0	.0	.0	.1	.1	.1	.1	.0		.3	
	11-21	.0	.0	.0	.0	*	*	.0	*	.0		.1	
	22+	.0	.0	.0	*	.0	.0	*	.0	.0		*	
	TOT %	*	.0	.0	*	.1	.1	.1	.1	.0	*	.5	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	.0	.0	.0	.0	*	*	*	*	.0		.1	
	11-21	.0	.0	.0	.0	.0	.1	*	.0	.0		.1	
	22+	.0	.0	.0	*	*	.0	.0	.0	.0		*	
	TOT %	.0	.0	.0	*	*	.1	.1	*	.0	*	.2	
1<2	0-3	.0	*	.0	.0	*	*	*	.0	.0	*	.1	
	4-10	*	*	.1	.1	.1	.1	.1	.0	.0		.4	
	11-21	*	*	.0	*	.1	.1	.1	*	.0		.4	
	22+	.0	.0	.0	*	.0	*	*	.0	.0		.1	
	TOT %	*	.1	.1	.1	.2	.3	.3	*	.0	*	1.1	
2<5	0-3	.0	*	*	*	.1	.1	*	*	.0	.1	.4	
	4-10	.1	*	.1	.1	.4	.6	.7	.2	.0		2.2	
	11-21	.1	*	.1	.1	.1	.4	.4	.2	.0		1.3	
	22+	.0	.0	.0	.0	*	*	.0	.0	.0		*	
	TOT %	.2	.1	.2	.2	.5	1.1	1.0	.4	.0	.1	3.9	
5<10	0-3	*	*	.1	.1	.2	.3	.3	.1	.0	.6	1.7	
	4-10	.3	.2	.3	.4	1.3	3.2	2.7	.6	.0		9.0	
	11-21	*	*	.1	.1	.5	1.7	1.6	.3	.0		4.4	
	22+	*	*	.0	.0	*	*	*	.0	.0		.1	
	TOT %	.4	.2	.5	.7	2.1	5.2	4.6	1.0	.0	.6	15.2	
10+	0-3	.7	.2	.5	.9	1.9	2.4	2.2	.7	.0	5.6	15.0	
	4-10	1.1	1.1	1.2	2.9	8.2	15.6	17.6	4.3	.0		52.1	
	11-21	.2	.1	.2	.4	1.1	4.0	4.7	1.1	.0		11.6	
	22+	.1	*	.0	.0	*	*	.1	*	.0		.2	
	TOT %	2.0	1.4	1.8	4.2	11.2	22.2	24.5	6.1	.0	5.6	79.1	
	TOT OBS												7925
	TOT PCT	2.7	1.8	2.5	5.2	14.1	29.0	30.7	7.6	.0	6.3	100.0	

AUGUST

PERIOD: (PRIMARY) 1951-1979
(OVER-ALL) 1889-1979

AREA 3011 PUNTA BORICA
7.6N 83.0W

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	AM <5/8 ANY >6?	TOTAL OBS
00E03	.9	.9	5.1	15.2	17.7	6.5	2.5	.6	.2	.2	49.6	50.1	1702
06E09	1.6	1.1	3.9	17.5	20.0	6.6	1.9	.6	.3	.4	54.3	49.7	1224
12E15	2.1	1.1	4.7	16.9	19.0	6.3	2.5	.5	.2	.1	52.4	47.1	1703
18E21	1.5	.9	4.9	15.6	19.0	6.3	2.6	.6	.1	.1	51.2	49.8	1695
TOT	99	65	298	1047	1231	421	156	41	13	13	3386	3138	6524
PCT	1.5	1.0	4.6	16.0	18.9	6.5	2.4	.6	.2	.2	51.9	48.1	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	.5	.2	.9	2.3	12.6	83.3	1978
06E09	.3	.2	.9	3.8	17.3	77.5	1687
12E15	.5	.3	1.5	4.3	16.5	76.8	2080
18E21	.7	.3	1.1	4.6	14.4	78.8	2044
TOT	43	20	62	313	1240	6479	8169
PCT	.5	.2	1.1	3.8	15.7	79.1	100.0

TABLE 12

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

HOUR (GMT)	<150 <500YD	<600 <1	<1000 <5	1000+ AND/OR 5+	AM <5/8 AND 5+	TOTAL OBS
00E03	.9	7.2	25.3	27.9	48.6	1663
06E09	1.7	6.8	25.7	31.2	44.2	1154
12E15	2.2	8.5	26.4	27.9	45.7	1660
18E21	1.5	7.2	24.1	26.3	47.7	1656
TOT	98	475	1562	1815	2985	6375
PCT	1.5	7.4	24.6	28.5	46.7	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	.1	.1	.1	*	*	21	.3
85/89	.0	.0	.0	.0	.8	2.9	1.1	.2	334	5.0
80/84	.0	.0	.0	*	.5	14.3	31.4	6.3	3536	52.6
75/79	.0	.0	.0	*	*	1.6	19.2	19.5	2711	40.4
70/74	.0	.0	.0	.0	.0	.0	.2	1.3	99	1.5
65/69	.0	.0	.0	.0	.0	.0	.0	*	2	*
TOTAL	0	0	0	8	96	1279	3490	1830	6703	100.0
PCT	.0	.0	.0	.1	1.4	19.1	52.1	27.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

TEMP F	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.0	.0	*	*	.1	.2	*	.0	*
85/89	.1	.1	.1	.4	.7	1.1	1.6	.4	.0	.5
80/84	1.4	.9	1.3	2.5	7.7	14.7	18.7	3.7	.0	3.9
75/79	1.2	.6	1.0	1.6	5.5	13.3	11.6	3.1	.0	2.1
70/74	.1	.1	.1	.2	.1	.4	.4	.1	.0	.1
65/69	.0	.0	.0	.0	.0	*	*	.0	.0	.0
TOTAL	2.6	1.7	2.6	4.9	14.0	29.6	32.7	7.3	.6	6.5

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	94	86	84	80	76	74	66	80.0	2166
06E09	88	84	82	79	76	74	70	79.3	1904
12E15	97	84	82	79	75	74	69	79.1	2257
18E21	94	89	86	81	76	73	70	81.3	2774
TOT	94	87	85	80	76	74	66	80.0	9045

TABLE 16

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	.6	20.4	54.8	24.0	85	1732
06E09	.0	.0	.6	10.2	57.2	31.9	87	1415
12E15	.0	.1	.2	10.6	55.6	33.6	87	1788
18E21	.0	.3	3.9	22.3	51.6	21.8	83	1990
TOT	0	8	164	1329	3584	1940	85	6925

PERIOD: (PRIMARY) 1951-1979
(OVER-ALL) 1869-1979

AREA 7011 PUNTA BUNICA
7.6N 63.0W

TABLE 17

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

AIR-SEA TMP DIF	65 64	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	n FOG	nO FOG
11/12									7		
9/10									15		
7/8									34		
6									24		
5									46		
4									93		
3									117		
2									271		
1									303		
0									376		
-1									799		
-2									1181		
-3									1093		
-4									697		
-5									651		
-6									340		
-7/-8									361		
-9/-10									115		
-11/-13									32		
-14/-16									1		
TOTAL											
PCT									100.0		

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

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

%

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1							
1-2							
3-4							
5-6							
7							
8-9							
10-11							
12							
13-16							
17-19							
20-22							
23-25							
26-32							
33-46							
47-58							
59-60							
61-70							
71-86							
87+							
TOT PCT	.6	1.3					

%E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1							
1-2							
3-4							
5-6							
7							
8-9							
10-11							
12							
13-16							
17-19							
20-22							
23-25							
26-32							
33-46							
47-58							
59-60							
61-70							
71-86							
87+							
TOT PCT	.5	1.4					

%E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1							
1-2							
3-4							
5-6							
7							
8-9							
10-11							
12							
13-16							
17-19							
20-22							
23-25							
26-32							
33-46							
47-58							
59-60							
61-70							
71-86							
87+							
TOT PCT	.5	1.4					

PERIOD: (OVER-ALL) 1963-1979

AUGUST

TABLE 18 (CONT)

AREA (11) PUNTA BORICA 7.6N 83.0W

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.5	.3	.0	.0	.0	2.1
1-2	.8	6.4	.7	.0	.0	.0	7.9
3-4	.3	2.7	1.1	.0	.0	.0	4.1
5-6	*	.8	.8	.1	.0	.0	1.7
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.8	11.3	2.7	.1	.0	.0	15.9

Se

1-3	4-10	11-21	22-33	34-47	48+	PCT
1.3	2.5	.1	.0	.0	.0	3.9
1.0	10.6	2.0	.0	.0	.0	13.7
.4	4.5	2.9	.0	.0	.0	7.7
.1	1.3	1.3	*	.0	.0	2.7
.0	.2	.5	*	.0	.0	.8
.0	.1	.1	.0	.0	.0	.2
.0	.0	.2	.0	.0	.0	.2
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
2.6	19.4	7.0	*	.0	.0	29.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	3.4	.1	.0	.0	.0	4.3
1-2	.7	11.1	2.3	.0	.0	.0	14.1
3-4	.2	4.9	1.1	.0	.0	.0	6.2
5-6	.0	.9	1.9	*	.1	.0	2.8
7	.0	*	.6	*	.0	.0	.9
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	20.3	6.2	.1	.1	.0	30.4

Nw

1-3	4-10	11-21	22-33	34-47	48+	PCT
.5	1.1	.0	.0	.0	.0	1.7
.2	2.0	.4	.0	.0	.0	3.4
*	1.1	.5	.0	.0	.0	1.6
.0	.2	.3	.0	.0	.0	.5
.0	.0	.0	.0	.0	.0	.0
.0	.0	.1	.0	.0	.0	.1
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.8	5.0	1.4	.0	.0	.0	7.2

TOTAL PCT

3.9
13.7
7.7
2.7
.8
.2
.2
.0
.0
.0
.0
.0
.0
.0
.0
.0
.0
.0
93.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.8	10.6	.3	*	.0	.0	22.7	
1-2	3.8	33.7	6.0	.0	.0	.0	43.5	
3-4	1.1	14.4	8.1	.0	.0	.0	23.6	
5-6	.2	3.2	4.3	.1	*	.0	8.0	
7	.0	.2	1.5	.1	.0	.0	1.8	
8-9	.0	.1	.2	.0	.0	.0	.3	
10-11	.0	.0	.1	.0	.0	.0	.1	
12	.0	.0	*	.0	.0	.0	*	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	2075
TOT PCT	16.8	62.3	20.6	.3	*	.0	100.0	

PERIOD: (OVER-ALL) 1949-1979

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.6	17.2	17.1	4.5	1.7	.4	1	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	2787	3
6-7	.2	2.4	9.1	8.4	2.8	1.0		.2	.1	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	1399	4
8-9	.1	.8	3.5	3.3	1.7	.5	<	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	582	5
10-11	.0	.5	1.2	.9	.7	.2		*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	216	5
12-13	.0	.0	.9	.6	.1	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100	5
>13	.0	.0	.0	.5	.2	.1	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	44	6
INDET	5.2	1.5	2.1	.0	.3	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	590	2
TOTAL	634	1280	1936	1211	436	135	49	20	14	2	0	1	0	0	0	0	0	0	0	5718	3
PCT	11.1	22.4	33.9	21.2	7.6	2.4	.9	.3	.2	*	.0	*	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1951-1979
(OVER-ALL) 1880-1979

AREA 0011 PUNTA BURICA
7.6N 83.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	11.[illegible]	6.3	3.5	.0	.0	.0	.0	21.1	10.8	4.9	0	.0	.0	.0	69.4
NE	15.6	8.9	.3	.0	.0	.0	.0	29.7	8.7	4.5	.0	.0	.0	1.0	62.0
E	10.6	4.8	2.7	.0	.0	.0	.0	17.6	6.2	5.6	.0	.0	.0	.0	71.2
SE	8.9	4.6	2.7	.0	.0	.0	.0	16.2	6.9	4.7	.1	.0	.0	.1	73.3
S	10.1	5.3	3.2	.0	.0	.0	.1	18.3	7.8	5.0	.4	.0	.5	.2	70.5
SW	11.0	5.1	3.5	.0	.0	.0	.0	19.1	8.1	4.2	.3	.0	*	.1	68.9
W	8.6	6.3	2.4	.0	.0	.0	.0	17.0	8.5	4.0	.4	.0	*	.1	70.6
NW	8.8	4.1	3.0	.0	.0	.0	.0	15.9	7.6	4.7	.2	.2	*	.1	72.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.6	2.2	1.4	.0	.0	.0	.0	7.2	5.5	6.6	.0	.0	.6	.0	80.7
TOT PCT	9.5	5.4	2.8	.0	.0	.0	*	17.4	8.0	4.2	.3	*	.1	.1	70.5
TOT OBS:	7808														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB 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	8.6	5.2	2.2	.0	.0	.0	.0	15.6	6.5	4.2	.2	.0	.2	.3	73.5
06009	7.9	4.4	3.8	.0	.0	.0	.0	15.9	7.9	9.4	.1	.0	.1	.1	67.7
12015	10.8	7.1	3.5	.0	.0	.0	.0	21.2	10.1	4.0	.3	.1	.1	.1	65.5
18021	10.3	4.8	2.1	.0	.0	.0	*	16.9	7.5	.9	.6	.0	.1	.1	74.3
TOT PCT	9.5	5.4	2.8	.0	.0	.0	*	17.4	8.0	4.3	.3	*	.1	.1	70.5
TOT OBS:	7967														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED A) 6Y HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	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	1.5	.3	*	.0	.0		2.3	6.9	.6	2.2	2.6	.2	3.8	2.7	2.6	1.5
NE	.2	.8	.1	*	.0	.0		1.2	7.1	.8	.0	1.8	.4	1.6	.7	1.0	.9
E	.5	1.7	.3	*	.0	.0		2.5	6.7	1.6	1.8	2.5	.4	3.3	2.9	3.1	1.7
SE	.6	3.5	.6	*	.0	.0		4.7	7.2	5.1	3.9	4.9	2.6	3.8	3.5	5.5	3.8
S	1.4	8.3	2.1	.1	.0	.0		11.9	7.8	12.9	16.4	11.4	12.1	9.0	14.5	12.7	16.2
SW	2.0	19.3	8.5	.1	.0	.0		29.9	9.0	34.7	26.4	25.9	32.9	26.0	28.7	31.3	36.4
W	2.3	21.9	10.6	.2	*	.0		35.1	9.3	36.6	37.6	36.5	38.5	36.3	31.7	32.3	28.9
NW	.6	5.1	1.6	*	.0	.0		7.4	8.4	4.2	7.0	7.4	7.6	11.1	11.3	6.8	6.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.0							5.0	.0	3.6	4.9	6.9	5.3	5.1	3.9	4.8	4.5
TOT OBS	1209	5712	2229	50	1	0	9201		8.2	2042	185	1743	262	2033	205	2440	291
TOT PCT	13.1	62.1	24.2	.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	1.3	1.0	*	.0	.0		2.3	6.9	.8	2.3	3.7	2.5
NE	.6	.5	*	.0	.0		1.2	7.1	.8	1.6	1.5	1.0
E	1.5	1.0	*	.0	.0		2.5	6.7	1.6	2.2	3.3	2.9
SE	2.6	2.0	.1	*	.0		4.7	7.2	5.0	4.6	3.8	5.3
S	5.4	6.0	.5	.0	.0		11.9	7.8	13.1	11.5	9.5	13.1
SW	10.0	18.7	1.2	.0	.0		29.9	9.0	34.0	26.8	26.3	31.8
W	11.1	22.3	1.6	*	.0		35.1	9.3	36.6	36.8	35.6	31.9
NW	2.8	4.4	.3	.0	.0		7.4	8.4	4.5	7.5	11.1	6.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.0						5.0	.0	3.7	6.7	5.0	4.7
TOT OBS	3693	5154	347	7	0	9201		8.2	2227	2005	2238	2731
TOT PCT	40.1	56.0	3.8	.1	.0		100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1951-1979
(OVER-ALL) 1880-1979

AREA 7C11 PUNTA BURICA
7.6N 83.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00103	3.7	7.3	62.2	26.3	.5	*	.0	8.6	100.0	2227
06109	6.7	6.5	62.6	23.7	.4	.0	.0	8.1	100.0	2005
12115	5.0	8.5	62.2	23.6	.6	.0	.0	8.2	100.0	2238
18121	4.7	9.8	61.5	23.3	.7	.0	.0	8.1	100.0	2731
TOT	457	752	5712	2229	50	1	0	8.2		9201
PCT	5.0	8.2	62.1	24.2	.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	.1	.3	.9	1.1		6.6
NE	*	.2	.4	.7		6.9
E	.1	.2	[illegible]	.9		6.5
SE	.1	.5	[illegible]	1.6		6.5
S	.2	1.1	[illegible]	5.0		6.6
SW	.5	2.4	14.2	13.0		6.7
W	1.0	3.3	16.4	14.7		6.6
NW	.3	.7	3.7	2.7		6.5
VAR	.0	.0	.0	.0		.0
CALM	.4	.9	2.2	1.4		5.7
TOT OBS	166	610	2923	2583	6282	6.6
TOT PCT	2.6	9.7	46.5	41.1	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	.0	.2	.3	.6	.2	*	.1	.0	.0	1.0	
NE	*	*	.1	.2	.3	.2	*	*	.0	.0	.5	
E	.0	*	.1	.4	.5	.1	.1	.1	*	.0	.9	
SE	*	*	.3	1.2	.9	.2	.1	.0	*	.0	1.9	
S	.2	.1	.7	2.2	2.3	.7	.3	.1	*	.1	5.0	
SW	.5	.3	2.0	5.5	6.4	2.0	.7	.2	.1	.2	12.4	
W	.6	.5	2.1	6.4	6.8	2.5	.7	.2	.2	*	15.5	
NW	.1	.1	.3	1.3	1.3	.5	.2	.1	*	.0	3.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	*	.1	.5	.7	.4	*	*	*	*	2.9	
TOT OBS	95	64	386	1136	1247	425	136	42	22	17	2732	6282
TOT PCT	1.5	1.0	5.8	18.1	19.9	6.8	2.2	.7	.4	.3	43.5	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >5OYD	= OR >0
= OR >6500	.4	.5	.6	.6	.6	.6	.6	.6
= OR >5000	1.0	1.2	1.2	1.2	1.2	1.2	1.3	1.3
= OR >3500	2.6	3.2	3.3	3.3	3.3	3.3	3.4	3.4
= OR >2000	7.9	9.4	9.9	10.0	10.0	10.0	10.0	10.0
= OR >1000	23.4	28.3	29.6	29.8	29.9	29.9	30.0	30.0
= OR >600	35.6	45.3	47.2	47.6	47.9	47.9	47.9	48.0
= OR >300	38.5	50.3	52.6	53.3	53.6	53.7	53.8	53.8
= OR >150	38.7	51.1	53.7	54.3	54.6	54.7	54.8	54.8
= OR > 0	38.9	52.0	54.9	55.6	56.0	56.1	56.2	56.3
TOTAL	2483	3317	3502	3546	3573	3581	3587	3589

TOTAL NUMBER OF OBS: 6378 PCT FREQ NH <5/8: 43.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
.7	3.7	9.7	14.1	15.0	10.1	12.9	11.0	22.0 .9	6766

SEPTEMBER

PERIOD: (PRIMARY) 1951-1979
(OVER-ALL) 1880-1979

AREA CC11 PUNTA BURICA
7.6N 83.6W

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	*	*	*	.0	.1	*	.0	.0	*	.2	
	NO PCP	.0	*	*	*	*	*	*	.0	.0	.0	.1	
	TOT %	*	*	.1	*	*	.1	.1	.0	.0	*	.3	
1/2<1	PCP	.0	.0	.0	.0	*	.1	.1	*	.0	.0	.3	
	NO PCP	.0	.0	.0	*	*	.1	*	.0	.0	.0	.2	
	TOT %	.0	.0	.0	*	.1	.2	.1	*	.0	.0	.5	
1<2	PCP	*	*	*	*	.1	.2	.3	*	.0	.0	.8	
	NO PCP	*	*	.0	*	*	.1	.1	*	.0	.0	.2	
	TOT %	*	*	*	*	.1	.3	.3	*	.0	.0	1.0	
2<5	PCP	.1	.1	.1	.1	.3	.8	.8	.2	.0	*	2.4	
	NO PCP	.1	*	.1	*	.1	.4	.5	.1	.0	*	1.3	
	TOT %	.2	.1	.2	.2	.4	1.2	1.2	.2	.0	.1	3.7	
5<10	PCP	.3	.2	.1	.3	.9	2.4	2.6	.6	.0	.1	7.5	
	NO PCP	.3	.1	.3	.6	1.3	3.4	3.8	.7	.0	.3	10.7	
	TOT %	.5	.3	.4	.9	2.2	5.8	6.4	1.3	.0	.4	18.2	
10+	PCP	.1	*	.1	.3	.8	2.1	2.1	.4	.0	.2	6.2	
	NO PCP	1.6	.8	1.7	3.2	7.9	20.5	25.1	5.4	.0	4.0	70.2	
	TOT %	1.7	.8	1.8	3.5	8.7	22.6	27.2	5.5	.0	4.2	76.3	
	TOT OBS												7771
	TOT PCT	2.4	1.3	2.5	4.6	11.6	30.2	35.4	7.4	.0	4.7	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	*	*	.0	.0	*	*	
	4-10	.0	*	.1	*	*	.1	.1	.0	.0		.2	
	11-21	*	*	.0	.0	*	*	*	*	.0		.1	
	22+	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	TOT %	*	*	.1	*	.1	.1	.1	*	.0	*	.4	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	*	*	.1	.1	.1	*	.0		.4	
	11-21	.0	.0	.0	.0	*	.1	.1	*	.0		.2	
	22+	.0	.0	.0	.0	.0	*	*	.0	.0		*	
	TOT %	.0	.0	*	*	.1	.2	.2	.1	.0	.0	.6	
1<2	0-3	.0	.0	.0	*	*	*	*	*	.0	.0	.1	
	4-10	*	*	*	*	.1	.2	.2	*	.0		.6	
	11-21	*	*	*	*	*	.1	.2	.0	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	*	*	.2	.4	.4	*	.0	.0	1.1	
2<5	0-3	*	.0	*	.1*	.1	*	*	*	.0	*	.3	
	4-10	.1	.1	.1	.1	.3	.9	.7	.2	.0		2.3	
	11-21	*	*	.1	*	.1	.5	.6	.1	.0		1.5	
	22+	.0	.0	*	.0	*	*	*	*	.0		.1	
	TOT %	.2	.1	.2	.2	.5	1.4	1.4	.3	.0	*	4.2	
5<10	0-3	.1	*	.1	.1	.1	.2	.3	.1	.0	.4	1.3	
	4-10	.3	.2	.3	.6	1.4	3.1	3.3	.8	.0		10.0	
	11-21	.1	.1	.1	.2	.6	2.3	2.5	.3	.0		6.2	
	22+	*	.0	.0	.0	*	*	.1	*	.0		.2	
	TOT %	.5	.3	.4	.9	2.1	5.7	6.1	1.2	.0	.4	17.8	
10+	0-3	.4	.2	.4	.5	1.2	1.8	2.0	.6	.0	4.5	11.5	
	4-10	1.0	.6	1.2	2.7	6.1	14.9	17.3	4.1	.0		47.9	
	11-21	.2	*	.2	.3	1.3	5.6	7.5	1.2	.0		16.2	
	22+	.0	*	.0	*	*	*	.1	*	.0		.3	
	TOT %	1.6	.8	1.8	3.5	8.7	22.3	26.8	5.9	.0	4.5	75.6	
	TOT OBS												8241
	TOT PCT	2.4	1.3	2.5	4.7	11.7	30.1	35.6	7.5	.0	4.9	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1951-1975
(OVER-ALL) 1880-1979

AREA 0611 PUNTA BORICA
7.6N 83.3W

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	1.3	.6	5.6	18.2	20.3	7.0	2.0	.5	.4	.5	56.2	47.3	1711
06E09	1.9	.6	5.6	18.6	21.1	5.3	2.5	.2	.2	.3	58.5	43.5	1292
12E15	1.5	1.8	6.4	16.1	16.0	6.7	1.4	.6	.1	.1	50.9	41.1	1675
18E21	1.3	.7	5.3	16.0	19.0	7.0	2.6	1.0	.6	.3	53.8	46.2	1862
TOT	97	64	376	1152	1276	433	136	44	22	19	3621	2439	6540
PCT	1.5	1.0	5.7	17.6	19.5	6.6	2.1	.7	.3	.3	55.4	46.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.2	.3	.6	3.3	18.2	77.3	2050
06E09	.4	.3	1.1	4.0	18.4	75.8	1846
12E15	.5	.7	1.2	4.5	19.7	73.5	2084
18E21	.5	.9	1.5	4.9	15.5	76.8	2427
TOT	33	46	94	354	1496	6384	8407
PCT	.4	.6	1.1	4.2	17.8	75.9	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 <500FT	<600 <1	<1000 <3	1000+ ANDS+	NH <5/8 AND 5+	TOTAL OBS
00E03	1.2	7.8	27.7	30.0	42.3	1669
06E09	2.1	8.9	31.3	24.1	41.5	1259
12E15	1.5	10.0	34.0	25.9	44.1	1631
18E21	1.4	8.0	26.1	29.1	44.7	1819
TOT	96	551	1809	1867	2762	6378
PCT	1.5	8.6	28.4	26.3	43.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.1	.1	.1	*	.0	16	.2
85/89	.0	.0	.0	*	.8	3.0	.6	.3	335	4.6
80/84	.0	.0	.0	.1	.9	12.4	27.4	5.9	3251	46.7
75/79	.0	.0	.0	.0	*	1.9	21.9	22.8	3245	46.6
70/74	.0	.0	.0	.0	.0	.0	.1	1.6	117	1.7
65/69	.0	.0	.0	.0	.0	.0	*	.0	1	*
TOTAL	0	0	0	9	127	1211	3486	2132	6565	100.0
PCT	.0	.0	.0	.1	1.8	17.4	50.1	30.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	*	*	.0	*	*	*	.1	.1	.0	.0
	.1	*	.2	.3	.5	1.2	1.7	.4	.0	.4
	.9	.5	1.2	2.4	5.3	13.2	17.1	3.4	.6	2.8
	1.4	.6	1.1	1.8	5.4	15.2	16.4	3.2	.3	1.5
	.1	.1	.1	.2	.2	.4	.5	.1	.0	.1
	.0	.0	.0	*	.0	.0	.0	.0	.0	.0
	2.4	1.1	2.5	4.7	11.4	30.1	35.6	7.2	.9	4.8

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	89	86	83	80	76	73	68	79.6	2254
06E09	86	84	82	79	76	74	66	79.0	2041
12E15	89	85	82	79	75	73	68	78.9	2272
18E21	95	89	86	81	75	74	69	81.0	2740
TOT	95	87	84	80	75	73	66	79.7	9307

TABLE 16

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	.9	16.9	56.7	25.4	85	1765
06E09	.0	.0	.5	9.5	56.4	33.5	87	1538
12E15	.0	.1	.7	10.6	50.1	39.1	87	1797
18E21	.0	.2	4.5	30.1	39.7	25.4	83	2008
TOT	0	9	126	1231	3578	2182	86	7128

SEPTEMBER

PERIOD: (PRIMARY) 1951-1976
(OVER-ALL) 1880-1979

AREA 0011 PUNTA BURICA
7.6N 83.0W

TABLE 17

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

AIR-SEA	65	69	73	77	81	85	89	93+	TOT	%	NO
IMP DIF	68	72	76	80	84	88	92			FOG	FOG
11/13	.0	.0	.0	*	*	*	.0	.0	4	.0	.1
9/10	.0	.0	.0	*	*	.1	.1	*	19	*	.3
7/8	.0	.0	.0	.1	*	.2	.1	.0	35	.0	.5
6	.0	.0	.0	*	.1	.2	.1	.0	32	.0	.4
5	.0	.0	.0	.1	.2	.5	.1	.0	58	.0	.8
4	.0	.0	.0	.1	.5	.6	*	.0	93	.0	1.3
3	.0	.0	*	.2	.7	.8	*	.0	123	.0	1.7
2	.0	.0	*	.5	2.3	.8	*	.0	259	.0	3.6
1	.0	.0	.1	.6	2.9	.7	.0	.0	307	*	4.3
0	.0	.0	.1	3.9	6.3	.3	.0	.0	726	.1	10.1
-1	.0	.0	.2	5.6	5.1	.3	.0	.0	798	.1	11.1
-2	.0	.0	.3	10.4	6.1	.1	.0	.0	1209	*	16.9
-3	.0	.0	.4	10.4	3.1	*	.0	.0	998	*	13.9
-4	.0	.0	1.5	9.6	2.1	.0	.0	.0	941	*	13.1
-5	.0	.0	1.5	6.3	.8	.0	.0	.0	612	.0	8.6
-6	.1	*	1.4	3.6	.2	.0	.0	.0	376	.0	5.3
-7/-8	.0	*	2.5	2.8	.1	.0	.0	.0	391	.0	5.5
-9/-10	.0	.1	1.1	.5	.1	.0	.0	.0	128	*	1.8
-11/-13	.0	.1	.3	.2	.0	.0	.0	.0	38	.0	.5
-14/-16	*	.0	*	*	.0	.0	.0	.0	4	.0	.1
TOTAL	1		674		2190		30			22	7129
		15		3907		333		1	7151		
PCT	*	.2	9.4	54.6	30.6	4.7	.4	*	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

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

N

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

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.5	.0	.0	.0	.0	.3
1-2	.1	.5	*	.0	.0	.0	.6
3-4	.0	.1	*	*	.0	.0	.2
5-6	.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	.2	1.0	.2	.0	.0	.0	1.4

E

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

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	.0	.0	.0	.0	.7
1-2	.1	2.0	.2	.0	.0	.0	2.3
3-4	*	.3	.2	.0	.0	.0	.6
5-6	.0	.1	.1	.0	.0	.0	.2
7	.0	*	.0	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.0	.5	.0	.0	.0	3.8

PERIOD: (OVER-ALL) 1963-1979

SEPTEMBER

TABLE 18 (CONT)

AREA 011 PUNTA BURICA 7.6N 83.0W

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.0	.1	.1	.0	.0	1.7	.9	3.2	.1	.0	.0	.0	4.1
1-2	.6	3.5	.6	.0	.0	.0	4.7	.8	10.1	2.4	.0	.0	.0	13.3
3-4	.0	2.4	1.1	.0	.0	.0	3.5	.2	5.5	4.5	*	.0	.0	10.2
5-6	.0	.3	.3	*	.0	.0	.6	.0	1.5	2.6	.2	.0	.0	4.2
7	.0	*	.2	*	.0	.0	.3	.0	.4	.4	*	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	7.2	2.2	.1	.0	.0	10.7	1.9	20.2	9.9	.2	.0	.0	32.2

	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	.8	3.4	.1	.0	.0	.0	4.4	.2	.6	.1	.0	.0	.0	.9	
1-2	1.0	12.5	2.2	.0	.0	.0	15.7	.2	2.3	.5	.0	.0	.0	3.0	
3-4	*	6.2	5.8	.2	.0	.0	12.2	*	1.2	.5	.0	.0	.0	2.1	
5-6	*	1.3	3.0	.1	.0	.0	4.5	.0	.2	.2	.0	.0	.0	.5	
7	.0	.1	1.0	*	.0	.0	1.2	.0	*	.2	.0	.0	.0	.2	
8-9	.0	*	*	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	*	.0	.0	.0	*	.0	.0	*	.0	.0	.0	*	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.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	23.6	12.2	.4	.0	.0	38.1	.4	4.4	1.9	.0	.0	.0	6.7	96.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.7	9.7	.4	.0	.0	.0	17.9	
1-2	3.4	31.9	5.9	.0	.0	.0	41.2	
3-4	.4	15.5	12.4	.2	.0	.0	28.6	
5-6	*	3.3	6.3	.3	.0	.0	10.0	
7	.0	.2	1.7	.1	.0	.0	2.2	
8-9	.0	*	*	.0	.0	.0	.1	
10-11	.0	.0	*	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								2126
TOT PCT	11.7	60.8	26.9	.7	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1979

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.1	16.6	18.5	8.1	2.2	.6	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2693	3
6-7	.2	2.8	9.8	8.2	3.3	.8	.3	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1971	4
8-9	*	.7	2.6	3.0	2.5	.6	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	572	5
10-11	.0	.3	.9	.7	.7	.3	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	172	5
12-13	.0	.0	.6	.3	.4	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	46	5
>13	.0	.0	.0	.3	.2	.1	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42	7
INDET	3.8	1.4	2.3	1.2	.5	.2	.1	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	548	7
TOTAL	474	1231	2009	1259	566	150	69	16	8	1	1	0	0	0	0	0	0	0	0	5784	4
PCT	8.2	21.3	34.7	21.8	9.8	2.6	1.2	.3	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1951-1979
(OVER-ALL) 1895-1979

AREA 0611 PUNTA BURICA
7.6N 83.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
N	14.3	5.4	2.2	.0	.0	.0	.0	21.5	12.1	3.1	2.2	.0	.0	.0	.0	61.2
NE	6.2	5.2	9.3	.0	.0	.0	.0	21.6	7.7	3.6	.5	.0	.0	.0	.0	66.3
E	12.2	5.9	2.9	.0	.0	.0	.0	21.0	6.5	1.4	.0	.0	.0	.0	.0	71.1
SE	10.5	2.9	4.3	.0	.0	.0	.0	17.1	8.3	2.4	.0	.0	.0	.0	.0	72.6
S	11.3	6.2	4.6	.0	.0	.0	.0	21.9	11.1	1.9	.3	.0	.1	.0	.0	64.9
SW	13.2	6.6	4.6	.0	.0	.0	*	23.9	10.0	1.5	.1	.0	.1	.1	.1	64.4
W	10.8	6.4	3.1	.3	.3	.3	.3	19.5	9.5	2.2	.2	.1	.2	.1	.1	69.5
NW	10.4	4.5	3.7	.0	.0	.0	.0	18.3	9.2	3.2	.0	.0	.0	.0	.0	69.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.5	2.4	.9	.3	.3	.0	.0	11.6	6.6	2.8	.0	.0	.0	.0	.0	76.8
TOT PCT	11.4	6.1	3.9	.0	.0	.0	*	20.9	9.3	2.6	.2	*	.1	.1	.1	67.5
TOT OBS:	7499															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
00&03	9.5	5.6	3.5	.0	.0	.0	.0	18.1	6.8	2.8	.2	.1	.1	.2	69.9
06&09	10.5	4.7	4.6	.0	.0	.0	.0	21.3	8.8	4.3	.3	.0	.2	.0	65.6
12&15	14.0	6.5	4.6	.0	.0	.0	.1	24.6	10.6	1.6	.1	.1	.2	.1	63.2
18&21	11.4	5.6	3.1	.0	.0	.0	.0	20.0	8.5	.5	.2	.0	*	*	70.8
TOT PCT	11.4	6.1	3.9	.0	.0	.0	*	21.0	9.2	2.1	.2	*	.1	.1	67.6
TOT OBS:	7661														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.3	1.0	.2	.0	.0	.0		1.5	6.9	.4	3.7	1.2	.7	2.2	2.5	1.7	1.5
NE	.2	.4	.1	*	*	.0		1.2	6.7	.6	2.9	1.6	1.5	1.6	[illegible]	*	.7
E	.3	1.1	.2	*	.0	.0		1.6	7.3	1.1	.0	2.4	2.5	2.1	1.9	1.4	.4
SE	.4	1.9	.4	*	.0	.0		2.6	7.2	2.9	3.5	3.2	4.0	1.5	3.9	2.7	.4
S	1.0	6.8	2.6	.1	.0	.0		10.5	8.7	11.8	12.5	12.8	5.4	6.4	7.2	10.3	9.4
SW	1.6	18.8	13.1	.4	.0	.0		33.9	10.3	38.5	31.0	30.7	28.5	31.2	33.6	34.6	41.5
W	2.0	22.3	13.4	.5	.0	.0		38.2	10.0	37.5	38.3	35.8	41.6	40.6	34.4	38.7	35.9
NW	.4	4.6	2.2	*	.0	.0		7.3	9.1	4.6	7.5	7.7	11.0	9.2	10.0	6.9	7.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.0							3.0	.0	2.2	.8	4.4	4.7	3.0	3.6	2.8	2.7
TOT OBS	403	4972	2783	88	1	0	8447		9.4	1925	130	1655	212	1959	197	2306	263
TOT PCT	9.3	57.5	32.2	1.0	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.9	.7	*	.0	.0		1.5	6.9	.9	1.2	2.2	1.7
NE	.6	.4	*	*	.0		1.2	6.7	.8	1.6	1.6	.9
E	.9	.7	*	*	.0		1.6	7.3	1.0	2.4	2.0	1.3
SE	1.4	1.2	.1	.0	.0		2.6	7.2	3.0	3.3	2.0	2.5
S	4.0	5.9	.6	*	.0		10.5	8.7	11.8	12.6	8.3	10.2
SW	9.1	22.3	3.5	*	.0		33.9	10.3	38.0	30.5	31.5	35.3
W	9.3	25.7	3.2	*	.0		38.2	10.0	37.6	36.5	40.0	38.4
NW	4	4.5	.4	*	.0		7.3	9.1	4.8	8.1	9.3	6.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.0						3.0	.0	2.1	4.4	3.0	2.8
TOT OBS	2651	5316	671	9	0	8647		9.4	2055	1867	2156	2569
TOT PCT	30.7	61.5	7.8	.1	.0		100.0		100.0	100.0	100.0	100.0

OCTOBER

PERIOD: (PRIMARY) 1951-1979
(OVER-ALL) 1895-1979

AREA 7011 PUNTA BUNICA
7.6N 53.4W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00103	2.1	5.5	57.0	34.5	.8	*	.0	9.6	100.0	2055
06109	4.4	5.8	58.9	29.9	1.4	.0	.0	9.2	100.0	1867
12115	3.0	7.3	56.5	32.2	.9	.0	.0	9.4	100.0	2156
18121	2.8	6.2	58.1	32.0	.9	.0	.0	9.4	100.0	2569
TOT	262	541	4972	2783	68	1	1	9.4		8647
PCT	3.0	6.3	57.5	32.2	1.0	*	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	*	.1	.6	.7		6.6
NE	.1	.2	.5	.4		6.0
E	*	.2	.7	.2		6.4
SE	.1	.3	1.4	.9		6.4
S	.4	1.0	4.1	5.1		6.7
SW	.6	2.4	14.2	16.3		6.8
W	1.1	4.0	18.3	15.4		6.6
NW	.2	1.0	3.3	2.7		6.4
VAR	.0	.0	.7	.0		.0
CALM	.2	.6	1.3	.9		5.9
TOT OBS	165	598	2693	2617	6073	6.6
TOT PCT	2.7	9.8	44.3	43.1	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	WW <5/8 ANY HGT	TOTAL OBS
N	.1	*	.1	.2	.3	.1	*	*	.0	.0	.6	
NE	.0	*	.1	.1	.2	.1	.1	*	.0	.0	.7	
E	*	.0	.1	.3	.4	.1	.1	.1	.0	.0	.7	
SE	*	*	.1	.4	.7	.3	.1	.1	.0	.0	1.0	
S	.3	.1	.7	2.2	2.4	.7	.3	*	.0	*	3.8	
SW	1.0	.6	2.3	7.5	6.8	2.4	.7	.2	.2	.1	11.8	
W	1.0	.5	2.1	7.4	7.8	2.9	1.0	.3	.1	.1	15.5	
NW	.1	.1	.4	1.3	1.3	.4	.2	*	*	.0	3.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	*	.1	.4	.5	.1	.1	.0	.0	.0	1.6	
TOT OBS	161	89	356	1268	1232	428	153	39	18	13	2377	6073
TOT PCT	2.7	1.5	5.9	19.9	20.3	7.0	2.5	.6	.2	.2	39.1	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >5040	= OR >0
= OR >6500	.3	.4	.5	.5	.5	.5	.5	.5
= OR >5000	.8	1.0	1.1	1.1	1.1	1.1	1.1	1.1
= OR >3500	2.6	3.3	3.5	3.6	3.6	3.6	3.6	3.6
= OR >2000	7.9	9.9	10.5	10.5	10.6	10.6	10.6	10.6
= OR >1000	22.9	29.4	30.7	30.9	31.0	31.0	31.0	31.0
= OR >600	35.1	47.6	50.2	50.4	50.7	50.8	50.8	50.8
= OR >300	37.4	52.6	55.8	56.4	56.5	56.7	56.7	56.7
= OR >150	38.4	53.9	57.3	57.8	58.0	58.2	58.2	58.2
= OR > 0	39.0	55.4	59.6	60.3	60.5	60.7	60.8	60.8
TOTAL	2412	3425	3684	3728	3741	3752	3755	3756

TOTAL NUMBER OF OBS: 6176

PCT FREQ WW <5/8: 39.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	1.8	TOTAL OBS 6595
.9	3.1	9.4	12.0	13.6	11.2	12.6	11.6	23.9		

OCTOBER

PERIOD: (PRIMARY) 1951-1979
(OVER-ALL) 1895-1979

AREA 0011 PUNTA BURICA
7.6N 83.0W

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	*	.0	*	*	.1	.1	.0	.0	.2	
	NO PCP	*	.0	*	.0	*	.1	*	.3	.0	.0	.2	
	TOT %	*	.0	*	.0	.1	.1	.1	.1	.0	.0	.4	
1/2<1	PCP	.0	*	*	.0	*	.1	.1	*	.3	.0	.3	
	NO PCP	.0	.0	.0	.0	*	*	*	.0	.0	.0	.1	
	TOT %	.0	*	*	.0	.1	.1	.1	*	.3	.0	.3	
1<2	PCP	*	*	*	.0	.1	.4	.3	.1	.0	.0	.9	
	NO PCP	*	.0	.0	.0	*	.1	.1	*	.0	.0	.3	
	TOT %	.1	*	*	.0	.2	.5	.4	.1	.0	.0	1.2	
2<5	PCP	.1	*	.1	.1	.4	1.3	1.2	.3	.0	*	3.4	
	NO PCP	*	*	.0	.1	.3	.6	.6	.1	.0	*	1.8	
	TOT %	.1	*	.1	.2	.7	1.9	1.8	.4	.0	*	5.1	
5<10	PCP	.1	.1	.1	.2	1.0	4.1	3.4	.6	.0	.1	9.8	
	NO PCP	.2	.2	.2	.3	1.4	4.7	4.5	.7	.0	.2	12.4	
	TOT %	.3	.3	.3	.5	2.4	8.8	7.9	1.3	.0	.4	22.3	
10+	PCP	.1	.1	.1	.2	.7	2.2	2.4	.3	.0	.2	6.4	
	NO PCP	.9	.7	1.1	1.8	6.6	20.1	25.8	5.0	.0	2.2	64.3	
	TOT %	1.0	.8	1.2	2.0	7.3	22.3	28.2	5.3	.0	2.4	70.8	
	TOT OBS												7472
	TOT PCT	1.5	1.2	1.6	2.7	10.7	33.7	33.6	7.1	.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	*	
	4-10	*	.0	*	.0	*	*	.1	.1	.0		.3	
	11-21	.0	.0	*	.0	*	*	*	*	.0		.1	
	22+	.0	.0	.0	.0	.0	*	*	.0	.0		*	
	TOT %	*	.0	*	.0	.1	.1	.1	.1	.0	.0	.5	
1/2<1	0-3	.0	.0	*	*	.0	*	*	.0	.0	.0	*	
	4-10	.0	*	.0	.0	*	*	.1	*	.0		.2	
	11-21	.0	*	*	.0	*	.1	*	*	.0		.2	
	22+	.0	.0	.0	.0	*	*	.0	.0	.0		*	
	TOT %	.0	*	*	*	.1	.1	.1	*	.0	.0	.4	
1<2	0-3	.0	.0	.0	.0	.0	*	*	.0	.0	*	.1	
	4-10	*	*	*	.0	.1	.3	.2	.1	.0		.6	
	11-21	*	.0	.0	.0	*	.2	.2	*	.0		.5	
	22+	.0	.0	.0	.0	*	*	.0	.0	.0		*	
	TOT %	*	*	*	.0	.1	.6	.4	.1	.0	*	1.3	
2<5	0-3	*	*	.0	*	*	*	*	*	.0	.1	.2	
	4-10	.1	*	*	.1	.4	.9	1.0	.2	.0		2.7	
	11-21	*	*	*	*	.3	1.1	1.0	.2	.0		2.6	
	22+	.0	.0	.0	.0	.0	*	.1	.0	.0		.1	
	TOT %	.1	*	.1	.2	.7	2.0	2.0	.4	.0	.1	5.6	
5<10	0-3	.1	.1	*	.1	.1	.2	.2	*	.0	.4	1.1	
	4-10	.2	.3	.2	.3	1.6	4.0	3.9	.8	.0		11.2	
	11-21	.1	*	*	.1	.7	4.4	3.5	.5	.0		9.3	
	22+	.0	.0	*	*	*	.1	.2	*	.0		.4	
	TOT %	.3	.3	.3	.5	2.4	8.7	7.8	1.3	.0	.4	22.0	
10+	0-3	.2	.1	.2	.3	.9	1.2	1.7	.4	.0	2.5	7.7	
	4-10	.7	.6	.8	1.5	4.7	13.2	17.2	3.4	.0		42.1	
	11-21	.1	*	.2	.2	1.6	7.4	8.8	1.5	.0		19.9	
	22+	.0	*	.0	.0	*	.2	.2	*	.0		.4	
	TOT %	1.0	.6	1.2	2.0	7.2	22.0	27.9	5.4	.0	2.5	70.2	
	TOT OBS												7857
	TOT PCT	1.5	1.2	1.7	2.7	10.6	33.6	38.5	7.3	.0	2.9	100.0	

OCTOBER

PERIOD: (PRIMARY) 1951-1979
(OVER-ALL) 1895-1979

TABLE 10

AREA CODE PUNTA BUNICA
7.6N 83.0W

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	4/8 <5/8 ANY HGT	TOTAL OBS
00E03	2.0	1.6	5.4	18.5	20.7	7.2	2.6	.9	.5	.2	59.6	40.2	1581
06E09	3.6	.9	4.5	22.0	20.6	6.0	1.5	.4	.2	.2	60.0	40.0	1237
12E15	2.6	1.9	7.5	21.0	18.2	6.5	2.2	.7	.2	.2	60.4	39.2	1673
18E21	2.3	1.4	5.2	17.1	20.5	7.4	2.9	.4	.3	.2	57.6	42.4	1853
TOT	162	93	364	1231	1266	434	154	36	19	13	3774	2570	6344
PCT	2.6	1.5	5.7	19.4	20.0	6.8	2.4	.6	.3	.2	59.5	40.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.2	.3	1.0	4.1	20.8	73.7	1910
06E09	.5	.2	1.0	5.1	24.3	68.9	1713
12E15	.8	.6	1.4	6.5	22.0	68.6	2026
18E21	.4	.5	1.8	6.7	20.2	69.7	2372
TOT	38	34	108	457	1754	5632	6023
PCT	.5	.4	1.3	5.7	21.9	70.2	100.0

TABLE 12

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

HOUR (GMT)	<150 <5DYD	<600 <1	<1000 <5	1000+ AND5+	NM <5/8 AND 5+	TOTAL OBS
00E03	2.0	9.6	29.4	31.9	28.6	1545
06E09	3.8	9.5	33.8	28.4	37.6	1198
12E15	2.6	12.2	35.4	26.9	37.6	1634
18E21	2.4	9.4	26.7	30.1	40.2	1802
TOT	162	632	1974	1815	2390	6179
PCT	2.6	10.2	31.9	29.4	38.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.1	*	*	.0	12	.2
85/89	.0	.0	.0	.1	.5	1.9	.4	.1	200	3.0
80/84	.0	.0	.0	*	.5	9.2	22.3	5.0	2474	36.9
75/79	.0	.0	.0	.0	.2	2.7	25.0	29.1	3820	57.0
70/74	.0	.0	.0	.0	.0	*	.2	2.6	189	2.8
65/69	.0	.0	.0	.0	.0	.1	.1	*	10	.1
TOTAL	0	0	0	6	84	931	3220	2464	6705	100.0
PCT	.0	.0	.0	.1	1.3	13.9	48.0	36.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	*	*	.1	*	.0	.0
	.1	*	*	*	.3	.7	1.3	.3	.0	.1
	.5	.4	.6	1.2	3.7	11.1	15.1	2.8	.0	1.6
	.8	.5	.8	1.0	6.4	21.2	21.2	3.8	.0	1.3
	.1	.1	.1	.2	.3	.9	.8	.3	.0	*
	.0	.0	*	.1	*	*	.0	.0	.0	.0
	1.5	1.1	1.5	2.5	10.7	33.9	38.5	7.2	.0	3.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	88	84	82	79	75	74	66	79.0	2069
06E09	87	83	82	78	75	73	66	78.3	1887
12E15	88	83	81	78	75	73	66	78.3	2180
18E21	93	88	86	80	75	73	66	80.4	2601
TOT	93	86	84	79	75	73	66	79.1	8737

TABLE 16

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	11.3	53.9	33.9	87	1680
06E09	.0	.0	.2	7.8	47.4	44.6	88	1436
12E15	.0	.1	.3	7.0	48.2	44.4	88	1767
18E21	.0	.2	3.2	27.4	43.3	25.5	84	1950
TOT	0	6	66	982	3291	2508	87	6853

PERIOD: (PRIMARY) 1951-1979
(OVER-ALL) 1695-1979

TABLE 17

AREA 0011 PUNTA BURICA
7.6N 83.0W

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

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	# FOG	%O FOG
14/16	.0	.0	.0	.0	.0	*	.0	1	.0	*
11/13	.0	.0	.0	.0	*	.0	*	2	.0	*
9/10	*	.0	.0	*	.1	.1	.1	22	*	.1
7/8	.0	.0	.0	.1	.1	.2	.1	36	.0	.1
6	.0	.0	*	*	.1	.2	*	34	.0	.1
5	.0	.0	.0	.1	.2	.2	.1	64	.0	.1
4	.0	.0	*	*	.2	.4	.5	90	.0	1.1
3	.0	.0	*	*	.3	.4	.6	110	.0	1.6
2	*	.0	*	*	.6	2.1	1.6	229	.0	3.3
1	*	.0	*	1.1	1.6	2.4	1.3	309	.0	4.5
0	.1	.0	.2	5.6	4.7	3.2	.8	726	*	10.5
-1/-2	*	.0	.3	7.9	4.1	1.1	.0	868	.1	12.4
-3/-4	.0	.0	.9	12.2	3.7	.4	.0	1173	*	16.9
-5/-6	.0	.0	1.5	10.3	1.7	.0	.0	936	*	13.4
-7/-8	.0	.0	2.1	9.6	1.1	.0	.0	891	.0	12.8
-9/-10	.0	*	2.2	6.1	.6	.0	.0	620	*	8.9
-11/-13	.0	*	2.1	3.2	.2	.0	.0	382	.0	5.5
-14/-16	*	*	2.4	2.2	.1	.0	.0	322	*	4.6
-17/-19	.0	.2	.7	.3	*	.0	.0	87	.0	1.3
-20/-22	*	.1	.3	*	.0	.0	.0	26	.0	.4
TOTAL	31	904		1575		296			12	6928
		21		4196		215		6948		
PCT	.2	.3	13.0	60.3	22.7	3.2	.3	100.0	.2	99.8

PERIOD: (OVER-ALL) 1953-1979

TABLE 18

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

N

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

SE

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

E

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

SE

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

OCTOBER

PERIOD: (OVER-ALL) 1963-1979 AREA 0'11 PUNTA PUPICA
7.6N 83.3W

TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.0	.0	.0	.0	.0	1.5
1-2	.2	3.2	.7	.0	.0	.0	4.0
3-4	*	1.6	1.0	*	.0	.0	2.7
5-6	.0	.7	.9	.0	.0	.0	1.6
7	.0	*	.2	.1	.0	.0	.3
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	*	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	6.6	2.8	.1	.0	.0	10.2

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.9	.2	.0	.0	.0	2.4
1-2	.7	10.1	2.4	.0	.0	.0	13.1
3-4	.2	5.8	5.6	.1	.0	.0	11.6
5-6	*	1.2	4.0	.1	.0	.0	5.4
7	.0	.2	1.1	.2	.0	.0	1.4
8-9	.0	.0	*	.1	.0	.0	.1
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	19.1	13.4	.5	.0	.0	34.3

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	3.4	.2	.0	.0	.0	4.2
1-2	.5	11.8	2.9	.0	.0	.0	15.1
3-4	.1	6.9	5.7	*	.0	.0	12.8
5-6	.1	1.2	3.9	*	.0	.0	5.3
7	.0	.2	.9	.2	.0	.0	1.3
8-9	.0	.0	.3	.1	.0	.0	.4
10-11	.0	.0	.0	*	.0	.0	*
12	.0	.0	*	.0	.0	.0	.1
13-16	.0	.0	*	*	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.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	23.6	14.1	.4	.0	.0	39.5

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	.6	.1	.0	.0	.0	1.0	
1-2	.1	1.4	.7	.0	.0	.0	2.2	
3-4	.0	1.5	1.0	.0	.0	.0	2.6	
5-6	.0	.2	.9	.0	.0	.0	1.1	
7	.0	.0	.1	.0	.0	.0	.1	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	3.8	2.1	*	.0	.0	6.5	97.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.9	7.9	.5	.1	.0	.0	14.2	
1-2	1.8	28.8	6.9	.0	.0	.0	37.5	
3-4	.5	16.2	13.8	.1	.0	.0	30.6	
5-6	.1	3.5	9.8	.2	.0	.0	13.6	
7	.0	.6	2.2	.4	.0	.0	3.1	
8-9	.0	.0	.4	.1	.0	.0	.5	
10-11	.0	.0	.0	.1	.0	.0	.1	
12	.0	.0	.1	.0	.0	.0	.1	
13-16	.0	.0	*	.0	.0	.0	*	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.2	57.0	33.6	1.0	.0	.0	100.0	2166

PERIOD: (OVER-ALL) 1949-1979

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	PEAK HGT
<6	3.6	29.4	20.1	9.3	3.3	.6	.3	.1	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0	2869	3
6-7	.1	3.8	9.1	10.3	3.7	1.2	.3	.1	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	1489	5
8-9	*	.7	2.1	2.6	2.0	.9	.2	.2	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	501	5
10-11	.0	.5	.8	1.0	.5	.2	.1	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	172	5
12-13	.0	.0	.5	.4	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	70	5
>13	.0	.0	.0	.3	.2	.1	.1	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	46	7
INDET	2.7	1.5	1.6	1.2	.4	.1	.0	*	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	420	2
TOTAL	356	1053	1907	1405	581	173	53	19	7	4	1	.0	.0	.0	.0	.0	.0	.0	.0	5561	*
PCT	6.4	18.9	34.3	25.3	10.4	3.1	1.0	.3	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1951-1976
(DEP-ALL) 1965-1979

AREA 0611 PUNTA BURICA
7.6N 83.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
WND DIR	RAIN	RAIN SNOW	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	8.5	4.7	3.8	.0	.0	.0	.0	15.3	7.5	.5	.0	.0	.0		.0	76.7
NE	14.2	5.3	8.0	.0	.0	.0	.0	24.3	3.5	1.3	1.1	.0	2.1		.0	67.4
E	8.4	1.9	5.1	.0	.0	.0	.0	14.6	5.2	1.9	.0	.0	1.9		.0	76.5
SE	10.0	4.5	3.6	.0	.0	.0	.0	16.1	8.8	.1	.0	.0	.1		.1	74.3
S	6.5	3.0	3.0	.0	.0	.0	.0	16.1	9.3	2.0	.1	.0	.6		.1	72.0
SW	11.3	6.1	4.0	.0	.0	.0	.0	21.2	9.4	3.8	.3	.0	.1		.1	67.2
W	8.5	4.8	2.6	.0	.0	.0	.0	15.9	7.8	3.4	.3	.0	.1		.0	74.2
NW	8.6	4.0	3.6	.0	.0	.0	.0	13.4	6.2	1.8	.2	.0	*		.2	78.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	2.9	1.7	.3	.0	.0	.0	.0	4.9	4.7	2.6	.0	.0	.0		.0	93.8
TOT PCT	9.2	4.9	3.1	.0	.0	.0	.0	16.9	9.1	1.8	.2	.0	.2		.1	72.7
TOT OBS:	6948															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
HOUR (GMT)	RAIN	RAIN SNOW	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	6.9	4.4	3.0	.0	.0	.0	.0	14.0	7.4	3.3	.2	.0	.2	.3		75.1
06&09	6.2	5.2	3.3	.0	.0	.0	.0	17.5	9.1	3.6	.3	.0	.1	.1		70.3
12&15	11.5	6.4	3.2	.0	.0	.0	.0	20.7	10.6	.9	.1	.0	.0	.1		67.9
18&21	9.3	6.4	2.8	.0	.0	.0	.0	16.2	6.6	.0	.5	.0	.4	*		76.3
TOT PCT	9.2	5.0	3.0	.0	.0	.0	.0	17.0	8.1	1.8	.3	.0	.2	.3		72.7
TOT OBS:	7311															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)				
WND DIR	0-3	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	1.6	.3	.0	.0	.0		2.2	6.4	1.0	1.6	2.3	1.2	3.5	5.2	1.9	2.9
NE	.3	1.0	.1	.0	.0	.0		1.5	6.3	.9	.0	1.5	3.7	1.7	3.4	1.4	1.3
E	.5	1.5	.2	*	.0	.0		2.2	6.2	1.6	1.8	3.1	2.5	1.6	5.2	2.2	1.8
SE	.6	2.3	.3	.0	.0	.0		3.2	6.5	2.4	4.7	3.4	3.5	3.5	4.0	3.0	2.5
S	1.4	7.0	2.1	.1	*	.0		10.6	8.0	10.8	16.8	12.1	13.5	9.2	13.0	10.2	12.0
SW	2.3	19.5	9.6	.2	*	.0		31.0	9.3	35.5	35.2	28.8	32.9	28.2	30.8	29.8	32.5
W	2.2	24.1	9.9	.3	*	.0		36.6	9.2	31.8	25.2	32.9	29.4	38.3	26.0	38.4	32.9
NW	.7	5.5	1.5	*	.0	.0		7.8	8.1	5.3	5.1	8.4	6.9	9.9	9.5	8.0	6.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.0							5.0	.0	1.6	4.4	3.5	4.9	5.0	3.0	5.0	2.8
TOT OBS	1061	5059	1932	50	1	0	8126		8.3	1843	111	1524	224	1769	169	2225	254
TOT PCT	13.1	62.3	23.8	.6	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.6	.8	*	.0	.0		2.2	6.4	1.0	2.2	3.7	2.0
NE	.9	.5	*	.0	.0		1.5	6.3	.9	1.7	1.9	1.4
E	1.4	.8	*	.0	.0		2.2	6.2	1.6	3.1	1.9	2.2
SE	2.0	1.1	*	.0	.0		3.2	6.5	2.8	3.4	3.6	2.9
S	4.6	5.6	1.4	*	.0		10.6	8.0	11.2	12.2	9.5	10.4
SW	8.8	20.6	1.6	*	.0		31.0	9.3	35.5	29.6	28.4	33.6
W	11.1	23.2	2.1	.1	.0		36.6	9.2	38.0	32.6	37.2	37.9
NW	3.3	4.3	.2	*	.0		7.8	8.1	5.	8.4	9.8	7.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.0						5.0	.0	3.6	7.2	4.9	4.8
TOT OBS	3125	4626	359	16	0	8126		8.3	1956	1753	1438	2479
TOT PCT	38.5	56.9	4.4	.2	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1951-1979
(OVER-ALL) 1368-1979

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00E03	3.6	6.4	64.1	25.3	.7	.0	.0	6.7	100.0	1956
06E09	7.2	8.2	62.8	21.0	.7	.0	.0	7.9	100.0	1753
12E15	4.9	9.2	60.9	24.3	.6	.1	.0	8.3	100.0	1938
18E21	4.8	9.0	61.5	24.2	.5	.1	.0	8.3	100.0	2479
TOT	409	672	5059	1933	50	3	0	8.3		8126
PCT	5.0	8.3	62.3	23.8	.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	.3	.4	.9	.5		5.3
NE	.2	.1	.6	.4		5.8
E	.3	.4	.7	.6		5.6
SE	.2	.5	1.2	1.1		6.1
S	.6	1.0	4.5	3.9		6.4
SW	1.5	3.7	12.9	12.5		6.4
W	2.8	6.3	17.1	11.7		5.9
NW	1.0	1.7	2.9	2.3		5.6
VAR	.0	.0	.0	.0		.0
CALM	1.0	.9	2.2	1.1		5.1
TOT OBS	440	843	2435	1919	5637	6.0
TOT PCT	7.8	15.0	43.2	34.0	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	*	*	.1	.3	.3	.1	*	*	.0	*	1.2	
NE	.0	*	.1	.1	.3	.1	*	*	*	.0	.7	
E	.0	*	.2	.2	.3	.2	*	.0	.0	*	1.1	
SE	.1	*	.2	.6	.5	.2	.1	*	*	.0	1.4	
S	.1	.1	.5	2.0	2.0	.9	.2	*	*	.0	4.1	
SW	.5	.3	1.9	6.2	5.9	2.3	.5	.1	.1	.1	12.7	
W	.5	.4	1.6	6.0	7.2	2.2	.6	.2	*	*	18.9	
NW	.1	.1	.3	.9	1.4	.4	.1	.1	*	*	4.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.1	.2	.5	.6	.2	.1	.1	.0	.0	3.3	
TOT OBS	80	57	278	948	1041	379	109	32	11	9	2693	5637
TOT PCT	1.4	1.0	4.9	16.8	18.5	6.7	1.9	.6	.2	.2	47.8	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 >5070	= OR >0
= OR >6500	.3	.3	.3	.3	.3	.3	.3	.3
= OR >5000	.8	.9	1.0	1.0	1.0	1.0	1.0	1.0
= OR >3500	2.4	2.7	2.9	2.9	2.9	2.9	2.9	2.9
= OR >2000	7.6	9.2	9.6	9.6	9.7	9.7	9.7	9.7
= OR >1000	21.6	26.9	27.8	28.0	28.1	28.1	28.1	28.1
= OR >600	32.6	42.5	44.4	44.7	44.8	44.9	44.9	44.9
= OR >300	35.1	46.6	49.2	49.6	49.7	49.8	49.9	49.9
= OR >150	35.6	47.3	50.1	50.6	50.7	50.6	50.9	50.9
= OR > 0	35.9	48.1	51.2	51.9	52.1	52.2	52.3	52.3
TOTAL	2060	2760	2940	2979	2990	2999	3004	3004

TOTAL NUMBER OF OBS: 5742

PCT FREQ NH <5/8: 47.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
1.5	5.6	11.6	19.6	13.8	10.5	11.7	9.5	20.2	1.0	6076

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TAF

PERCENT FREQ OF WIND DIRECTION . . .URRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VA YING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	.0	.0	*	.0	*	.1	*	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	*	*	*	.0	.0	*	.1	
	TOT %	*	.0	.0	*	*	.1	.1	*	.0	*	.2	
1/2<1	PCP	.0	.0	.0	*	*	.1	*	*	.0	*	.2	
	NO PCP	.0	.0	.0	.0	.0	*	*	.0	.0	*	.1	
	TOT %	.0	.0	.0	*	*	.1	*	*	.0	*	.2	
1<2	PCP	*	*	*	*	.1	.3	.2	.1	.0	*	.7	
	NO PCP	*	*	.0	*	*	*	*	*	.0	.0	.1	
	TOT %	*	*	*	.1	.1	.4	.2	.1	.0	*	.9	
2<5	PCP	.1	*	.1	*	.4	1.3	.7	.2	.0	*	2.8	
	NO PCP	*	*	.0	.1	.2	.4	.4	.1	.0	*	1.2	
	TOT %	.1	.1	.1	.1	.6	1.7	1.2	.2	.0	.1	4.0	
5<10	PCP	.1	.1	.1	.2	.8	2.7	2.6	.5	.0	.1	7.2	
	NO PCP	.2	.1	.3	.4	1.5	3.9	3.3	.7	.0	.2	10.7	
	TOT %	.3	.3	.5	.6	2.2	6.6	5.9	1.2	.0	.3	17.9	
10+	PCP	.1	.1	.1	.2	.5	2.1	2.3	.3	.0	.1	5.8	
	NO PCP	1.6	.8	1.5	2.2	7.0	19.9	27.6	5.9	.0	4.3	71.0	
	TOT %	1.7	1.0	1.6	2.4	7.5	22.0	29.9	6.2	.0	4.5	76.7	
	TOT OBS												6920
	TOT PCT	2.2	1.4	2.1	3.2	10.4	30.8	37.3	7.8	.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	*	*	
	4-10	*	.0	.0	*	*	*	.0	*	.0		.1	
	11-21	.0	.0	.0	*	*	.1	.1	.0	.0		.2	
	22+	.0	.0	.0	.0	*	*	.0	.0	.0		*	
	TOT %	*	.0	.0	*	*	.1	.1	*	.0	*	.3	
1/2<1	0-3	.0	.0	.0	*	.0	.0	.0	.0	.0	*	.1	
	4-10	.0	.0	.0	.0	*	.1	*	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.1	*	*	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	*	*	.1	.1	*	.0	*	.3	
1<2	0-3	.0	.0	.0	.0	*	*	.0	.0	.0	*	*	
	4-10	*	*	*	*	.1	.2	.1	.1	.0		.5	
	11-21	*	*	*	*	*	.1	.1	*	.0		.4	
	22+	.0	.0	.0	.0	.0	*	*	.0	.0		.1	
	TOT %	*	*	*	.1	.1	.4	.2	.1	.0	*	1.0	
2<5	0-3	*	*	*	.0	*	.1	.1	*	.0	.1	.4	
	4-10	*	*	*	.1	.3	1.0	.7	.2	.0		2.5	
	11-21	*	*	*	*	.2	.8	.4	.1	.0		1.6	
	22+	.0	.0	*	.0	.0	*	*	.0	.0		.1	
	TOT %	.1	.1	.1	.1	.6	1.9	1.3	.3	.0	.1	4.5	
5<10	0-3	*	*	*	.1	.2	.2	.2	.1	.0	.3	1.2	
	4-10	.2	.2	.4	.4	1.3	3.6	3.1	.8	.0		10.0	
	11-21	*	*	*	.1	.7	2.6	2.3	.3	.0		6.1	
	22+	.0	.0	.0	.0	*	.1	.2	*	.0		.3	
	TOT %	.3	.3	.5	.6	2.2	6.5	5.7	1.2	.0	.3	17.6	
10+	0-3	.4	.2	.5	.5	1.2	1.7	1.9	.6	.0	4.6	11.6	
	4-10	1.1	.7	1.0	1.6	5.2	14.5	20.1	4.5	.0		48.8	
	11-21	.2	.1	.1	.2	1.1	5.5	7.2	1.2	.0		15.6	
	22+	.0	.0	.0	.0	*	.1	.1	*	.0		.2	
	TOT %	1.7	1.0	1.5	2.3	7.5	21.9	29.5	6.3	.0	4.6	76.3	
	TOT OBS												7320
	TOT PCT	2.1	1.4	2.1	3.1	10.5	30.9	36.9	7.9	.0	5.1	100.0	

PERIOD: (PRIMARY) 1951-1979
(OVER-ALL) 1868-1979

AREA 0011 PUNTA BURICA
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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	%M <5/8 ANY HGT	TOTAL OBS
00E03	1.2	.7	4.7	15.7	17.8	6.8	1.4	.7	.1	.1	49.2	50.8	1508
06E09	2.1	.7	5.7	16.6	19.1	7.2	1.5	.5	.3	.1	53.8	46.2	1129
12E15	1.5	1.5	5.8	17.0	16.6	5.6	2.5	.5	.3	.1	53.4	46.6	1567
18E21	1.2	1.0	3.6	16.5	17.3	7.1	2.1	.6	.2	.3	49.6	50.2	1738
TOT	86	58	285	967	1065	391	112	35	11	9	3019	2663	5682
PCT	1.5	1.0	4.8	16.4	18.1	6.6	1.9	.6	.2	.2	51.3	45.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.3	.2	.7	3.6	16.7	78.6	1824
06E09	.2	.2	.9	4.8	19.8	74.1	1593
12E15	.3	.4	1.3	5.0	18.0	75.0	1803
18E21	.5	.4	1.2	4.5	16.1	77.3	2265
TOT	25	22	76	337	1309	5716	7485
PCT	.3	.3	1.0	4.5	17.5	76.4	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	MM <5/8 AND 5+	TOTAL OBS
00E03	1.2	6.9	24.0	25.7	50.5	1465
06E09	2.2	9.0	28.0	28.8	43.2	1083
12E15	1.4	8.9	27.8	26.7	45.5	1475
18E21	1.2	6.3	24.6	26.8	48.6	1699
TOT	84	438	1488	1542	2712	5742
PCT	1.5	7.6	25.9	26.9	47.2	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	.2	*	.0	.0	15	.2
85/89	.0	.0	*	*	.6	1.9	.6	.1	202	3.2
80/84	.0	.0	.0	*	.9	11.5	25.1	4.5	2613	42.0
75/79	.0	.0	.0	.0	.1	2.1	23.3	27.1	3273	52.6
70/74	.0	.0	.0	.0	.0	.0	.1	1.9	125	2.0
TOTAL	0	0	2	3	107	960	3065	2091	6228	100.0
PCT	.0	.0	*	*	1.7	15.4	49.2	33.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	*	*	.0	.0	*	.1	*	.0	*
*	*	.1	.1	.3	.7	1.2	.4	.0	.4
1.1	.5	1.1	1.3	3.8	10.8	17.1	3.7	.0	2.5
.9	.7	.9	1.7	6.1	18.4	18.3	3.4	.0	2.2
.1	*	.1	.1	.3	.7	.7	.1	.0	.1
2.1	1.3	2.2	3.2	10.5	30.6	37.4	7.6	.0	5.1

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	88	85	82	79	75	73	66	79.1	1994
06E09	90	83	82	79	75	73	68	78.5	1809
12E15	88	83	82	78	75	74	68	78.5	1962
18E21	92	89	86	81	75	73	68	80.7	2513
TOT	92	86	84	79	75	73	66	79.3	8278

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	.5	13.0	54.7	31.9	87	1628
06E09	.0	.0	.8	7.4	51.4	40.4	86	1335
12E15	.0	.0	.6	8.5	48.8	41.9	88	1592
18E21	.0	.3	4.2	29.4	43.8	22.4	83	1833
TOT	0	5	109	983	3155	2136	86	6388

PERIOD: (PRIMARY) 1951-1979
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TABLE 17

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

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	*	1	.0	*
11/13	.0	.0	.0	*	.1	*	*	10	.0	.2
9/10	.0	.0	.0	.0	.1	*	*	10	.0	.2
7/8	.0	.0	.0	*	.1	.2	.2	34	*	.5
6	.0	.0	.0	.1	.1	.3	.1	40	.0	.6
5	.0	.0	.0	.1	.3	.4	*	55	.0	.9
4	.0	.0	.0	.3	.8	.5	*	105	.0	1.6
3	.0	.0	.0	.3	1.0	.6	*	121	.0	1.9
2	.0	.0	.1	1.0	2.9	.5	.0	283	.0	4.4
1	.0	.0	*	1.6	3.3	.3	.0	332	*	5.2
0	.0	.0	.3	5.8	5.9	.2	.0	785	.1	12.1
-1	.0	.0	.5	8.1	4.3	.1	.0	834	.1	12.9
-2	.0	.0	.9	12.9	3.8	*	.0	1124	.0	17.5
-3	.0	*	1.6	10.3	1.9	.0	.0	881	*	13.7
-4	.0	*	2.2	8.1	.6	.0	.0	715	.0	11.1
-5	.0	.0	2.3	6.0	.3	.0	.0	556	.0	8.7
-6	.0	*	1.6	2.4	.1	.0	.0	262	*	4.1
-7/-8	*	*	2.1	1.1	.1	.0	.0	217	.0	3.4
-9/-10	.0	.1	.5	.1	.0	.0	.0	46	*	.7
-11/-13	.0	*	*	*	.0	.0	.0	5	.0	.1
-14/-16	*	*	.0	.0	.0	.0	.0	2	.0	*
-17/-19	*	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	3		779		1653		26		18	6401
		15		3741		202		6419		
PCT	*	.2	12.1	58.3	25.8	3.1	.4	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	T
<1	.2	.2	.0	.0	.0	.0	.4
1-2	*	.8	.1	.0	.0	.0	.9
3-4	*	.3	.1	.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	.3	1.3	.2	.0	.0	.0	1.7

NE

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

C

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.2	.0	.0	.0	.0	.2
1-2	.1	.5	.2	.0	.0	.0	.8
3-4	.0	.2	.0	.0	.0	.0	.2
5-6	.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	.2	1.0	.2	.0	.0	.0	1.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.6	*	.0	.0	.0	1.0
1-2	.1	1.3	.2	.0	.0	.0	1.7
3-4	.1	.6	.1	.0	.0	.0	1.0
5-6	.0	*	.1	.0	.0	.0	.1
7	.0	.1	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	*	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.9	.4	.0	.0	.0	3.9

NOVEMBER

PERIOD: (OVER-ALL) 1963-1979 AREA 0511 PUNTA BURICA 7.6N 83.0W

TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.4	.2	.0	.0	.0	2.0
1-2	.4	3.1	.5	.0	.0	.0	4.0
3-4	.2	1.8	.7	.1	.0	.0	2.8
5-6	.0	.8	.7	.0	.0	.0	1.5
7	.0	.3	.0	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	7.3	2.2	.1	.0	.0	10.7

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	2.7	.9	.0	.0	.0	3.7
1-2	.6	11.5	1.8	.0	.0	.0	13.9
3-4	.1	5.2	5.3	.0	.0	.0	10.5
5-6	.0	1.0	2.0	.0	.0	.0	4.5
7	.0	.2	.7	.0	.0	.0	.8
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.8	21.3	10.7	.1	.0	.0	33.7

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	3.4	.2	.0	.0	.0	4.0
1-2	.7	13.8	2.7	.0	.0	.0	17.2
3-4	.2	5.4	4.6	.1	.0	.0	10.3
5-6	.0	.9	2.5	*	.0	.0	3.5
7	.0	*	.4	.0	.0	.0	.5
8-9	.0	.1	.1	.1	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	23.6	10.6	.2	.0	.0	35.8

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.4	.1	.0	.0	.0	1.1	
1-2	.2	3.1	.7	.0	.0	.0	3.9	
3-4	*	1.0	.6	.0	.0	.0	1.7	
5-6	.0	.3	.3	.0	.0	.0	.6	
7	.0	*	.1	.0	.0	.0	.1	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	5.2	1.7	.0	.0	.0	7.4	95.7

WIND SPEED (KTS.) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.7	9.7	.5	.0	.0	.0	18.0	
1-2	2.5	39.1	6.2	.0	.0	.0	47.7	
3-4	.7	19.5	11.2	.7	.0	.0	26.2	
5-6	.0	3.7	6.3	.1	.0	.0	10.2	
7	.0	.6	1.2	.0	.0	.0	1.8	
8-9	.0	.1	.1	.1	.0	.0	.3	
10-11	.0	.0	.1	.0	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.0	62.9	25.7	.4	.0	.0	100.0	2054

PERIOD: (OVER-ALL) 1949-1979

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	9.6	18.7	19.9	7.6	1.5	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2822	3
6-7	.3	3.2	8.7	6.0	3.1	.6	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3268	4
8-9	*	.7	2.4	2.3	1.3	.5	.2	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	381	5
10-11	.0	.4	.2	.7	.4	.2	.1	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	137	5
12-13	.0	.0	.0	.3	.2	*	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	73	6
>13	.0	.2	.0	.5	.3	.1	*	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	50	7
INDET	9.7	1.2	2.3	.9	.3	.1	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	497	2
TOTAL	106	1265	1823	1056	424	103	34	7	9	1	0	0	0	0	0	0	0	0	0	3228	3
PC	9.7	24.2	34.9	20.9	8.1	2.0	.7	.1	.2	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	163.5	

DECEMBER

PERIOD: (PRIMARY) 1950 1979
(OVER-ALL) 1878-1979

AREA 0011 PUNTA BURICA
7.6N 83.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	SPRAY DUST SNOW	NO SIG WEA
N	.8	1.3	.7	.0	.0	.0	.0	2.8	2.6	1.3	.6	.0	.0	.0	.0	92.8
NE	1.9	.4	1.9	.0	.0	.0	.0	3.9	2.6	1.0	.2	.0	.0	.0	.0	92.4
E	.8	1.9	.4	.0	.0	.0	.0	3.1	3.6	1.7	.3	.0	.0	.0	.0	1.7
SE	2.9	1.4	1.6	.0	.0	.0	.0	6.0	4.0	2.4	.3	.1	.0	.0	.4	85.9
S	2.8	2.8	.8	.0	.0	.0	.0	6.3	5.8	2.6	.4	.0	.0	.0	.0	9.3
SW	3.1	3.5	1.1	.0	.0	.0	.0	7.7	4.9	1.6	1.0	.0	.0	.3	.1	84.5
W	2.4	1.9	1.1	.0	.0	.0	*	5.2	3.2	1.8	.5	.0	.1	.1	.1	85.1
NW	2.1	3.1	.9	.0	.0	.0	.0	5.8	3.7	1.2	.9	.0	*	.1	.1	88.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6	.6	.2	.0	.0	.0	.0	2.2	2.9	1.8	.2	.0	.0	.4	.0	92.5
TOT PCT	2.3	2.2	1.0	.0	.0	.0	*	5.4	3.8	1.7	.6	.0	.1	.1	.1	88.5
TOT OBS:	6999															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE							OTHER WEATHER 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	SPRAY DUST SNOW	NO SIG WEA
00E03	2.1	1.3	.9	.0	.0	.0	.0	4.2	2.9	1.9	.6	.0	.2	.2	.2	90.2
06E09	2.9	2.7	1.1	.0	.0	.0	.0	6.4	4.2	4.8	1.0	.0	.1	.1	.1	83.7
12E15	3.0	3.0	1.1	.0	.0	.0	.0	6.9	5.2	1.0	.4	.0	.1	.1	.0	86.4
18E21	1.7	2.2	.8	.0	.0	.0	*	4.7	2.8	*	.6	.0	.1	.1	*	91.6
TOT PCT	2.4	2.3	1.0	.0	.0	.0	*	5.5	3.7	1.7	.6	.0	.1	.1	.1	88.3
TOT OBS:	7197															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FRE.	MEAN SPD	00	03	06	09	12	15	18	21
N	1.2	4.5	.9	.0	*	.0		6.7	6.9	2.8	3.3	5.3	7.5	10.3	9.5	7.9	7.9
NE	.7	3.3	.8	*	.0	.0		4.5	7.2	1.9	2.1	4.5	5.3	6.5	5.3	5.5	2.8
E	.8	2.2	.4	.0	.0	.0		3.4	6.3	2.0	3.8	4.1	1.9	3.5	5.3	3.8	4.6
SE	.8	2.6	.3	.0	.0	.0		3.7	6.1	3.7	4.4	4.8	3.2	2.8	4.0	3.3	6.8
S	1.6	5.5	.6	*	.0	.0		7.7	6.4	9.2	9.6	9.7	6.5	5.4	7.3	6.7	10.4
SW	2.8	13.7	2.6	*	.0	.0		19.2	7.2	25.6	23.8	18.7	21.1	14.9	23.0	17.0	21.0
W	4.1	24.7	4.7	.0	.0	.0		33.5	7.4	41.0	34.4	31.3	36.9	30.1	30.0	32.0	29.4
NW	1.4	10.1	1.9	*	.0	.0		13.5	7.4	8.4	12.9	10.4	10.9	18.1	14.7	16.1	12.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.9							7.9	.0	5.5	5.8	11.3	8.6	8.5	6.0	7.5	5.0
TOT OBS	1704	5375	968	8	1	0	8056		6.6	1774	120	1478	232	1636	151	2203	262
OT PCT	21.2	66.7	12.0	.1	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.8	2.8	.1	*	.0		6.7	6.9	2.8	5.6	9.9	7.9
NE	2.5	1.9	.1	.0	.0		4.5	7.2	1.9	4.3	6.4	5.3
E	2.2	1.2	.1	.0	.0		3.4	6.3	2.1	3.8	3.6	3.9
SE	2.4	1.3	*	.0	.0		3.7	6.1	3.7	4.6	2.9	3.7
S	4.8	2.8	.1	.0	.0		7.7	6.4	9.2	9.3	5.5	7.1
SW	9.9	8.8	.4	.0	.0		19.2	7.2	25.5	19.6	15.5	17.4
W	15.7	17.0	.7	.0	.0		33.5	7.4	40.5	32.0	13.1	31.7
NW	6.7	6.6	.2	*	.0		13.5	7.4	6.7	10.5	17.8	15.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	7.9						7.9	.0	5.5	10.9	6.3	7.2
TOT OBS	4496	3408	150	2	0	8056		6.6	1894	1710	1987	2465
TOT PCT	55.8	42.3	1.9	*	.0		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1950-1979
(OVER-ALL) 1878-1979

APLA 0611 PUNTA BURICA
7.6N 83.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00E03	5.5	12.7	69.4	12.8	.1	.0	.0	7.0	100.0	1894
06E09	10.9	12.3	64.6	12.1	.0	.0	.0	6.3	100.0	1730
12E15	8.3	12.6	66.6	12.4	.1	.0	.0	6.6	100.0	1987
18E21	7.2	15.3	66.2	11.1	.2	*	.0	6.5	100.0	2465
TOT	634	1070	5375	968	8	1	0	6.6		8056
PCT	7.9	13.3	66.7	12.0	.1	*	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.1	1.9	1.6	.7		3.8
NE	2.0	1.2	1.1	.4		3.4
E	1.1	1.0	1.1	.3		3.8
SE	.6	1.4	1.3	.6		4.7
S	1.3	1.5	3.4	1.3		5.1
SW	2.8	3.8	8.4	3.6		5.2
W	6.9	8.7	13.6	5.0		4.7
NW	3.1	3.7	5.2	1.9		4.5
VAR	.0	.0	.0	.0		.0
CALM	2.4	2.0	2.4	.7		3.9
TOT OBS	1260	1428	2158	815	5661	4.6
TOT PCT	22.3	25.2	38.1	14.4	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	*	.0	.1	.2	.4	.3	.1	*	.1	.0	5.2	
NE	*	.0	*	.2	.3	.1	*	*	.0	.0	4.0	
E	.1	*	*	.1	.3	.1	*	.0	*	.0	2.7	
SE	*	.0	.1	.3	.4	.2	.1	.0	*	*	2.7	
S	*	.1	.2	.7	1.1	.3	.2	.1	*	*	4.7	
SW	.2	.1	.5	2.0	2.8	.9	.5	.1	.1	*	11.4	
W	.1	.1	.5	2.8	4.4	1.4	.5	.2	.1	.1	24.0	
NW	.1	.1	.2	1.1	1.4	.8	.3	*	.1	*	9.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	.1	.1	.6	.5	.2	.1	.1	*	*	5.8	
TOT OBS	28	21	111	460	661	245	95	35	16	8	3981	5661
TOT PCT	.5	.4	2.0	8.1	11.7	4.3	1.7	.6	.3	.1	70.3	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 >5DYD	= OR >0
= OR >6500	.4	.4	.4	.4	.4	.4	.4	.4
= OR >5000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
= OR >3500	2.5	2.6	2.6	2.7	2.7	2.7	2.7	2.7
= OR >2000	6.5	7.0	7.1	7.2	7.2	7.2	7.2	7.2
= OR >1000	16.4	18.1	18.6	18.7	18.7	18.7	18.7	18.7
= OR >600	22.4	25.8	26.6	26.8	26.8	26.8	26.8	26.8
= OR >300	23.7	27.5	28.5	28.7	28.7	28.7	28.7	28.8
= OR >150	23.9	27.9	28.8	29.0	29.1	29.1	29.1	29.2
= OR > 0	24.1	28.2	29.3	29.5	29.5	29.6	29.6	29.6
TOTAL	1408	1650	1711	1725	1727	1729	1730	1732

TOTAL NUMBER OF OBS: 5845 PCT FREQ NH <5/8: 70.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
6.2	14.4	16.8	17.9	12.5	8.5	7.2	6.8	7.0 .3	6118

PERIOD: (PRIMARY) 1950-1979
(OVER-ALL) 1878-1979

AREA 0011 PUNTA BURICA
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TABLE 6

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	*	*	*	*	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	*	*	.0	*	.0	.0	.1	
	TOT %	.0	.0	.0	.0	*	*	*	*	.0	.0	.1	
1/2<1	PCP	.0	*	*	.0	.0	*	.0	.0	.0	.0	*	
	NO PCP	.0	.0	.0	.0	.0	*	*	*	.0	.0	*	
	TOT %	.0	*	*	.0	.0	*	*	*	.0	.0	.1	
1<2	PCP	.0	.0	*	*	*	.1	.1	*	.0	.0	.2	
	NO PCP	.0	.0	.0	*	*	*	.0	.0	.0	.0	*	
	TOT %	.0	.0	*	*	*	.1	.1	*	.0	.0	.3	
2<5	PCP	*	*	*	*	.1	.2	.2	.1	.0	*	.9	
	NO PCP	*	*	*	*	*	.1	.2	*	.0	*	.4	
	TOT %	*	.1	.1	*	.2	.3	.4	.1	.0	.1	1.3	
5<10	PCP	.1	.1	*	.1	.2	.5	.7	.4	.0	.1	2.0	
	NO PCP	.3	.1	.1	.3	.7	1.8	2.1	.9	.0	.2	6.5	
	TOT %	.4	.2	.2	.4	.9	2.2	2.8	1.3	.0	.3	8.6	
10+	PCP	.1	*	*	.1	.1	.7	.7	.3	.0	.1	2.1	
	NO PCP	6.1	4.3	3.2	3.2	6.3	15.8	29.6	12.1	.7	7.0	87.5	
	TOT %	6.1	4.3	3.2	3.2	6.4	16.5	30.3	12.4	.0	7.0	89.7	
	TOT OBS												6920
	TOT PCT	6.5	4.6	3.4	3.7	7.6	19.2	33.7	13.9	.0	7.4	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		.1	
	11-21	.0	.0	.0	.0	*	*	*	*	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	*	.1	.1	*	.0	.0	.2	
1/2<1	0-3	.0	.0	*	.0	.0	.0	*	*	.0	.0	*	
	4-10	.0	*	.0	.0	.0	*	.0	.0	.0		*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	*	.0	.0	*	*	*	.0	.0	.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
	4-10	.0	.0	*	*	*	.1	.1	*	.0		.3	
	11-21	.0	.0	.0	*	.0	*	*	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	*	*	*	.1	.1	*	.0	.0	.4	
2<5	0-3	*	.0	.0	*	*	*	*	*	.0	.1	.2	
	4-10	*	.1	.1	*	.1	.3	.4	.1	.0		1.0	
	11-21	.0	*	.0	.0	*	.1	.1	*	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.1	.1	*	.2	.4	.5	.1	.0	.1	1.5	
5<10	0-3	.1	*	*	*	.2	.4	.4	.1	.0	.1	1.5	
	4-10	.2	.1	.1	.2	.5	1.2	1.6	.8	.0		4.8	
	11-21	.1	*	*	.1	.1	.6	.7	.3	.0		2.1	
	22+	.0	.0	.0	.0	*	*	.0	.0	.0		*	
	TOT %	.4	.2	.2	.4	.9	2.2	2.7	1.2	.0	.3	8.4	
10+	0-3	1.1	.6	.7	.8	1.1	2.3	3.7	1.3	.0	7.3	18.9	
	4-10	4.2	3.1	2.1	2.3	4.8	12.2	22.7	9.4	.0		60.8	
	11-21	.6	.5	.4	.1	.5	1.9	3.9	1.6	.0		9.7	
	22+	.0	*	.0	.0	*	*	.0	*	.0		.1	
	TOT %	6.2	4.3	3.2	3.2	6.4	16.5	30.2	12.3	.0	7.3	89.5	
	TOT OBS												7279
	TOT PCT	6.6	4.5	3.4	3.7	7.5	19.2	33.6	13.7	.0	7.6	100.0	

DECEMBER

PERIOD: (PRIMARY) 1950-1979
(OVER-ALL) 1874-1979

AREA 0011 PUNTA BURICA
7.6N 83.3W

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	MM <5/8 ANY HGT	TOTAL OBS
00E03	.3	.1	2.0	7.5	12.7	4.4	2.2	.5	.1	.1	29.7	70.3	1527
06E09	.7	.3	2.3	9.2	10.1	4.3	1.6	.5	.6	.4	30.1	69.9	1153
12E15	.7	.8	1.7	9.6	11.7	4.0	1.5	.4	.2	.0	30.6	69.4	1565
18E21	.3	.2	1.7	5.7	10.4	4.7	1.3	.9	.2	.1	25.7	74.3	1792
TOT	28	22	114	473	680	264	99	36	16	8	1740	4297	6037
PCT	.5	.4	1.9	7.8	11.3	4.4	1.6	.6	.3	.1	28.8	71.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.1	.0	.4	1.4	7.4	90.7	1791
06E09	.1	.1	.3	2.1	10.3	87.1	1589
12E15	.2	.1	.4	1.6	8.8	89.0	1875
18E21	.3	.1	.4	1.1	7.6	90.6	2282
TOT	13	5	28	112	635	6744	7537
PCT	.2	.1	.4	1.5	8.4	89.5	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND/OR 5+	MM <5/8 AND 5+	TOTAL OBS
00E03	.4	2.5	11.1	19.9	69.1	1671
06E09	.7	3.6	14.1	17.2	68.7	1112
12E15	.7	3.3	14.0	17.6	68.4	1521
18E21	.3	2.5	8.8	17.7	73.5	1741
TOT	30	170	686	1058	4101	5845
PCT	.5	2.9	11.7	18.1	70.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.1	.2	.1	.1	.0	31	.5
85/89	.0	.0	.0	.1	1.7	3.5	.9	.3	391	6.4
80/84	.0	.0	.0	.2	3.5	25.2	27.7	5.4	3760	62.0
75/79	.0	.0	.0	.0	.2	3.5	16.0	10.8	1848	30.4
70/74	.0	.0	.0	.0	.0	.0	.1	.5	39	.6
TOTAL	0	0	0	20	343	1958	2719	1029	6069	100.0
PCT	.0	.0	.0	.3	5.7	32.3	44.8	17.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.1	.1	.0	*	*	.1	.1	.0	*
.7	.5	.3	.3	.2	.8	2.1	1.0	.0	.5
4.2	3.2	2.2	2.2	4.0	10.6	21.4	9.1	.0	5.1
1.5	1.1	.8	1.0	2.9	7.6	10.2	3.5	.0	2.0
.1	.1	*	*	.1	.1	.1	.2	.0	.0
6.5	4.8	3.3	3.5	7.2	19.2	33.9	13.9	.0	7.7

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	93	86	84	81	77	75	71	80.6	1948
06E09	90	84	82	80	76	75	66	79.6	1766
12E15	91	84	83	80	76	73	66	79.5	2030
18E21	94	90	87	82	78	75	66	82.3	2529
TOT	94	88	85	81	77	74	66	80.7	8273

TABLE 16

PERCENT FREQUENCY OF RELATIVE [illegible]OITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	8[illegible]	100	MEAN	TOTAL OBS
00E03	.0	.2	3.0	32.9	49.7	14.3	82	1591
06E09	.0	.0	1.7	24.7	51.8	21.8	84	1269
12E15	.0	.1	1.9	26.0	47.5	22.5	84	1617
18E21	.0	.6	14.0	42.7	3[illegible].3	11.2	78	1837
TOT	0	20	358	2040	2823	1073	82	6314

DECEMBER

PERIOD: (PRIMARY) 1952-1979
(OVER-ALL) 1874-1979

AREA 0011 PUNTA BUNICA
7.6N 83.0W

TABLE 17

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

AIR-SEA TMP DIF	65 68	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	*	2	.0	*
11/13	.0	.0	.0	.0	.1	.1	*	.1	16	.0	.2
9/10	.0	.0	.0	*	.1	.1	.1	*	22	.0	.2
7/8	.0	.0	.0	*	.2	.3	.2	.0	53	.0	.8
6	.0	.0	.0	*	.2	.4	.1	.0	45	.0	.7
5	.0	.0	.0	*	.3	.7	.1	.0	72	.0	1.1
4	.0	.0	.0	.2	1.2	1.2	.0	.0	167	.0	2.6
3	.0	.0	*	.2	1.2	1.1	*	.0	165	*	2.5
2	.0	.0	.0	.7	4.0	1.0	*	.0	373	*	5.7
1	.0	.0	*	.9	4.7	.7	.0	.0	412	*	6.3
0	.0	.0	*	4.4	9.2	.4	.0	.0	910	.1	13.9
-1	.0	.0	.1	5.5	9.0	.2	.0	.0	964	*	14.6
-2	.0	*	.2	10.6	7.8	.1	.0	.0	1218	*	18.7
-3	.0	.0	.2	7.4	3.6	.1	.0	.0	719	.0	11.0
-4	.0	*	.7	7.0	2.0	*	.0	.0	635	*	9.7
-5	.0	.0	.6	4.0	.9	.0	.0	.0	358	*	5.5
-6	.0	.0	.7	2.0	.1	.0	.0	.0	186	.0	2.9
-7/-8	*	*	.7	1.2	.2	.0	.0	.0	146	.0	2.2
-9/-10	*	*	.3	.2	*	.0	.0	.0	35	.0	.5
-11/-13	.0	.1	*	.1	.0	.0	.0	.0	12	.0	.2
-14/-16	*	*	.0	.0	.0	.0	.0	.0	4	.0	.1
TOTAL	4	18	245	2883	2902	914	40	8	6514	14	6500
PCT	.1	.3	3.8	44.3	44.6	14.4	.6	.1	100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.0	.1	.0	.0	.0	1.5
1-2	.3	1.9	.3	.0	.0	.0	2.5
3-4	.1	1.0	.1	.0	.0	.0	1.2
5-6	.0	.1	.1	.0	.0	.0	.2
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	3.9	.7	.0	.0	.0	5.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.3	.1	.0	.0	.0	.5
1-2	.4	1.6	.1	.0	.0	.0	2.0
3-4	*	.8	.5	.0	.0	.0	1.3
5-6	.0	.2	.3	.0	.0	.0	.5
7	.0	.1	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	2.8	1.0	.0	.0	.0	4.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.5	.0	.0	.0	.0	.9
1-2	.2	.9	.1	.0	.0	.0	1.1
3-4	.0	.4	.3	.0	.0	.0	.8
5-6	.0	.1	.1	.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	.6	1.9	.4	.0	.0	.0	2.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	.0	.0	.0	.0	.4
1-2	.3	1.4	.3	.0	.0	.0	2.0
3-4	.0	.1	.1	.0	.0	.0	.2
5-6	.0	.1	.2	.0	.0	.0	.2
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.0	.4	.0	.0	.0	2.9

PERIOD: (OVER-ALL) 1963-1979

DECEMBER

TABLE 16 (CONT)

AREA 0011 PUNTA BURICA 7.0N 83.0W

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.1	.0	.0	.0	.0	1.7
1-2	.5	3.7	.2	.0	.0	.0	4.4
3-4	*	1.1	.1	.0	.0	.0	1.3
5-6	*	.1	.3	.0	.0	.0	.4
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	*	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	6.0	.7	.1	.0	.0	7.9

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	3.4	*	.0	.0	.0	4.4
1-2	.5	7.4	1.0	.0	.0	.0	8.9
3-4	.2	2.7	1.2	.0	.0	.0	4.0
5-6	*	.2	.5	.0	.0	.0	.2
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	13.3	2.9	.0	.0	.0	17.8

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.7	5.0	.2	.0	.0	.0	6.9
1-2	1.1	15.8	2.7	.0	.0	.0	19.6
3-4	.3	5.8	2.4	.0	.0	.0	8.5
5-6	*	.6	1.0	.0	.0	.0	1.6
7	.0	.1	.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	3.1	27.3	6.5	.0	.0	.0	36.9

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	1.5	.1	.0	.0	.0	2.5
1-2	.4	3.6	.4	.0	.0	.0	9.0
3-4	*	2.0	1.3	.0	.0	.0	3.3
5-6		.2	.2	.0	.0	.0	.4
7	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	11.4	2.5	.0	.0	.0	15.2

HGT	TOTAL PCT
<1	2.5
1-2	9.0
3-4	3.3
5-6	.4
7	*
8-9	.0
10-11	.0
12	.0
13-16	.0
17-19	.0
20-22	.0
23-25	.0
26-32	.0
33-40	.0
41-48	.0
49-60	.0
61-70	.0
71-86	.0
87+	.0
TOT PCT	93.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	12.7	12.6	.5	.0	.0	.0	25.8	
1-2	9.5	39.5	5.4	.0	.0	.0	49.4	
3-4	.8	13.4	5.8	.0	.0	.0	20.0	
5-6	.1	1.4	2.6	.0	.0	.0	4.1	
7	.0	.2	.4	.0	.0	.0	.5	
8-9	.0	.1	.1	.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	
								1958
TOT PCT	16.1	67.2	14.7	.1	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1979

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	8.2	25.1	18.2	4.9	1.0	.2	*	*	-1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	2949	2
6-7	.3	3.1	8.2	4.1	1.1	.2	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	870	*
8-9	.1	.9	2.7	2.0	.7	.2	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	335	*
10-11	.0	1.0	1.0	.6	.3	*	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	152	*
12-13	.0	.0	.7	.3	.1	*	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	62	5
>13	.0	.0	.0	.4	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	6
INDET	8.0	2.1	2.8	.7	.2	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	705	1
TOTAL	842	1642	1711	659	182	42	13	5	3	2	0	0	0	0	0	0	0	0	0	5107	3
PCT	16.5	32.2	33.5	12.9	3.6	.8	.3	.1	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

ANNUAL

PERIOD: (PRIMARY) 1949-1979
(OVER-ALL) 1857-1979

AREA 0011 PUNTA BURICA
7.6N 83.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	6.4	3.5	2.0	.0	.0	.0	.0	11.6	6.1	3.0	.5	.0	.8	•		78.4
NE	6.4	3.4	2.7	.0	.0	.0	.0	12.0	6.4	3.1	.4	.0	.9	.1		79.5
E	5.9	2.6	1.9	.0	.0	.0	.0	10.3	4.3	3.2	.3	.0	1.1	•		81.0
SE	5.3	2.9	1.8	.0	.0	.0	.0	9.9	5.4	3.1	.2	•	.6	.1		81.1
S	5.7	3.6	2.1	.0	.0	.0	•	11.1	6.4	2.8	.2	.0	1.1	.1		78.6
SW	6.1	3.6	2.1	.0	.0	.0	•	11.6	6.0	3.1	.2	.0	.7	.1		78.4
W	5.3	3.4	1.5	.3	.0	.0	•	10.0	5.1	3.0	.3	•	.7	.1		81.2
NW	5.7	3.2	1.6	.0	.0	.0	•	10.3	5.3	3.5	.2	•	.5	.1		80.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	2.5	1.7	.9	.0	.0	.0	•	5.1	3.9	3.4	.2	•	1.1	•		86.5
TOT PCT	5.4	3.3	1.8	.0	.0	.0	•	10.4	5.4	3.0	.3	•	.8	.1		80.4
TOT OBS: 85761																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00E03	4.5	2.8	1.6	.0	.0	.0	•	8.7	4.2	2.5	.3	•	.8	.1		83.7
06E09	5.3	3.1	2.1	.0	.0	.0	•	10.3	5.2	7.9	.4	•	.8	•		75.8
12E15	6.7	4.4	2.0	.0	.0	.0	•	12.9	7.1	2.7	.3	•	.7	•		76.8
18E21	5.4	3.1	1.6	.0	.0	.0	•	9.9	5.0	.5	.4	•	.9	•		83.4
TOT PCT	5.5	3.3	1.8	.0	.0	.0	•	10.4	5.4	3.1	.3	•	.8	.1		80.2
TOT OBS: 88882																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.1	3.1	.8	•	•	.0		5.0	6.8	2.2	3.0	4.4	4.7	7.8	4.7	5.6	4.5
NE	.8	3.3	1.1	.1	•	.0		5.1	7.3	2.2	2.1	4.3	4.1	7.9	5.8	6.2	4.8
E	1.0	3.2	.5	•	•	.0		4.7	6.6	2.9	3.7	4.4	3.2	5.4	5.9	6.0	4.0
SE	1.2	3.8	.5	•	•	.0		5.5	6.5	5.0	5.5	5.8	5.3	4.6	5.1	6.5	6.9
S	2.0	7.9	1.5	•	•	.0		11.3	6.9	13.9	13.4	11.4	10.8	8.0	11.1	11.4	14.5
SW	2.5	14.9	4.8	.1	•	.0		22.4	7.7	29.0	24.0	20.3	23.1	18.5	21.4	20.9	26.3
W	3.1	19.1	5.7	.1	•	.0		28.1	7.8	33.0	31.3	28.0	28.8	26.5	25.5	25.7	24.9
NW	1.3	6.5	1.4	•	•	.0		9.2	7.5	6.2	9.0	9.2	9.8	12.2	13.1	9.2	8.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.6							8.6	.0	5.5	8.1	12.3	10.0	9.1	7.5	8.5	5.8
TOT OBS							99455		7.0	22301	1562	16362	2742	22049	2272	27003	3164
TOT PCT	21.5	61.8	16.3	.4	•	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)				
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.7	2.1	.2	•	.0		5.0	6.8	2.3	4.4	7.5	5.5
NE	2.4	2.4	.3	•	.0		5.1	7.3	2.2	4.2	7.7	6.1
E	2.8	1.8	.1	•	•		4.7	6.6	2.9	4.3	5.4	5.8
SE	3.4	2.0	.1	•	.0		5.5	6.5	5.1	5.7	4.6	6.5
S	6.2	4.9	.3	•	.0		11.3	6.9	13.9	11.4	8.3	11.7
SW	9.5	12.1	.8	•	•		22.4	7.7	28.7	20.7	19.8	21.5
W	12.0	15.1	1.0	•	•		28.1	7.8	32.9	28.1	26.4	25.6
NW	4.7	4.4	.2	•	.0		9.2	7.5	6.4	9.2	12.3	9.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	8.6						8.6	.0	5.7	12.0	9.0	8.2
TOT OBS						99455		7.0	23653	21164	24321	30167
TOT PCT	52.2	44.8	2.9	.1	•		100.0		100.0	100.0	100.0	100.0

ANNUAL

PERIOD: (PRIMARY) 1949-1979
(OVER-ALL) 1857-1979

AREA 0011 PUNTA BURICA
7.6% 83.0%

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
00103	5.7	11.6	65.8	17.4	.4	*	.0	7.4	100.0	23863
04109	12.0	11.6	60.1	15.7	.4	*	.0	6.7	100.0	21104
12115	9.0	12.9	60.7	17.0	.4	*	.0	7.0	100.0	24321
16121	8.2	14.6	61.4	15.4	.4	*	.0	6.8	100.0	30167
TOT								7.0		99455
PCT	8.6	12.9	61.8	16.3	.4	*	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.7	1.0	1.3	.8		5.0
NE	2.1	1.0	1.2	.6		4.9
E	1.3	.9	1.5	.9		5.1
SE	.9	1.0	2.3	1.3		5.4
S	1.2	1.6	4.9	3.6		5.7
SW	1.9	2.8	9.7	7.9		5.7
W	3.7	4.7	12.1	8.2		5.4
NW	1.7	1.9	3.5	2.1		5.3
VAR	.0	.0	.0	.0		.0
CALM	2.4	2.0	3.0	1.3		4.7
TOT OBS					69309	5.4
TOT PCT	16.8	17.0	39.5	26.7	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	WW <5/8 ANY HGT	TOTAL OBS
N	*	*	.1	.3	.4	.2	.1	*	*	*	3.6	
NE	*	*	.1	.2	.4	.2	.1	*	*	*	4.0	
E	*	*	.1	.4	.5	.2	.1	*	*	*	3.3	
SE	*	*	.2	.6	.7	.3	.1	*	*	*	3.4	
S	.1	.1	.4	1.5	1.8	.7	.3	.1	*	*	6.1	
SW	.3	.2	1.0	3.5	4.0	1.3	.5	.1	.1	.1	11.3	
W	.4	.2	1.0	3.7	4.5	1.6	.6	.2	.1	.1	16.3	
NW	.1	.1	.2	1.0	1.2	.5	.2	.1	*	*	5.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	*	.1	.6	.8	.3	.1	*	*	*	6.5	
TOT PCT	1.1	.7	3.3	11.9	14.3	5.3	2.0	.4	.3	.3	60.4	69309
												100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >5040	= OR >0
= OR >6500	.5	.6	.6	.6	.6	.6	.6	.6
= OR >5000	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
= OR >3500	2.6	3.0	3.1	3.1	3.1	3.1	3.1	3.1
= OR >2000	7.0	8.1	8.3	8.3	8.4	8.4	8.4	8.4
= OR >1000	18.5	21.9	22.5	22.6	22.6	22.7	22.7	22.7
= OR >600	26.8	33.0	34.1	34.4	34.4	34.5	34.5	34.5
= OR >300	28.5	35.7	37.3	37.5	37.6	37.7	37.7	37.7
= OR >150	28.8	36.3	37.9	38.2	38.3	38.3	38.4	38.4
= OR > 0	29.1	36.9	38.8	39.1	39.3	39.4	39.4	39.5

TOTAL NUMBER OF OBS: 71260 PCT FREQ WW <5/8: 60.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
6.9	10.8	15.0	19.7	12.8	8.0	9.5	7.7	13.2	.4	75576

PERIOD: (PRIMARY) 1969-1979
(OVER-ALL) 1957-1979

AREA CO11 PUNTA BUNICA
7.6N 83.0W

TABLE 8

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

VSBY (NMI)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	*	*	*	*	*	*	*	.0	*	.1	
	NO PCP	*	*	*	*	*	*	*	*	.0	*	.1	
	TOT %	*	*	*	*	*	.1	.1	*	.0	*	.2	
1/2<1	PCP	*	*	*	*	*	*	*	*	.0	*	.1	
	NO PCP	*	*	*	*	*	*	*	*	.0	*	.1	
	TOT %	*	*	*	*	*	.1	.1	*	.0	*	.2	
1<2	PCP	*	*	*	*	.1	.1	.1	*	.0	*	.4	
	NO PCP	*	*	*	*	*	*	*	*	.0	*	.2	
	TOT %	*	*	*	*	.1	.2	.2	*	.0	*	.6	
2<5	PCP	.1	*	.1	.1	.2	.5	.4	.1	.0	*	1.5	
	NO PCP	*	*	*	*	.1	.2	.3	.1	.0	*	.9	
	TOT %	.1	.1	.1	.1	.3	.7	.7	.2	.0	.1	2.4	
5<10	PCP	.1	.1	.1	.2	.5	1.4	1.3	.4	.0	.1	4.2	
	NO PCP	.4	.4	.4	.6	1.2	2.3	2.4	.8	.0	.5	9.0	
	TOT %	.5	.5	.5	.8	1.7	3.7	3.7	1.1	.0	.6	13.2	
10+	PCP	.1	.1	.1	.2	.5	1.2	1.2	.3	.0	.2	3.9	
	NO PCP	4.2	4.4	4.0	4.4	8.6	16.6	22.4	7.4	.0	7.3	79.5	
	TOT %	4.3	4.5	4.1	4.6	9.1	17.7	23.6	8.0	.0	7.5	83.4	
	TOT OBS												45967
	TOT PCT	4.8	5.1	4.7	5.5	11.2	22.5	28.4	9.4	.0	8.2	100.0	

TABLE 9

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

VSBY (NMI)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	*	*	*	*	*	.0	.0	*	*	
	4-10	*	*	*	*	*	*	*	*	.0		.1	
	11-21	*	*	*	*	*	*	*	*	.0		.1	
	22+	.0	*	.0	*	*	*	*	.0	.0		*	
	TOT %	*	*	*	*	*	.1	.1	*	.0	*	.3	
1/2<1	0-3	*	*	*	*	*	*	*	*	.0	*	*	
	4-10	*	*	*	*	*	*	*	*	.0		.1	
	11-21	.0	*	*	*	*	*	*	*	.0		.1	
	22+	*	.0	.0	*	*	*	*	.0	.0		*	
	TOT %	*	*	*	*	*	.1	.1	*	.0	*	.2	
1<2	0-3	*	*	*	*	*	*	*	*	.0	*	.1	
	4-10	*	*	*	*	.1	.1	.1	*	.0		.4	
	11-21	*	*	*	*	*	.1	.1	*	.0		.2	
	22+	*	*	.0	*	*	*	*	.0	.0		*	
	TOT %	*	*	*	*	.1	.2	.2	.1	.0	*	.7	
2<5	0-3	*	*	*	*	*	*	*	*	.0	.1	.1	
	4-10	.1	.1	.1	.1	.2	.4	*	.1	.0	*	1.5	
	11-21	*	*	*	*	.1	.3	.3	.1	.0	*	.9	
	22+	*	*	*	.0	*	*	*	*	.0		*	
	TOT %	.1	.1	.1	.1	.4	.8	.8	.2	.0	.1	2.7	
5<10	0-3	.1	.1	.1	.1	.2	.2	.3	.1	.0	.7	1.0	
	4-10	.3	.3	.3	.5	1.1	2.1	2.1	.7	.0		7.4	
	11-21	.1	.1	.1	.1	.6	1.3	1.2	.3	.0		3.6	
	22+	*	*	*	*	*	*	.1	*	.0		.1	
	TOT %	.5	.5	.5	.8	1.7	3.7	3.7	1.1	.0	.7	13.0	
10+	0-3	1.0	.7	.6	1.0	1.7	2.2	2.7	1.1	.0	7.7	18.9	
	4-10	2.7	2.8	2.7	3.2	6.4	12.2	16.6	5.7	.0		52.1	
	11-21	.6	.9	.5	.6	1.0	3.1	4.2	1.1	.0		11.9	
	22+	*	*	*	*	*	*	.1	*	.0		.2	
	TOT %	4.3	4.5	4.0	4.6	9.1	17.6	23.4	7.9	.0	7.7	83.0	
	TOT OBS												99976
	TOT PCT	5.0	5.1	4.7	5.5	11.2	22.4	28.2	9.4	.0	8.5	100.0	

ANNUAL

PERIOD: (PRIMARY) 1965-1979
(OVER-ALL) 1857-1979

AREA 0011 PUNTA BUGICA
7.6N 83.0W

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.8	.5	3.0	11.0	13.8	5.1	2.0	.6	.3	.3	37.4	62.6	19012
06E09	1.4	.5	3.0	12.1	14.5	5.1	1.7	.4	.3	.4	39.4	60.6	14394
12E15	1.2	.9	3.9	12.5	14.0	5.0	1.9	.5	.2	.2	40.4	59.6	18895
18E21	.9	.6	2.9	10.7	13.6	5.3	2.0	.6	.3	.3	37.3	62.7	21402
TOT PCT	1.0	.6	3.2	11.5	13.9	5.1	1.9	.5	.3	.3	38.5	61.5	73703 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.2	.2	.6	2.1	11.6	85.4	22486
06E09	.3	.1	.6	2.6	14.8	81.5	19720
12E15	.3	.3	.9	3.2	13.9	81.3	23081
18E21	.3	.3	.8	2.9	12.1	83.4	27854
TOT PCT	.3	.2	.7	2.7	13.0	83.0	93141 100.0

TABLE 12

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

HOUR (GMT)	<150 <5DYD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.9	4.6	16.5	22.0	61.5	18425
06E09	1.5	5.1	16.8	22.3	58.9	13825
12E15	1.2	6.2	20.1	21.6	58.3	18293
18E21	.9	4.7	16.6	21.9	61.5	20737
TOT PCT	1.1	5.1	17.9	21.9	60.2	71280 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY 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		*
90/94	.0	.0	*	.1	.5	.2	.1	*		.9
85/89	.0	.0	*	.3	2.5	4.9	1.3	.3		9.3
80/84	.0	.0	*	.2	3.6	20.3	28.6	5.8		58.5
75/79	.0	.0	*	*	.1	2.3	14.1	13.8		30.2
70/74	.0	.0	.0	.0	*	*	.1	.9		1.0
65/69	.0	.0	.0	.0	.0	*	*	*		*
TOTAL									75337	100.0
PCT	.0	*	.1	.7	6.7	27.6	44.1	20.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	*	*	*	*	*	*	*	*	.0	*
	.1	.1	.1	.1	.1	.1	.2	.1	.0	.1
	.6	.8	.8	.7	.9	1.3	2.2	.9	.0	1.1
	3.1	3.2	2.9	3.3	6.5	11.8	16.6	5.5	.0	5.7
	1.1	1.0	1.0	1.3	3.7	8.9	9.2	2.5	.0	1.7
	.1	.1	*	.1	.1	.3	.3	.1	.0	*
	.0	*	*	*	*	*	*	.0	.0	.0
	4.9	5.2	4.8	5.4	11.3	22.4	28.4	9.1	.0	8.6

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	96	87	84	81	77	75	66	80.9	24399
06E09	93	85	83	80	77	75	66	80.0	21957
12E15	97	85	83	80	76	74	66	79.8	24956
18E21	99	90	88	82	77	75	65	82.3	30903
TOT	99	88	86	81	77	74	65	80.9	102215

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.4	5.0	29.2	47.2	18.3	83	19624
06E09	.0	.2	2.8	21.9	50.5	24.6	84	16270
12E15	.0	.2	3.4	21.1	48.2	27.0	85	19867
18E21	.0	1.9	13.7	36.1	33.4	14.8	79	22477
TOT	0	557	4990	21198	34868	16625	83	78238

PERIOD: (PRIMARY) 1949-1979
(OVER-ALL) 1857-1979

AREA 0011 PUNTA BUPICA
7.6N 82.0W

TABLE 17

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

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
20/22	.0	.0	.0	.0	.0	*	.0	.0	1	.0	*
17/19	.0	.0	.0	.0	*	*	*	.0	7	.0	*
14/16	.0	.0	.0	*	*	*	*	*	34	.0	*
11/13	.0	.0	.0	*	.1	.1	.1	*	162	*	.2
9/10	.0	.0	.0	*	.1	.1	.1	*	289	*	.4
7/8	.0	.0	*	.1	.2	.3	.3	*	711	*	.9
6	.0	.0	*	.1	.2	.4	.2	*	632	*	.8
5	.0	.0	*	.1	.4	.7	.2	*	1110	*	1.4
4	.0	.0	*	.2	.8	1.0	.2	*	1793	*	2.2
3	.0	.0	*	.2	.9	1.1	.1	*	1858	*	2.3
2	*	*	*	.5	2.9	1.5	.1	.0	3940	*	4.9
1	*	*	*	.8	3.6	1.2	*	.0	4500	*	5.6
0	*	*	.1	3.0	7.9	1.2	*	.0	9800	.1	12.2
-1	*	*	.1	4.3	7.6	.7	*	.0	10204	.1	12.6
-2	*	*	.3	7.7	8.5	.4	*	.0	13639	*	16.9
-3	.0	*	.4	7.0	5.0	.2	*	.0	10213	*	12.6
-4	.0	*	.8	6.6	3.3	.1	*	.0	8742	*	10.8
-5	.0	*	.9	4.6	1.7	*	.0	.0	5886	*	7.2
-6	.0	*	.9	2.4	.5	*	.0	.0	3136	*	3.6
-7/-8	*	*	1.3	1.8	.4	*	.0	.0	2869	*	3.5
-9/-10	*	.1	.5	.4	.1	*	.0	.0	850	*	1.0
-11/-13	*	*	.2	.1	*	.0	.0	.0	266	*	.3
-14/-16	*	*	*	*	*	.0	.0	.0	38	.0	*
-17/-19	*	*	*	.0	.0	.0	.0	.0	6	.0	*
TOTAL									80686		
PCT	*	.2	5.4	40.0	44.1	8.9	1.3	.1	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.7	*	.0	.0	.0	1.3
1-2	.3	1.5	.2	.0	.0	.0	2.0
3-4	*	.6	.3	*	.0	.0	.9
5-6	*	.1	.1	*	.0	.0	.2
7	.0	*	*	.0	.0	.0	*
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	*	.0	.0	.0	*
12	.0	.0	*	.0	.0	.0	*
13-16	.0	.0	.0	*	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	2.8	.6	*	.0	.0	4.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.6	*	*	.0	.0	1.1
1-2	.2	1.6	.3	.0	.0	.0	2.4
3-4	*	.6	.6	*	.0	.0	1.3
5-6	*	.1	.3	*	.0	.0	.4
7	.0	*	.1	*	.0	.0	.1
8-9	.0	.0	*	*	.0	.0	*
10-11	.0	.0	*	.0	.0	.0	*
12	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	.0	*	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	3.2	1.3	.1	.0	.0	5.2

C

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

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.9	*	.0	.0	.0	1.4
1-2	.3	2.0	.3	.0	.0	.0	2.6
3-4	*	.6	.2	*	.0	.0	.8
5-6	*	.1	.1	*	.0	.0	.2
7	.0	*	*	*	.0	.0	*
8-9	.0	*	*	*	.0	.0	*
10-11	.0	.0	.0	*	.0	.0	*
12	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	3.6	.6	*	.0	.0	5.1

PERIOD: (OVER-ALL) 1963-1979 ANNUAL AREA 0011 PUNTA BURICA
TABLE 18 (CONT) 7.6N 83.0W

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	1.8	.1	.0	.0	.0	2.6	1.1	2.8	.1	.0	.0	.0	4.0
1-2	.6	4.2	.4	.0	.0	.0	5.3	.7	8.5	1.4	.0	.0	.0	10.6
3-4	.1	1.6	.6	*	.0	.0	2.4	.1	3.3	2.3	*	.0	.0	5.7
5-6	*	.4	.4	*	*	.0	.8	*	.6	1.4	*	*	.0	2.2
7	.0	.1	.1	*	.0	.0	.2	.0	.1	.3	*	.0	.0	.4
8-9	.0	*	*	*	.0	.0	*	.0	*	.1	*	.0	.0	.1
10-11	.0	.0	*	.0	.0	.0	*	.0	.0	*	*	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	8.1	1.6	.1	*	.0	11.3	1.9	15.6	5.5	.1	*	.0	23.1

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	1.2	3.9	.1	.0	.0	.0	5.2	.5	1.4	.1	.0	.0	.0	1.9	
1-2	1.0	11.1	1.8	.0	.0	.0	13.9	.3	3.8	.6	.0	.0	.0	4.8	
3-4	.1	4.3	2.8	*	.0	.0	7.3	*	1.3	.6	*	.0	.0	1.9	
5-6	*	.7	1.4	*	*	.0	2.2	*	.2	.1	*	.0	.0	.5	
7	.0	.1	.4	*	.0	.0	.5	.0	*	*	*	.0	.0	.1	
8-9	.0	.0	.1	*	.0	.0	.1	.0	*	*	*	.0	.0	*	
10-11	.0	.0	*	*	.0	.0	*	.0	.0	*	*	.0	.0	*	
12	.0	.0	*	*	.0	.0	*	.0	.0	*	*	.0	.0	*	
13-16	.0	.0	*	*	.0	.0	*	.0	.0	*	*	.0	.0	*	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.3	20.2	6.6	.1	*	.0	29.2	.9	6.7	1.7	*	.0	.0	9.2	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	14.5	12.9	.4	*	.0	.0	27.8	
1-2	4.4	34.0	5.1	.0	.0	.0	43.4	
3-4	.6	12.3	7.5	.1	.0	.0	20.5	
5-6	.1	2.3	3.9	.2	*	.0	6.5	
7	.0	.3	.9	.1	.0	.0	1.3	
8-9	.0	.1	.1	*	.0	.0	.3	
10-11	.0	.0	*	*	.0	.0	.1	
12	.0	.0	*	*	.0	.0	.1	
13-16	.0	.0	*	*	.0	.0	*	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								22541
TOT PCT	19.6	62.0	18.0	.5	*	.0	100.0	

PERIOD: (OVER-ALL) 1949-1979 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	8.0	20.8	16.5	5.5	1.5	.4	.1	*	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	33019	3
6-7	.2	2.8	7.5	5.7	2.0	.5	.2	.1	*	*	*	*	.0	.0	.0	.0	.0	.0	.0	12234	4
8-9	.1	1.0	2.6	2.3	1.2	.4	.2	*	*	*	.0	*	.0	.0	.0	.0	.0	.0	.0	4969	5
10-11	.0	.4	1.2	.8	.4	.2	.1	*	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	2246	4
12-13	.0	.0	.4	.5	.2	.1	*	*	*	*	.0	*	.0	.0	.0	.0	.0	.0	.0	1064	5
>13	.0	*	*	.4	.2	.1	*	*	*	.0	*	*	.0	.0	.0	.0	.0	.0	.0	481	6
INDET	8.9	1.9	2.1	.9	.2	.1	*	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	8708	1
TOTAL																				62721	3
PCT	17.1	27.5	30.7	16.1	5.7	1.7	.7	.2	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1949-1979
(OVER-ALL) 1857-1979

TABLE 2G

AREA 0011 PUNTA BURICA
7.6N 83.0W

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

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	*	*	*	*	*	.0	.0	.0	.0	.0	.0	.0	9	*
93/94	.1	*	.1	.1	*	*	*	.0	.0	.0	.0	.0	23	*
91/92	.1	.1	.4	.4	.1	.1	.1	.1	.1	*	.0	.0	105	.1
89/90	.5	1.1	1.5	1.7	1.2	.4	.4	.4	.2	.1	.1	.3	616	.7
87/88	2.2	5.0	7.9	9.9	5.7	2.4	1.6	1.4	1.3	1.0	.5	1.0	3131	3.3
85/86	13.2	19.6	27.'	29.0	22.3	11.7	9.7	10.8	8.7	5.3	3.6	7.1	13206	14.0
83/84	31.9	31.3	29.5	31.3	34.8	31.6	31.2	28.4	27.6	19.6	18.9	26.3	26636	28.5
81/82	35.2	27.8	19.9	18.0	28.1	39.7	41.7	42.8	40.7	39.9	40.4	43.7	32848	34.9
79/80	12.6	9.8	6.9	5.8	6.3	11.8	12.5	13.4	17.0	25.5	26.5	16.7	12936	13.7
77/78	2.9	3.1	3.4	2.1	.8	1.6	1.9	1.8	3.2	6.5	7.7	3.9	3041	3.2
75/76	.7	1.3	1.5	.9	.4	.3	.5	.4	.6	1.4	1.7	.7	603	.9
73/74	.3	.4	.7	.4	.1	.2	.2	.4	.4	.3	.5	.2	335	.4
71/72	.1	.3	.4	.2	.1	.1	*	*	.1	.1	.1	*	109	.1
69/70	.1	.1	.2	.1	*	*	*	*	*	.2	*	.1	64	.1
67/68	*	.1	.1	.1	*	*	.0	*	*	.1	*	*	36	*
65/66	.0	.0	.1	*	.0	.0	.0	*	.0	.0	.0	.0	7	*
63/64	.0	.0	*	.0	.0	.0	.0	*	.0	.0	.0	.0	2	*
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	7201	6984	7961	7811	8323	7880	7867	8305	8543	8000	7680	7534	94109	100.0
MEAN	82.4	82.9	83.4	83.8	83.4	82.5	82.3	82.2	82.0	81.3	81.1	81.9	82.4	

TABLE 2I

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1009	1011	1010	1009	1010	1011	1011	1009	1010	7103
FEB	1009	1011	1010	1009	1010	1011	1011	1009	1010	7034
MAR	1009	1010	1010	1009	1010	1011	1011	1009	1010	7944
APR	1009	1010	1010	1009	1010	1011	1011	1009	1010	7960
MAY	1010	1010	1011	1009	1010	1011	1011	1009	1010	8404
JUN	1010	1010	1011	1010	1011	1011	1011	1010	1011	7820
JUL	1010	1011	1011	1009	1011	1011	1011	1010	1011	8065
AUG	1010	1011	1011	1010	1011	1011	1011	1009	1011	8409
SEP	1010	1011	1011	1010	1011	1012	1011	1010	1011	8547
OCT	1010	1011	1011	1009	1011	1011	1011	1009	1011	8185
NOV	1010	1011	1011	1009	1011	1011	1011	1009	1010	7697
DEC	1010	1011	1011	1009	1010	1011	1011	1009	1010	7722
ANN	1010	1011	1011	1009	1011	1011	1011	1009	1010	94890
OBS	21926	963	17986	2020	21735	1796	26083	2381		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	997	1003	1006	1009	1010	1011	1013	1015	1023
FEB	998	1004	1006	1009	1010	1011	1014	1015	1023
MAR	997	1003	1006	1009	1010	1011	1013	1015	1022
APR	997	1004	1007	1009	1010	1011	1013	1015	1023
MAY	998	1004	1007	1009	1010	1012	1013	1015	1024
JUN	1001	1006	1008	1010	1011	1012	1014	1015	1022
JUL	998	1004	1008	1010	1011	1012	1014	1015	1021
AUG	998	1004	1008	1010	1011	1012	1014	1015	1021
SEP	997	1005	1008	1010	1011	1012	1013	1015	1024
OCT	1000	1005	1008	1010	1011	1312	1013	1015	1025
NOV	997	1005	1007	1009	1011	1012	1013	1015	1023
DEC	997	1004	1007	1009	1010	1012	1014	1016	1023

USCOMM - NOAA - ASHEVILLE, N.C. 2/81/100

Volume	Area	Name	Approximate Central Location	
1	1	Central Baja West	26.6 N	115.7 W
	2	Southwest Baja	22.6 N	112.1 W
	3	Gulf Of California	26.0 N	110.2 W
	4	Mazatlan	22.8 N	107.4 W
	5	Puerto Vallarta	20.0 N	107.8 W
2	6	Manzanillo SE	16.9 N	103.2 W
	7	Acapulco South	14.7 N	99.1 W
	8	Gulf Of Tehuantepec	14.0 N	95.0 W
	9	Guatemala SW Coast	12.3 N	91.4 W
	10	Nicaragua SW Coast	9.8 N	87.0 W
	11	Punta Burica	7.5 N	83.5 W