

U. S. NAVAL WEATHER SERVICE COMMAND

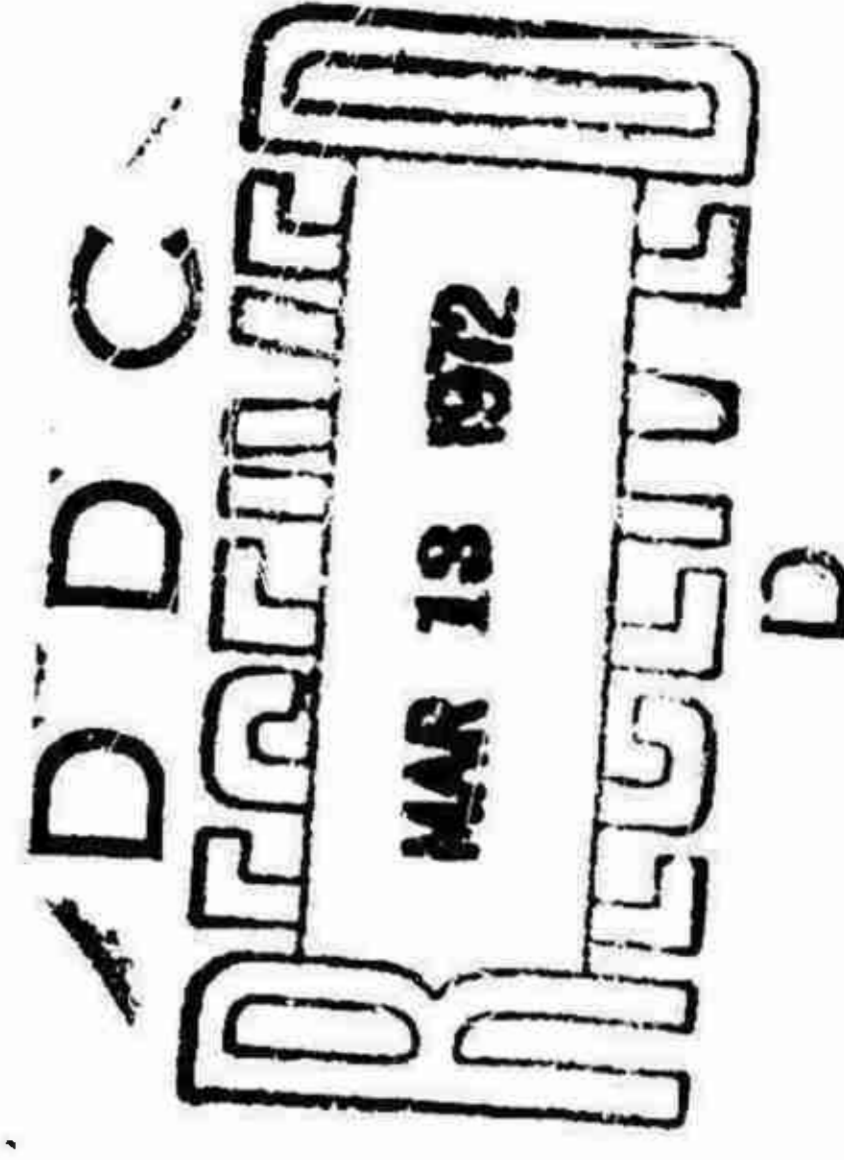
SUMMARY OF  
SYNOPTIC METEOROLOGICAL OBSERVATIONS

SOUTHWEST ASIAN COASTAL MARINE AREAS

AD 737909

VOLUME 6

- AREA 21 - S. GULF OF OMAN
- AREA 22 - S.E. PERSIAN GULF
- AREA 23 - N.E. PERSIAN GULF
- AREA 24 - N.W. PERSIAN GULF



## SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (MONTHLY AND ANNUAL)

The data contained in these tables were obtained from tape data Family 11 (TDF-11), Marine Surface Observations. TDF-11 was primarily funded by the Naval Weather Service Command and selected by NWSEL, Asheville as the most comprehensive collection of marine surface observations from which to develop a series of coastal marine summaries. The source was punched cards of weather observations taken aboard vessels of varying registry. They were recorded on magnetic tape in a common format. Elements not in WMO code were converted to this code where possible. Where this was not possible, the original data were retained within the tape record as supplemental data. A very limited quality control was attempted as the punched cards were converted to tape 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 conservative since the only available record of many observations is the punched card from which the tape records were prepared. Presently there is no concrete evidence to prove or disprove the validity of questionable data.

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

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

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

### THE TABLES

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

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

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

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

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

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

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

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

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

Table 5 - Percentage Frequency of Total Cloud Amount (Okts) 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. This table continues for 2-1/2 pages for each month and 2-1/2 pages for the annual summary.

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.

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

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

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

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DIRECTION AND WEATHER CODES

VISIBILITY (VV) INTERPRETATION (NAUTICAL MILES)		PRESENT WEATHER (1960 WMO CODE 4677)		
CODE	INTERPRETATION	CODE	INTERPRETATION	INTERPRETATION
90-93	VV<1/2	58-59 60-65 91-94 (68-69, 95, 97 IF TEMP > 40°F)	13, 17 95-99	THUNDER LIGHTNING THUNDERSTORM
94	1/2 ≤ VV < 1	80-82, (83-84 IF TEMP > 40°F)	10-12 40-49	FOG (WITHOUT PRECIPITATION)
95	1 ≤ VV < 2	30-35, 58-59	04-03	SMOKE HAZE
96	2 ≤ VV < 5	56-57 66-67	06-09 30-39	DUST BLOWING DUST BLOWING SNOW
97	5 ≤ VV < 10	70-75, 85-86, (66-69, 83-84, 95, 97 IF TEMP ≤ 40°F)	00-03 14-16 18-39	NO SIGNIFICANT WEATHER AT OB TIME
98	10 ≤ VV < 25	76-79	00-49	NO PRECIPITATION AT OB TIME
99	≥ 25	87-90 93-94 96, 99	50-99	PRECIPITATION AT OB TIME

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 (storm and thunder/lightning/thunderstorm), or (rain and thunder/lightning/thunderstorm).

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 fractional 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 superimposed on the 4 point system.

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



Fig 3 The 16 point direction system superimposed on the 8 point system.

Fig 4 The 16 point direction system superimposed on the 4 point system.

WAVE HEIGHT (from source decks 128 and 116)

RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)	RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)	RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)
00	≤.25}	<1	12	>5.75 to 6.25}	20-22	30	>14.75 to 15.25	
01	>.25 to .75}	1-2	13	>6.25 to 6.75}		31	>15.25 to 15.75	
02	>.75 to 1.25}	3-4	14	>6.75 to 7.25}	23-25	32	>15.75 to 16.25	42-60
03	>1.25 to 1.75}	5-6	15	>7.25 to 7.75}		33	>16.25 to 16.75	
04	>1.75 to 2.25}	7	16	>7.75 to 8.25}		34	>16.75 to 17.25	
05	>2.25 to 2.75}	8-9	17	>8.25 to 8.75}	26-32	35	>17.25 to 17.75	
06	>2.75 to 3.25}	10-11	18	>8.75 to 9.25}		36	>17.75 to 18.25	
07	>3.25 to 3.75}	12	19	>9.25 to 9.75}		37	>18.25 to 18.75	
08	>3.75 to 4.25}	13-16	20	>9.75 to 10.25}		38	>18.75 to 19.25	
09	>4.25 to 4.75}		21	>10.25 to 10.75}	33-40	39	>19.25 to 19.75	61-70
10	>4.75 to 5.25}	17-19	22	>10.75 to 11.25}		40	>19.75 to 20.25	
11	>5.25 to 5.75}		23	>11.25 to 11.75}		41	>20.25 to 20.75	
			24	>11.75 to 12.25}		42	>20.75 to 21.25	
			25	>12.25 to 12.75}		43	>21.25 to 21.75	71-86
			26	>12.75 to 13.25}		44	>21.75 to 22.25	
			27	>13.25 to 13.75}	41-48	45	>22.25 to 22.75	
			28	>13.75 to 14.25}		46	>22.75 to 23.25	
			29	>14.25 to 14.75}		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) 1951-1971  
(OVER-ALL) 1966-1971

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN		RAIN SHHR		DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN DBS	THOR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
	SHHR	SHHR	FRZG PCPN	SNOW		OTHER PCPN	FOG	SMOKE					DUST	NO	BLWG	OUST	
N	.2	.2	.0	.0	.0	.0	.0	.0	.0	.4	3	.0	.1	.4	16.5	140	
NE	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4	3	.0	.4	.0	9.9	87	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.1	.1	.0	10.1	84	
SE	.*	.0	.0	.0	.0	.0	.0	.0	.0	.*	0	.2	.0	.0	15.2	125	
S	.1	.0	.1	.0	.0	.0	.0	.0	.0	.2	1	.2	.0	.0	8.6	72	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	2.8	22	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.1	.1	3.9	33	
NW	.1	.*	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.2	.4	15.5	132	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	13.7	111	
TOT OBS	.6	.2	.1	.0	.0	.0	.0	.0	.0	.3	9	.5	.7	.7	77.9	609	
TOT PCT	.7	.2	.1	.0	.0	.0	.0	.0	.0	1.1		.6	.9	.5	96.3	100.0	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN		RAIN SHHR		DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN DBS	THOR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
	SHHR	SHHR	FRZG PCPN	SNOW		OTHER PCPN	FOG	SMOKE					DUST	NO	BLWG	OUST	
0000	.5	.5	.0	.0	.0	.0	.0	.0	.0	.9	2	.9	.5	.0	97.7	221	
0600	1.3	.4	.0	.0	.0	.0	.0	.0	.0	1.7	4	.0	.4	.9	95.2	235	
1200	.5	.0	.0	.0	.0	.0	.0	.0	.0	.5	1	.5	1.8	1.8	99.0	219	
1800	.5	.0	.5	.0	.0	.0	.0	.0	.0	1.0	2	1.0	.5	.5	96.9	192	
TOT	.6	.2	.1	.0	.0	.0	.0	.0	.0	4	9	.5	.7	.7	83.6	667	
PCT	.7	.2	.1	.0	.0	.0	.0	.0	.0	1.0		.6	.8	.8	96.4	100.0	

JANUARY

PERIOD: (PRIMARY) 1951-1971  
(OVER-ALL) 1866-1971

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 3  
PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)											
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPO	00	03	06	09	12	15	18	21					
N	2.5	9.8	4.6	.5	.0	.1	162	17.6	9.5	14.5	23.8	14.2	24.1	18.6	19.0	21.0	25.0					
NE	1.8	7.8	1.2	.1	.0	.0	101	11.0	7.2	19.6	9.5	9.0	13.0	12.6	21.4	12.2	7.0					
E	2.1	7.1	1.2	.0	.0	.0	96	10.4	6.3	10.7	7.1	6.8	11.1	13.0	14.3	11.7	4.0					
SE	.9	10.4	4.0	.4	.0	.0	145	15.7	9.1	14.4	14.3	14.0	16.7	19.1	31.0	14.4	9.0					
S	1.3	4.7	2.6	.1	.0	.0	80	8.7	9.0	7.6	13.1	10.1	5.6	8.2	4.8	9.3	9.0					
SW	.7	1.8	.5	.0	.0	.0	28	3.0	6.7	3.2	1.2	4.5	11.1	2.2	.0	.6	10.0					
W	1.0	2.3	.8	.2	.0	.0	39	4.2	7.8	3.7	4.8	8.0	5.6	1.9	.0	3.6	4.0					
NW	2.2	7.6	5.3	1.0	.0	.0	148	16.1	10.0	16.2	11.9	19.0	13.0	17.6	.0	13.5	16.0					
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
CALM	13.3	477	187	21	0	1	123	13.3	7.4	20.1	14.3	14.4	.0	6.8	9.5	13.8	16.0					
TOT OBS	238						924			214	21	216	27	219	21	181	25					
TOT PCT	25.8	51.6	20.2	2.3	.0	.1	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0					

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)											
	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPO	00	03	06	09	12	15	18	21						
N	7.4	7.9	1.7	.4	.1	162	17.6	9.5	15.3	15.3	15.3	15.3	15.6	21.5								
NE	5.5	4.9	.5	.0	.0	101	11.0	7.2	9.6	9.6	9.5	9.5	13.5	11.5								
E	6.6	3.6	.2	.0	.0	96	10.4	6.3	10.4	10.4	7.3	13.1	10.8	10.8								
SE	5.5	9.1	.9	.1	.0	145	15.7	9.1	14.4	14.4	14.3	20.1	13.7	13.7								
S	3.4	4.5	.8	.0	.0	80	8.7	9.0	8.1	9.6	9.6	7.9	9.2									
SW	1.7	1.4	.0	.0	.0	28	3.0	6.7	3.0	5.2	2.0	1.7										
W	2.2	1.6	.4	.0	.0	39	4.3	7.8	3.8	7.7	1.8	3.5										
NW	5.7	8.0	2.4	.1	.0	148	16.1	10.0	13.9	13.9	13.1	16.0	13.8									
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0								
CALM	13.3					123	13.3	7.4	19.6	12.8	7.1	14.1										
TOT OBS	475	379	64	5	1	924		7.4	235	243	242	206										
TOT PCT	51.4	41.0	6.9	.5	.1	100.0			100.0	100.0	100.0	100.0										

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33			
0603	19.6	13.6	47.2	18.7	.9	.0	6.7	235
0609	12.8	15.6	50.2	19.3	1.6	.0	7.2	243
1215	7.1	10.0	55.4	23.8	3.8	.0	8.3	240
1821	14.1	10.2	53.9	16.9	2.9	.0	7.6	206
TOT	123	115	477	167	21	0	7.4	924
PCT	13.3	12.4	51.6	20.2	2.3	.0	1	100.0

TABLE 5

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

WIND DIR	PCT FREQ				TOTAL OBS	MEAN CLOUD COVER
	3-4	5-7	8 &	OBSCO		
N	11.2	2.4	2.1	1.3	123	2.2
NE	7.2	1.3	1.5	.7	77	2.1
E	5.6	2.3	1.8	.0	77	2.0
SE	10.4	2.2	1.4	1.0	109	1.9
S	6.7	1.1	.9	.2	64	1.6
SW	2.3	.3	.6	.0	22	1.3
W	3.6	.4	.6	.0	33	1.2
NW	11.1	2.1	2.5	.8	118	2.0
VAR	.0	.0	.0	.0	0	.0
CALM	10.5	1.4	1.7	.0	98	1.3
TOT OBS	1504	192	229	723	723	1.8
TOT PCT	69.7	13.6	12.7	4.0	100.0	

TABLE 6

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

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8										TOTAL OBS			
	000	149	150	299	300	599	600	1000	1999	3499				
N	.0	.0	.0	.0	.1	.5	.9	.5	.4	.0	.0	.1	14.5	123
NE	.0	.0	.0	.0	.1	.4	.1	.6	.0	.0	.0	.1	9.5	77
E	.0	.0	.0	.0	.0	.0	.1	.4	.3	.0	.0	.1	9.8	77
SE	.0	.0	.0	.0	.1	.1	.1	.4	.1	.0	.0	.1	14.1	109
S	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	8.5	64
SW	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	2.8	22
W	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	4.1	33
NW	.0	.0	.0	.0	.0	.5	.3	.8	.3	.1	.0	.0	14.1	118
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.3	.3	.4	.3	.0	.0	.0	12.3	98
TOT OBS	1504	192	229	723	723	10	2	1	3	648	723	1	89.6	100.0
TOT PCT	69.7	13.6	12.7	4.0	100.0									



PERIOD: (PRIMARY) 1951-1971  
(OVER-ALL) 1966-1971

JANUARY

ARE# 0031 S. GULF OF OMAN  
23.1N 59.3E

TABLE 7

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

CEILING (FEET)	VSBY (NM)								CR
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>30	
OR >6500	.7	.7	.7	.7	.7	.7	.7	.7	.7
OR >5000	.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
OR >3500	2.2	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5
OR >2000	5.6	6.2	6.3	6.3	6.3	6.3	6.3	6.3	6.3
OR >1000	7.9	8.6	8.8	8.8	8.8	8.8	8.8	8.8	8.8
OR >500	8.9	10.1	10.3	10.3	10.3	10.3	10.3	10.3	10.3
OR >300	9.7	11.0	11.3	11.3	11.4	11.4	11.4	11.4	11.4
OR >150	9.7	11.0	11.3	11.3	11.4	11.4	11.4	11.4	11.4
OR > 0	9.7	11.0	11.3	11.3	11.4	11.4	11.4	11.4	11.4
TOTAL	76	74	86	86	87	87	87	87	87

TOTAL NUMBER OF OBS: 764

PCT FREQ NH <5/8: 88.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL
	47.9	18.2	11.3	6.8	4.2	3.6	3.2	2.2	2.6	.0
										812

PERIOD: (PRIMARY) 1951-1971  
(OVER-ALL) 1866-1971

JANUARY

AREA 0021, S. GULF OF OMAN  
23.1N 59.3E

TABLE 8

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

VSBY (MM)	PCP NO PCP TOT %	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	.0 NO PCP TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	.1 NO PCP TOT %	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
1<2	.0 NO PCP TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	.0 NO PCP TOT %	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
5<10	.2 NO PCP TOT %	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
10+	.1 NO PCP TOT %	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
TOT OBS		17.3	10.9	10.3	15.5	8.9	2.8	4.2	16.4	.0	13.8	100.0	807

PERIOD: (PRIMARY) 1951-1971  
(OVER-ALL) 1956-1971

JANUARY

AREA 0021 S. GULF OF OMAN  
25.1N 59.3E

TABLE 9

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

VSBY (M)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
TOT %	.2	.2	.0	.0	.1	.0	.0	.0	.0	.0	.6	1.0	
>10	0-3	.0	.0	.4	.1	.1	.2	.2	.2	.0	.6	1.4	1.4
	4-10	.9	1.1	.6	.7	.4	.4	.4	.8	.0	.0	4.9	4.9
	11-21	.3	.2	.0	.2	.3	.0	.1	.2	.0	.0	1.3	1.3
	22+	.2	.1	.0	.2	.0	.0	.0	.0	.0	.0	.6	.6
TOT %	1.4	1.4	.7	1.2	.7	.7	.7	1.2	.0	.0	6.2	6.2	
10+	0-3	2.2	1.7	2.0	.9	1.3	.5	.8	2.0	.0	12.5	23.9	23.9
	4-10	8.7	6.5	2.0	10.0	4.8	1.2	2.0	6.7	.0	.0	46.6	46.6
	11-21	4.2	1.1	1.2	3.9	2.2	.6	.5	4.9	.0	.0	18.5	18.5
	22+	.5	.0	.0	.1	.0	.0	.1	1.0	.0	.0	1.7	1.7
TOT %	15.5	9.3	9.9	14.6	8.3	2.3	3.4	14.6	.0	.0	90.7	90.7	
TOT OBS												903	
TOT PCT		17.2	10.3	10.5	16.0	8.8	3.0	4.3	16.1	.0	13.1	100.0	

JANUARY

PERIOD: (PRIMARY) 1951-1971  
(OVER-ALL) 1866-1971

AREA 0021 S. GULF OF OMAN  
23.1N 59.2E

TABLE 10

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

HOUR (GMT)	000	100	200	300	400	500	600	700	800+	TOTAL	NH <5/8 ANY HGT	TOTAL
	149	599	1999	3499	4999	6499	7999	8999	9999	10999	11999	12999
00003	.0	.0	1.0	1.9	2.9	3.4	1.4	.0	.5	.0	11.1	88.9
06009	.0	.0	1.3	1.3	3.1	3.6	.0	.9	.0	.4	10.7	89.3
12015	.0	.0	.5	.0	.0	2.6	2.1	.0	.0	1.0	7.2	92.8
18021	.0	.0	.6	2.2	3.3	3.0	2.2	.6	.0	.6	14.4	85.6
TOT	.0	.0	.7	1.3	1.9	2.9	1.1	.3	.1	.4	8.7	71.8
PCT	.0	.0	.9	1.6	2.4	3.6	1.4	.4	.1	.5	10.8	89.2
												100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
	00003	06009	12015	18021	TOT	PCT	100.0
00003	.0	.5	.0	.0	6.7	92.8	194
06009	.0	.0	.0	.5	6.6	92.9	212
12015	.0	.0	.0	1.6	6.0	92.3	183
18021	.0	.0	.0	1.1	9.1	89.7	175
TOT	.0	.1	.0	.6	54	703	764
PCT	.0	.1	.0	.8	7.1	92.0	100.0

TABLE 12

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

HOUR (GMT)	<150	<600	<1000	1000+	NH <5/8	TOTAL
	<5000	<1	<5	AND 5+	AND 5+	OBS
00003	.0	1.5	3.1	8.8	88.1	194
06009	.0	1.4	3.2	8.5	88.2	212
12015	.0	.5	2.7	6.0	91.3	183
18021	.0	.6	4.0	11.4	84.6	175
TOT	.0	.8	2.5	6.5	67.3	764
PCT	.0	1.0	3.3	8.6	88.1	100.0

JANUARY

PERIOD: (PRIMARY) 1951-1971  
(OVER-ALL) 1866-1971

AREA: 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100				
85/89	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	2	.3
80/84	.0	.0	.0	.6	.8	.5	.2	.0	.0	.0	13	2.0
75/79	.0	.0	.5	4.1	6.3	6.1	3.1	1.4	.0	.0	142	21.7
70/74	.0	.0	1.5	6.1	18.3	17.4	12.4	3.7	.0	.0	389	59.5
65/69	.0	.0	.6	3.2	4.1	3.7	12.1	1.8	.0	.0	102	15.5
50/54	.0	.0	.0	.3	.5	.0	.0	.2	.0	.0	6	.9
TOTAL	.0	.0	19	94	198	151	116	46	.0	.0	624	100.0
PCT	.0	.0	2.9	14.4	30.3	27.7	17.7	7.0	.0	.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP												
NE	E	SE	S	SW	W	NW	VAR	CALM				
.0	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
.2	.2	.5	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0
.8	2.5	3.7	3.6	1.2	1.3	3.1	.0	2.3	.0	.0	.0	.0
7.6	6.2	10.8	4.6	1.9	2.1	9.3	.0	8.0	.0	.0	.0	.0
2.3	1.3	.6	.8	.8	.8	3.7	.0	1.8	.0	.0	.0	.0
.2	.0	.0	.0	.0	.1	.4	.0	.0	.0	.0	.0	.0
7.1	6.6	10.2	1.1	2.1	2.8	10.9	.0	8.0	.0	.0	.0	.0
10.9	10.2	15.7	9.4	3.2	4.3	16.7	.0	12.2	.0	.0	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEC F) BY HOUR	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										
	MAX	95%	95%	50%	50%	25%	25%	1%	MIN	MEAN	TOTAL OBS
85/89	78	77	75	71	67	65	65	65	65	71.0	234
80/84	84	83	80	74	68	65	61	61	73.8	237	
75/79	85	84	80	74	68	64	62	62	74.0	245	
70/74	81	78	76	72	66	62	61	61	71.3	213	
65/69	85	81	78	72	67	64	61	61	72.6	969	

TABLE 16

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEC F) BY HOUR	PERCENT FREQUENCY OF WIND DIRECTION BY HOUR									
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
85/89	.0	9.8	26.6	31.5	21.7	10.3	7.4	69	189	
80/84	.0	22.8	31.2	28.6	10.1	7.4	69	171		
75/79	.0	21.1	35.7	25.1	14.6	3.5	68	154		
70/74	.0	14.3	28.6	25.3	24.7	7.1	73	154		
65/69	.0	11.9	21.3	19.4	12.2	5.0	71	698		



PERIOD: (PRIMARY) 1951-1971  
 (OVER-ALL) 1866-1971

JANUARY

AREA 0021 S. GULF OF OMAN  
 23.1N 59.3E

TABLE 17

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

AIR-SEA TMP DIF	61	63	69	73	77	81	85	TOT	M	NO FOG
11/13	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
9/10	.0	.0	.0	.0	.1	.4	.1	5	.0	.7
7/3	.0	.0	.0	.0	.1	.3	.1	4	.0	.5
5	.0	.0	.0	.1	.9	.4	.1	12	.0	1.6
4	.0	.0	.4	1.3	.3	.3	.0	17	.0	2.3
3	.0	.0	.3	1.6	.1	.0	.0	15	.0	2.0
2	.0	.0	.1	3.4	2.0	.0	.0	41	.0	5.5
1	.0	.0	.7	4.3	1.3	.0	.0	47	.0	6.3
0	.0	.1	2.2	6.9	1.3	.1	.0	79	.0	10.6
-1	.0	.0	2.6	7.1	.3	.0	.0	74	.0	10.0
-2	.0	.1	6.6	6.3	.1	.0	.0	98	.1	13.1
-3	.0	.7	7.0	4.9	.0	.0	.0	94	.0	12.5
-4	.0	.3	8.1	2.2	.0	.0	.0	78	.0	10.5
-5	.0	1.1	6.1	1.1	.0	.0	.0	61	.0	8.2
-6	.0	1.9	3.9	.4	.0	.0	.0	43	.0	5.8
-7/-8	.3	2.7	3.9	.3	.0	.0	.0	53	.0	7.1
-9/-10	.4	1.5	.4	.0	.0	.0	.0	17	.0	2.3
-11/-13	.1	.3	.1	.0	.0	.0	.0	4	.0	.5
TOTAL	6	64	306	279	69	15	3	742	.	741
PCT	.8	8.6	41.2	37.5	9.3	2.0	.4	100.0	.1	99.9

JANUARY  
TABLE 16  
AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

PERIODS (PRIMARY) 1963-1971  
(OVER-ALL)

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+	1-3	4-10	11-21	22-33	34-47	48+	
<1	2.4	4.2	1.0	.0	.0	.0	2.8	2.1	.0	.0	.0	.0	4.9
1-2	.0	3.0	1.4	.0	.0	.0	1.0	4.7	1.6	.0	.0	.0	7.3
3-4	.0	1.8	2.4	.0	.0	.0	.0	2.7	.1	.0	.0	.0	2.8
5-6	.0	.4	1.5	.0	.0	.0	.0	.5	.0	.0	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.4	.5	.0	.0	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
51-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.4	9.3	5.7	.5	.0	.0	3.8	10.0	1.9	.0	.0	.0	15.7

HGT	1-3		4-10		11-21		22-33		34-47		48+		PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.0	.0	.0	.0	.0	.1	3.5	.0	.0	.0	.0	3.7
1-2	.0	4.7	1.3	.0	.0	.0	.0	7.2	1.5	.0	.0	.0	8.7
3-4	.0	1.4	1.3	.0	.0	.0	.0	2.1	4.3	.0	.0	.0	6.4
5-6	.0	.4	.0	.0	.0	.0	.0	.1	2.5	.0	.0	.0	2.7
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
51-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	7.4	2.3	.0	.0	.0	.1	13.0	8.3	.6	.0	.0	22.1

PERIOD (PRIMARY)  
 1-1-63 TO 31-1-63

JANUARY  
 TABLE 18

AREA 0021 S. GULF OF OMAHA  
 23.1N 99.3E

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

HGT	S					SW					PCT		
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21		22-33	34-47
<1	1.9	1.9	1.0	.0	.0	.0	3.8	.0	1.1	.0	.0	.0	.0
1-2	.5	2.8	1.5	.0	.0	4.8	.0	.0	1.5	.0	.0	.0	.0
3-4	.0	.9	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.5	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
7	.0	.5	.0	.4	.0	.9	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.4	6.1	2.0	.4	.0	10.9	.0	.0	2.7	.0	.0	.0	2.7

HGT	NW					SW					PCT		
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21		22-33	34-47
<1	1.0	1.5	.0	.0	.0	.0	1.5	.0	1.8	.0	.0	.0	.0
1-2	1.0	.9	.0	.0	.0	1.9	.0	.0	2.5	.0	.0	.0	.0
3-4	.0	.5	.5	.0	.0	1.0	.0	.0	1.3	3.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.5	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.5	.0	.0
8-9	.0	.0	.4	.0	.0	.4	.0	.0	.0	.5	.5	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	2.9	.9	.0	.0	6.8	.0	.0	6.7	6.2	1.0	.0	15.8

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

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TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT				
<1	2.1	14.1	.0	.0	.0	.0	38.2				
1-2	2.9	22.4	5.8	.0	.0	.0	31.1				
3-4	.0	9.5	9.5	.0	.0	.0	19.1				
5-6	.0	2.1	5.0	.0	.0	.0	7.1				
7	.0	.4	.8	.0	.0	.0	2.1				
8-9	.0	.0	1.2	.8	.0	.0	2.0				
10-11	.0	.0	.0	.0	.0	.0	.4				
12	.0	.0	.0	.4	.0	.0	.0				
13-16	.0	.0	.0	.0	.0	.0	.0				
17-19	.0	.0	.0	.0	.0	.0	.0				
20-22	.0	.0	.0	.0	.0	.0	.0				
23-25	.0	.0	.0	.0	.0	.0	.0				
26-32	.0	.0	.0	.0	.0	.0	.0				
33-40	.0	.0	.0	.0	.0	.0	.0				
41-48	.0	.0	.0	.0	.0	.0	.0				
49-60	.0	.0	.0	.0	.0	.0	.0				
61-70	.0	.0	.0	.0	.0	.0	.0				
71-86	.0	.0	.0	.0	.0	.0	.0				
87+	.0	.0	.0	.0	.0	.0	.0				
TOT PCT	27.0	48.5	22.4	2.1	.0	.0	100.0				

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TABLE 19

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

PERIOD (SEC)	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)										TOT TOTAL	MEAN HGT						
	<6	6-7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32			33-40	41-48	49-60	61-70	71-86	
<6	13.2	24.1	16.6	3.1	.2	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	357	2
6-7	.0	.7	3.1	3.9	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.57	3
8-9	.0	.3	1.3	.5	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.19	5
10-11	.0	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	3
12-13	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	3
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDET	22.3	3.7	.7	1.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.175	1
TOTAL	218	180	196	55	12	8	2	0	0	0	0	0	0	0	0	0	614	2
PCT	35.5	29.3	22.1	9.0	2.0	1.3	.3	.12	.0	.3	.0	.0	.0	.0	.0	.0	100.0	

PERIOD (PRIMARY) 1951-1971  
(OVER-ALL) 1870-1971

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TABLE 1  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE			MIST	PCT FREQ PCPN AT OBS TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
	FRZG PCPN	SNOW PCPN	OTHER FRZN PCPN					FOG NO PCPN	SMOKE NO PCPN	HAZE BLWG SNOW	HAZE BLWG SNOW	HAZE BLWG SNOW	
N	.2	.0	.0	.0	.3	2	.1	.1	.1	.1	.1	.1	116
NE	.0	.0	.0	.0	.1	0	.0	.0	.1	.0	.0	.0	57
E	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	55
SE	.0	.0	.0	.0	.0	0	.1	.0	.3	.0	.0	.0	128
S	.0	.0	.0	.0	.0	0	.0	.0	.4	.0	.0	.0	93
SW	.0	.0	.0	.0	.0	0	.1	.0	.1	.0	.0	.0	39
W	.0	.0	.0	.0	.0	0	.2	.1	.2	.0	.0	.0	55
NW	.0	.0	.0	.0	.0	0	.0	.1	.2	.0	.0	.0	162
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	0	.0	.1	.5	.0	.0	.0	124
TOT OBS	2	0	0	0	.4	3	5	3	17	4	4	4	862
TOT PCT	.2	.0	.0	.0	.4	.3	.6	.3	2.0	.5	.5	.5	100.0

TABLE 2  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE			MIST	PCT FREQ PCPN AT OBS TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
	FRZG PCPN	SNOW PCPN	OTHER FRZN PCPN					FOG NO PCPN	SMOKE NO PCPN	HAZE BLWG SNOW	HAZE BLWG SNOW	HAZE BLWG SNOW	
0000	.0	.0	.0	.0	.5	1	.9	.5	2.3	.9	.5	.9	95.0
0600	.0	.0	.0	.0	.0	0	.0	.0	.9	.0	.0	.0	24.1
1200	.9	.0	.0	.0	.0	2	.4	.4	3.0	.0	.0	.0	23.0
1800	.0	.0	.0	.0	.0	0	.8	.4	1.3	.4	.4	.4	27.9
TOT	2	0	0	0	.5	3	5	3	17	4	4	4	861
PCT	.2	.0	.0	.0	.5	.3	.6	.3	1.9	.5	.5	.5	100.0



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PERIOD: (PRIMARY) 1951-1971  
(OVER-ALL) 1870-1971

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										WIND DIRECTION BY SPEED AND BY HOUR						
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPO	00	03	06	09	12	15	18	21
N	1.9	5.5	3.3	.4	.0	.0	131	14.1	8.8	10.3	5.9	13.1	11.5	21.2	2.9	13.5	13.2
NE	1.7	6.7	1.2	.0	.0	.0	60	6.5	7.6	3.8	2.9	5.3	.0	11.2	.0	7.1	5.9
E	1.1	6.4	.3	.0	.0	.0	73	7.9	6.6	6.0	3.9	3.4	9.5	11.7	14.7	10.0	2.9
SE	2.2	9.7	3.0	.1	.0	.0	138	14.9	7.8	16.4	20.6	13.8	7.7	16.8	23.5	12.8	10.3
S	1.7	5.5	2.8	.3	.0	.0	105	11.3	8.7	15.4	11.3	13.1	11.5	8.5	11.8	8.4	10.3
SW	.8	2.9	1.2	.0	.0	.0	45	4.9	7.6	5.9	5.9	8.6	1.9	1.6	2.9	3.3	17.6
W	.8	3.3	1.9	.4	.0	.0	59	6.4	10.4	8.3	10.3	7.4	7.7	2.2	5.9	7.0	11.8
NW	1.9	1.2	5.1	1.2	.1	.0	181	19.5	11.4	17.9	19.1	19.4	49.2	17.8	26.5	19.4	16.2
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	14.4	466	203	21	1	0	134	14.4	7.6	16.0	17.5	15.0	3.8	9.0	11.8	18.4	11.3
TOT OBS	228	21.9	2.3	.1	.0	.0	429	100.0		212	17	200	26	223	17	217	117
TOT PCT	25.6	50.2								160.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										WIND DIRECTION BY SPEED AND BY HOUR						
	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPO	00	03	06	09	12	15	18	21	
N	6.2	6.7	1.0	.2	.0	131	14.1	8.8	9.9	9.9	12.9	19.9	13.5				
NE	3.4	2.0	.2	.0	.0	60	6.5	7.6	3.7	3.7	4.6	10.4	7.1				
E	4.8	2.9	.2	.0	.0	73	7.9	6.6	6.0	6.0	4.1	11.9	9.5				
SE	6.3	8.2	.5	.0	.0	138	14.9	7.8	16.7	16.7	13.1	17.3	12.6				
S	4.7	5.8	.7	.1	.0	103	11.3	8.7	15.2	15.2	12.9	8.8	8.5				
SW	2.6	2.1	.2	.0	.0	45	4.9	7.6	5.9	5.9	7.9	1.7	4.4				
W	1.8	3.6	.9	.1	.0	59	6.4	10.4	8.4	8.4	7.4	2.5	7.4				
NW	4.8	10.4	4.1	.1	.0	181	19.5	11.4	18.0	18.0	22.5	18.4	19.1				
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0				
CALM	14.4	466	203	21	1	0	134	14.4	7.6	16.0	17.5	15.0	3.8	9.0	11.8	18.4	11.3
TOT OBS	455	42.5	7.9	.5	.0	929	100.0		160.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
TOT PCT	49.0	42.5							160.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

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

HOUR	WIND SPEED (KNOTS)					PCT FREQ	TOTAL OBS
	1-3	4-10	11-21	22-33	34-47		
0603	16.2	10.0	45.4	0	0	7.8	229
0609	14.6	12.4	49.1	21.7	2.2	7.7	225
12015	9.2	11.3	35.4	21.7	4	7.9	240
18021	17.9	11.1	50.4	17.5	3.0	7.2	234
TOT	134	104	465	203	21	7.6	929
PCT	14.4	11.2	50.2	21.9	2.3	100.0	

PERIOD: (PRIMARY) 1951-1971  
 (OVER-ALL) 1870-1971

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8-6	MEAN CLOUD COVER	TOTAL OBS
N	11.3	1.3	1.2	.6	1.4	110
NE	5.7	.5	.4	.1	1.1	51
E	5.6	1.2	.9	.2	1.6	60
SE	10.5	1.8	1.0	.8	1.6	107
S	8.2	1.9	.8	.4	1.5	85
SW	3.7	.3	.5	.1	1.2	35
W	5.3	.3	.7	.1	1.1	49
NW	14.5	2.4	1.9	.4	1.4	146
VAR	.0	.0	.0	.0	.0	0
CALM	13.2	.9	.7	.3	.7	114
TOT OBS	593	83	61	23	1.3	750
TOT PCT	78.0	10.9	8.0	3.0	100.0	

TABLE 6

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

WIND DIR	000	149	150	299	300	300	500	5000	6500	8000+	NH <5/8	TOTAL OBS
N	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	110
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	51
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	60
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	107
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	85
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	49
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	146
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	114
TOT OBS	0	0	0	1	5	15	8	4	3	2	715	760
TOT PCT	.0	.0	.0	.1	.7	2.0	1.1	.9	.4	.3	94.1	100.0

PERIOD: (PRIMARY) 1951-1971  
(OVER-ALL) 1870-1971

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TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >478) AND VSBY (NH)

CEILING (FEET)	OR		OR		OR		OR		OR		CK >0
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0			
OR >6500	.5	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6
OR >5000	1.9	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
OR >3500	1.8	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
OR >2000	2.7	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
OR >1000	4.5	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
OR >600	4.9	5.5	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
OR >300	4.9	5.5	5.7	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
OR >150	4.9	5.5	5.7	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
OR > 0	4.9	5.5	5.7	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
TOTAL	40	45	47	48	48	48	48	48	48	48	48

TOTAL NUMBER OF OBS: 820

PCT FREQ NH <578: 94.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	OB5	TOTAL
62.4	14.0	1.6	9.8	2.7	1.6	1.5	1.5	2.0	.0	.0	.0	865

PERIOD: (PRIMARY) 1951-1971  
 (OVER-ALL) 1870-1971

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TABLE 8

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

VSBY (MM)	PCP	ND PCP	TOT %	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL C9S
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	ND PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	ND PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	ND PCP	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
	TOT %	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.5
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	ND PCP	.3	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	TOT %	.3	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
5<10	PCP	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
	ND PCP	1.2	.0	.5	1.5	.9	.1	1.1	2.5	.0	1.4	2.5	.0	1.4	9.3
	TOT %	1.3	.1	.5	1.5	.9	.1	1.1	2.5	.0	1.4	2.5	.0	1.4	9.5
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	ND PCP	12.2	6.8	6.9	13.3	10.2	4.4	5.3	16.7	.0	12.9	88.8	.0	12.9	88.8
	TOT %	12.2	6.8	6.9	13.3	10.2	4.4	5.3	16.7	.0	12.9	88.8	.0	12.9	88.8
TOT OBS															840
TOT PCT				14.1	6.9	7.8	13.0	11.1	4.6	6.4	19.3	.0	14.6	100.0	

PERIOD: PRIMARY: 1951-1971  
 (OVER-ALL) 1870-1971

FEBRUARY

AREA 0021 S. GULF OF OMAN  
 23.1N 59.3E

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
 WITH /AVING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
	4-10	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	11-21	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	TOT %	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.4
2/5	0-3	.0	.0	.0	.0	.0	.1	.0	.1	.0	.1	.3
	4-10	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
	11-21	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	TOT %	.3	.0	.0	.0	.0	.1	.0	.1	.0	.1	.6
5<10	0-3	.0	.0	.0	.3	.3	.0	.2	.2	.0	1.4	2.4
	4-10	.7	.1	.5	1.2	.5	.1	.5	.9	.0	.0	4.1
	11-21	.4	.1	.0	.2	.2	.1	.3	1.0	.0	.0	2.7
	TOT %	1.1	.2	.5	1.7	1.1	.3	1.0	2.9	.0	1.4	9.6
10+	0-3	3.0	.7	1.1	2.0	1.5	.7	.6	1.5	.0	12.6	22.9
	4-10	7.5	4.7	5.5	8.7	6.0	2.8	3.2	7.0	.0	.0	45.5
	11-21	2.6	1.1	.4	2.5	2.5	1.0	1.4	3.1	.0	.0	18.3
	TOT %	12.3	6.5	7.0	13.3	10.1	4.5	5.5	16.7	.0	12.6	88.5
TOT OBS		14.1	6.7	8.0	15.1	11.2	4.0	6.5	19.2	.0	14.4	905
TOT PCT											100.0	



PERIOD: (PRIMARY) 1951-1971  
 (OPER-ALL) 1870-1971

FEBRUARY

AREA: 0021 S. GULF OF OMAN  
 23.1N 59.3E

TABLE 10  
 PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >4/8) AND  
 OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	400 799	500 1199	600 1799	700 2399	800+ 3199	TOTAL 4499	KT ANY HGT	<5/8 TOTAL OBS
00003	.0	.0	.0	1.5	2.5	2.0	.0	.5	.0	7.0	93.0
06009	.0	.0	.0	.0	2.3	.5	2.8	.5	.0	6.5	93.5
12015	.0	.0	.5	.5	.0	.9	.9	.5	.9	4.5	88.5
18021	.0	.0	.0	.5	2.7	.5	.5	.5	.0	4.5	95.5
TOT PCT	.0	.0	.1	.6	1.9	.9	1.1	.5	.2	4.8	80.8
										5.6	94.4
											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
00003	.0	.0	.5	1.0	6.3	92.1	191
06009	.0	.0	.0	.0	5.9	94.1	204
12015	.0	.0	.5	.9	5.6	92.6	215
18021	.0	.0	.0	1.0	10.5	88.6	210
TOT	.0	.0	.3	.6	5.8	79.3	820
PCT	.0	.0	.4	.7	7.1	91.8	100.0

TABLE 12

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

HOUR (GMT)	<150 CEILING HGT	<500 <1	<1000 <5	1000+ AN05+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	2.6	5.8	91.6	191
06009	.0	.0	.0	6.9	93.1	204
12015	.0	.5	1.9	3.7	94.4	215
18021	.0	.0	1.4	4.3	94.3	210
TOT	.0	.1	1.2	4.2	76.6	820
PCT	.0	.1	1.5	5.1	93.4	100.0

FEBRUARY

PERIOD: (PRIMARY) 1951-1971  
(OVER-ALL) 1970-1971

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100				
85/89	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	2	.3
80/84	.0	.0	.0	.6	2.0	1.2	.6	.1	.1	.1	31	4.5
75/79	.0	.1	.6	2.6	4.8	9.3	4.1	1.7	1.7	1.0	100	23.3
70/74	.0	.0	.9	4.5	16.0	17.9	15.0	7.0	7.0	4.21	61.2	10.5
65/69	.0	.0	.5	1.6	3.3	2.2	2.2	.7	.7	73	10.5	
60/64	.0	.0	.0	.0	.0	.0	.0	.1	.1	1	.1	
TOTAL	.0	.1	1.4	9.3	26.3	30.7	21.6	6.7	6.7	688	100.0	
PCT	.0	.1	2.0	9.3	26.3	30.7	21.6	9.7	9.7			

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP												
		N	NE	E	SE	S	SW	W	NW	VAR	CALM	TOTAL
85/89	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
80/84	.3	.5	.9	.5	.9	.1	.1	.0	.4	.0	.0	1.0
75/79	2.8	1.3	1.9	3.9	2.7	1.7	1.6	3.7	.4	.0	.0	3.8
70/74	8.4	3.5	4.1	10.1	6.5	2.9	4.3	13.0	.0	.0	.0	8.4
65/69	2.2	.6	.5	1.2	1.1	.4	.9	2.5	.0	.0	.0	1.3
60/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	94	43	50	107	76	32	46	136	.0	.0	.0	100
PCT	13.7	6.3	7.4	15.6	11.2	4.7	6.8	19.8	.0	.0	.0	14.2

TABLE 15

HOUR (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL OBS
	MAX	99%	95%	50%	5%	1%	MIN	MEAN			
00003	82	79	75	71	67	64	64	71.2	2.6	2.6	2.6
06009	88	84	80	74	70	67	67	74.5	2.63	2.63	
12015	87	86	82	74	70	68	63	75.0	2.65	2.65	
18021	80	79	75	72	68	65	64	71.9	2.55	2.55	
TOT	88	83	79	73	68	65	63	73.1	9.89	9.89	

TABLE 16

HOUR (GMT)	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL OBS
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL	
00003	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18021	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT	0	0	0	0	0	0	0	0	0	0	0

PERIOD: (PRIMARY) 1951-1971  
(COVER-ALL) 1870-1971

FEBRUARY

AREA 0021 S. GULF OF OMAN  
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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	65	69	73	77	81	85	TOT	W	HO
	64	68	72	76	80	84	88	FOG	PCT	FUG
11/13	.0	.0	.0	.0	.0	.0	.1	2	.0	.2
9/10	.0	.0	.0	.0	.1	.5	.4	8	.0	1.0
7/8	.0	.0	.0	.0	.2	.9	.0	9	.0	1.1
5	.0	.0	.0	.1	.9	.6	.0	13	.0	1.6
4	.0	.0	.0	.1	1.1	.5	.0	14	.0	1.7
3	.0	.0	.2	.5	2.0	.0	.0	22	.0	2.7
2	.0	.0	.2	1.7	2.0	.0	.0	32	.0	4.0
1	.0	.0	.4	4.0	1.6	.0	.0	48	.0	6.0
0	.0	.1	2.2	9.4	1.0	.0	.0	57	.0	7.1
-1	.0	.1	4.1	9.0	.7	.0	.0	100	.1	12.3
-2	.0	.4	8.2	5.9	.2	.0	.0	112	.0	14.0
-3	.0	.7	6.5	2.9	.0	.0	.0	118	.2	14.5
-4	.0	.9	6.5	1.9	.0	.0	.0	81	.0	10.1
-5	.0	1.2	4.0	.9	.0	.0	.0	74	.0	9.2
-6	.0	.6	2.1	.2	.0	.0	.0	49	.0	6.1
-7/-8	.0	1.0	2.1	.4	.0	.0	.0	24	.0	3.0
-9/-10	.1	.4	.4	.1	.0	.0	.0	28	.0	3.5
-11/-13	.1	.1	.0	.0	.0	.0	.0	8	.0	1.0
-14/-16	.1	.0	.0	.0	.0	.0	.0	2	.0	.2
TOTAL	3	45	302	341	86	21	4	802	3	799
PCT	.4	5.6	37.7	42.5	12.7	2.3	.3	100.0	.4	99.6

FEBRUARY  
AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1971  
TABLE 10

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

HGT	N													
	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	1.2	.0	.0	.0	.0	1.7	.5	1.5	.0	.0	.0	.0	.0
1-2	.0	6.9	1.1	.0	.0	.0	7.9	.0	4.1	.0	.0	.0	.0	2.0
3-4	.0	3.6	2.2	.0	.0	.0	5.8	.0	.1	.5	.0	.0	.0	4.1
5-6	.0	.0	.4	.8	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.7
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	11.6	3.7	.8	.0	.0	16.7	.5	5.7	.5	.0	.0	.0	6.7

HGT	E													
	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	1.5	.0	.0	.0	.0	1.9	.7	1.3	.1	.0	.0	.0	.0
1-2	.0	5.3	.4	.0	.0	.0	5.7	.5	5.7	1.2	.0	.0	.0	2.1
3-4	.0	.0	.0	.0	.0	.0	.0	.7	1.1	1.1	.0	.0	.0	7.4
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	.0	2.8
7	.0	.0	.5	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	7.7	.9	.0	.0	.0	9.0	1.9	8.1	3.4	.0	.0	.0	13.4

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	1.6	1.2	.4	.0	.0	.0	3.2	.0	1.2	.0	.0	.0	.0	1.2
1-2	.0	3.4	.0	.0	.0	.0	3.4	.5	1.5	.5	.0	.0	.0	2.5
3-4	.4	2.0	1.1	.5	.0	.0	4.0	.0	.7	.3	.0	.0	.0	1.2
5-6	.0	.0	1.1	.0	.0	.0	1.1	.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	.5	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.0	6.6	2.5	1.1	.0	.0	12.2	.5	3.3	1.1	.0	.0	.0	4.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9	1.1	.8	.5	.0	.0	.0	2.4
1-2	.5	3.3	.9	.0	.0	.0	4.8	.0	.6	5.4	.0	.0	.0	8.1
3-4	.0	3.2	1.5	.0	.0	.0	4.6	.0	2.2	6.3	.5	.0	.0	9.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.5	3.3	1.3	.0	.0	5.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	7.4	2.4	.0	.0	.0	10.3	1.1	6.2	16.7	2.4	.5	.0	26.7



PERIOD: (PRIMARY) 1950-1971  
(OVER-ALL) 1860-1971

MARCH

AREA 00°15' S, GULF OF OMAN  
23.2°N 59.3°E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN		RAIN SHWR		DRIZ	PRECIPITATION TYPE			HAIL	PCT FREQ		TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA						TOTAL OBS	
	SHWR	SHWR	PCPN	PCPN		FRZG	SNOW	OTHER		FRZN	PCPN			PCPN AT	OB TIME	PCPN	PCPN	FOG	SMOKE		HAZE
N	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.1	.0	.0	.6	.1	10.4	.0	.0	97
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.2	.3	.3	4.2	.0	.0	41
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.0	.3	.1	.1	4.5	.0	.0	44
SE	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.2	.0	.5	.5	11.3	.0	.0	108	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.7	.0	13.4	.0	.0	123	
SW	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.0	.2	.0	7.5	.0	.0	85	
W	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.0	.3	.0	9.5	.0	.0	86	
NW	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2	2	.0	.0	1.0	1.0	19.6	.0	.0	191	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.1	.0	.6	.3	9.5	.0	.0	92	
TOT OBS	4	3	1	0	0	0	0	0	0	0	7	7	4	2	38	20	801	20	20	870	
TOT PCT	.5	.2	.1	.0	.0	.0	.0	.0	.0	.0	.8	7	.5	.2	4.4	2.3	92.1	2.3	2.3	100.0	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN		RAIN SHWR		DRIZ	PRECIPITATION TYPE			HAIL	PCT FREQ		TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA						TOTAL OBS
	SHWR	SHWR	PCPN	PCPN		FRZG	SNOW	OTHER		FRZN	PCPN			PCPN AT	OB TIME	PCPN	PCPN	FOG	SMOKE	
0000	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	2	.8	.4	3.8	.5	92.0	2.5	.0	238
0600	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.4	4.0	2.2	93.3	2.2	.0	223
1200	.4	.0	.0	.0	.0	.0	.0	.0	.0	.8	2	2	.0	.0	5.9	1.7	91.5	2.3	.0	236
1800	.9	.0	.5	.0	.0	.0	.0	.0	.0	1.4	3	3	1.4	.0	2.7	2.3	92.8	2.3	.0	221
TOT	4	2	1	0	0	0	0	0	0	7	7	7	5	2	38	20	848	20	20	918
PCT	.4	.2	.1	.0	.0	.0	.0	.0	.0	.8	7	7	.5	.2	4.1	2.2	92.4	2.2	.0	100.0

PERIOD: (PRIMARY) 1950-1971  
 (OVER-ALL) 1966-1971

MARCH

AREA 0021 S. GULF OF OMAN  
 23.1N 59.3E

TABLE 3  
 PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										TOTAL OBS	PCT FREQ	MEAN SPO	HOUR (GMT)											
	0-3	4-10	11-21	22-33	34-47	48+	0-6	7-15	16-27	28-40				41+	TOTAL OBS	00	03	06	09	12	15	18	21		
N	2.3	5.8	2.9	.3	.0	.0	.0	.0	.0	.0	.0	110	11.3	8.5	6.2	5.3	10.2	7.1	17.0	15.0	12.7	4.2			
NE	.8	3.3	1.0	.0	.0	.0	.0	.0	.0	.0	.0	49	5.0	7.5	1.5	2.3	4.7	14.3	8.0	9.0	4.6	6.3			
E	1.0	3.5	.4	.0	.0	.0	.0	.0	.0	.0	.0	52	5.4	6.6	3.2	2.5	3.7	7.1	9.2	2.0	5.0	2.1			
SE	1.6	7.4	2.7	.2	.0	.0	.0	.0	.0	.0	.0	118	12.1	7.8	12.8	2.5	10.0	9.5	12.6	8.0	15.4	6.3			
S	2.5	8.1	3.4	.5	.0	.0	.0	.0	.0	.0	.0	142	14.7	8.8	15.9	5.0	15.6	.0	13.5	12.0	14.3	27.1			
SW	1.3	5.5	2.9	.0	.0	.0	.0	.0	.0	.0	.0	96	9.9	8.9	10.0	17.5	16.1	4.8	6.2	12.0	5.8	20.8			
W	1.5	6.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	94	9.7	8.2	12.5	20.0	19.6	19.0	4.1	8.0	10.8	10.4			
NW	2.3	11.4	7.0	1.4	.0	.0	.0	.0	.0	.0	.0	216	22.1	10.2	23.2	33.8	21.4	33.3	21.0	26.0	20.4	18.8			
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CALC	10.1	504	218	25	0	0	99	10.1	7.8	100.0	100.0	979	10.1	7.8	14.5	10.0	8.7	4.8	8.4	8.0	10.0	4.2			
TOT OBS	232	504	218	25	0	0	979	10.1	7.8	100.0	100.0	979	10.1	7.8	234	20	208	21	237	25	210	27			
TOT PCT	23.7	51.5	22.3	2.5	.0	.0	100.0	10.1	7.8	100.0	100.0	100.0	10.1	7.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0			

TABLE 5A

WIND DIR	WIND SPEED (KNOTS)										TOTAL OBS	PCT FREQ	MEAN SPO	HOUR (GMT)											
	0-6	7-15	16-27	28-40	41+	TOTAL OBS	00	03	06	09				12	15	18	21								
N	3.3	4.9	.9	.1	.0	.0	110	11.3	8.5	6.2	5.3	10.2	7.1	17.0	15.0	12.7	4.2								
NE	2.2	2.7	.1	.0	.0	.0	49	5.0	7.5	1.5	2.3	4.7	14.3	8.0	9.0	4.6	6.3								
E	2.8	2.6	.0	.0	.0	.0	52	5.4	6.6	3.2	2.5	3.7	7.1	9.2	2.0	5.0	2.1								
SE	3.8	5.7	.5	.1	.0	.0	118	12.1	7.8	12.8	2.5	10.0	9.5	12.6	8.0	15.4	6.3								
S	5.3	6.8	1.3	.1	.0	.0	142	14.7	8.8	15.9	5.0	15.6	.0	13.5	12.0	14.3	27.1								
SW	4.1	4.3	.2	.1	.0	.0	96	9.9	8.9	10.0	17.5	16.1	4.8	6.2	12.0	5.8	20.8								
W	3.9	5.0	.7	.0	.0	.0	94	9.7	8.2	12.5	20.0	19.6	19.0	4.1	8.0	10.8	10.4								
NW	5.0	10.7	3.0	.3	.0	.0	216	22.1	10.2	23.2	33.8	21.4	33.3	21.0	26.0	20.4	18.8								
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0								
CALC	10.1	423	73	.7	.0	979	10.1	7.8	14.5	10.0	8.7	4.8	8.4	8.0	10.0	4.2									
TOT OBS	476	423	73	.7	.0	979	10.1	7.8	254	20	208	21	237	25	210	27									
TOT PCT	43.6	43.2	7.5	.7	.0	100.0	10.1	7.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0									



PERIOD: (PRIMARY) 1950-1971  
(OVER-ALL) 1866-1971

MARCH

AREA 0021 S. GULF OF OMAN  
23,1N 59.2E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)			PCT FREQ	TOTAL OBS
		4-10	11-21	22-33		
0600	14.2	12.2	50.0	2.0	0.0	7.5 100.0
0609	6.3	14.4	53.7	2.2	0.0	7.8 100.0
1215	1.4	13.0	50.4	4.2	0.0	6.5 100.0
1821	5.4	15.0	52.1	1.7	0.0	7.5 100.0
TOT	99	133	504	25	0	7.8
PCT	10.1	13.6	51.5	2.6	0.0	100.0

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8-6	TOTAL	MEAN CLOUD COVER
N	8.9	.7	1.0	.2	86	1.2
NE	2.9	.7	.8	.0	35	1.5
E	3.5	.5	.3	.3	51	1.5
SE	6.0	1.7	1.9	.3	102	1.8
S	1.5	1.4	1.6	.4	119	1.5
SW	4.2	.6	.8	.2	79	1.1
W	3.0	.9	.6	.2	77	1.1
NW	1.0	2.0	1.3	1.0	178	1.3
CALM	.0	.0	.0	.0	0	.0
VAR	8.8	.5	1.0	.0	82	.9
TOT OBS	631	73	175	21	800	1.3
TOT PCT	78.9	9.1	21.9	2.6	100.0	

TABLE 6

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

WIND DIR	ANO OCCURRENCE OF NH <5/8				PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8)				TOTAL OBS	
	300	600	1000	2000	3500	5000	6500	8000+		
N	.0	.0	.0	.1	.0	.0	.0	.0	10.7	66
NE	.0	.0	.0	.1	.0	.1	.1	.0	4.0	35
E	.0	.0	.0	.0	.1	.0	.0	.0	4.6	39
SE	.0	.0	.0	.0	.2	.3	.0	.0	11.6	102
S	.0	.0	.0	.3	.1	.0	.1	.1	14.0	119
SW	.0	.0	.0	.0	.1	.1	.0	.0	9.6	79
W	.0	.0	.0	.0	.1	.0	.0	.0	9.4	77
NW	.0	.0	.0	.1	.4	.4	.0	.4	20.3	178
CALM	.0	.0	.0	.0	.0	.0	.0	.0	0	0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	0
TOT OBS	2	0	1	9	7	4	3	5	757	800
TOT PCT	.3	.1	1.3	1.1	.9	1.0	.5	1.4	94.6	100.0

PERIOD: (PRIMARY) 1950-1971  
(OVER-ALL) 1866-1971

MARCH

AREA 0021 5, GULF OF OMAN  
23.1N 59.3E

TABLE 7

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

CEILING (FEET)	OR		OR		OR		OR		OR	
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0		
OR >6500	0	1.1	1.1	1.1	1.1	1.1	1.1	1.1		
OR >5000	1.0	1.7	1.7	1.7	1.7	1.7	1.7	1.7		
OR >3500	1.9	2.6	2.6	2.6	2.6	2.6	2.6	2.6		
OR >2000	2.7	3.6	3.6	3.6	3.6	3.6	3.6	3.6		
OR >1000	3.8	4.6	4.6	4.6	4.6	4.6	4.6	4.6		
OR >600	4.2	5.1	5.1	5.1	5.1	5.1	5.1	5.1		
OR >300	4.3	5.2	5.2	5.2	5.2	5.2	5.2	5.2		
OR >150	4.3	5.2	5.2	5.2	5.2	5.2	5.2	5.2		
OR > 0	5.3	5.2	5.4	5.5	5.5	5.5	5.5	5.5		
TOTAL	36	44	45	46	46	45	46	46		

TOTAL NUMBER OF OBS: 801 PCT FREQ NH <5/8: 94.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTMS)

0	1	2	3	4	5	6	7	8	TOTAL
71.5	12.2	5.1	2.5	2.3	1.5	1.5	1.9	1.1	0.2
									878

PERIOD: (PRIMARY) 1950-1971  
(OVER-ALL) 1866-1971

MARCH

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 8

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

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT TOTAL CBS
<1/2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
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<	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
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	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2
PCP	.4	.1	.0	.2	.0	.0	.0	.8	.0	.0	1.5
NO PCP	.5	.1	.0	.2	.0	.0	.0	.9	.0	.0	1.7
TOT %	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2
5<10	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.2
PCP	1.1	.7	.2	1.3	.7	.0	1.3	3.7	.0	1.1	10.8
NO PCP	1.1	.7	.3	1.3	.7	.6	1.4	3.7	.0	1.1	11.0
TOT %	.0	.0	.0	.1	.0	.1	.0	.1	.0	.0	.3
10+	9.6	4.0	4.6	10.9	13.4	9.1	8.5	17.3	.0	9.4	86.8
PCP	9.6	4.0	4.6	11.0	13.4	9.2	8.5	17.4	.0	9.4	87.1
NO PCP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOT %	11.2	4.7	5.1	12.5	14.2	9.9	9.9	22.0	.0	10.6	100.0
TOT OBS											870
TOT PCT											

PERIOD (PRIMARY) 1950-1971  
(COVER-ALL) 1866-1971

MARCH

AREA 0021 S. GULF OF BHAN  
23.1N 59.3E

TABLE 9

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

USBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	4-10	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
5<10	0-3	.2	.1	.2	.2	.1	.2	.4	.2	.0	1.2	2.7
	4-10	.2	.5	.3	.3	.4	.5	1.0	1.6	.0	5.3	5.3
	11-21	.5	.4	.2	.3	.3	.1	.0	1.1	.0	3.0	3.0
	TOT %	1.1	.9	.7	1.4	.9	.7	1.3	2.4	.0	1.2	11.5
10+	0-3	2.1	.8	.9	1.8	2.3	1.1	1.2	2.0	.0	9.0	21.1
	4-10	5.6	2.8	3.6	6.3	7.8	3.1	3.2	9.5	.0	45.9	45.9
	11-21	1.9	.5	.2	2.3	3.0	2.9	2.1	5.0	.0	17.9	17.9
	TOT %	9.8	4.1	4.7	10.5	13.6	9.2	8.5	17.2	.0	9.0	85.6
TOT OBS											938	
TOT PCT		11.3	5.0	5.5	12.1	14.6	9.9	9.6	21.5	.0	10.1	100.0

PERIOD: (PRIMARY) 1950-1971  
(OVER-ALL) 1866-1971

MARCH

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 10  
PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000	150	300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100	2250	TOTAL	NH <5/8 ANY HGT	TOTAL NH <5/8 OBS
0000Z	.0	.0	.0	.0	.5	.0	.5	1.4	.0	.0	.0	.0	.9	.9	3.1	96.8	222		
0600Z	.5	.0	.0	.0	.9	1.4	1.4	.9	.0	.9	.5	6.6	93.4	211					
1201Z	.5	.0	.0	.0	.0	1.4	.0	.5	1.4	.5	.9	5.0	93.0	221					
1802Z	.0	.0	.5	.5	1.4	1.9	.9	.9	.0	.5	6.5	93.5	214						
TOT	2	0	1	4	9	8	8	5	3	6	46	822	868						
PCT	.2	.0	.1	.5	1.0	.9	.9	.6	.3	.7	5.3	94.7	100.0						

TABLE 11  
PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
0000Z	.0	.0	.0	1.4	8.9	89.7	214
0600Z	.0	.0	.0	.9	7.1	91.5	212
1201Z	.0	.0	.0	2.4	7.5	90.1	212
1802Z	.0	.0	.0	1.0	13.7	85.3	204
TOT	0	0	0	12	78	751	842
PCT	.0	.0	.0	1.4	9.3	89.2	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 FT	<600 FT	<1000 FT	1000+ FT	NH <5/8 AND 5+ OBS	TOTAL OBS
0000Z	.0	.0	1.9	2.8	95.3	214
0600Z	.9	.9	2.4	5.2	92.5	212
1201Z	.5	.2	2.4	4.7	94.9	212
1802Z	.0	.5	2.0	5.9	92.2	204
TOT	3	4	18	39	785	842
PCT	.4	.5	2.1	6.6	93.2	100.0

MARCH

PERIOD: (PRIMARY) 1950-1971  
(OVER-ALL) 1866-1971

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.1	.1	.0	.0	.0	2	.3
85/89	.0	.0	.1	.3	1.1	.6	.0	.1	16	2.3
80/84	.0	.0	.3	1.9	5.2	5.5	2.6	.9	120	17.2
75/79	.0	.0	1.1	2.9	7.6	18.1	12.5	8.6	368	52.8
70/74	.0	.0	.6	2.3	4.6	7.3	6.0	4.9	179	25.7
65/69	.0	.0	.0	.0	.1	.1	.9	.4	12	1.7
TOTAL	.0	.0	1.5	5.3	15.2	22.0	15.3	10.4	697	100.0
PCT	.0	.0	2.2	7.6	21.8	31.6	22.0	14.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0
85/89	.3	.1	.1	.4	.4	.1	.1	.6	.0	.1
80/84	2.2	1.0	1.3	2.2	2.2	2.0	1.3	2.7	.0	2.3
75/79	5.6	2.2	1.9	5.3	9.1	6.3	5.6	12.5	.0	4.4
70/74	2.6	1.5	1.0	2.9	4.1	2.0	2.3	5.5	.0	3.7
65/69	.4	.1	.4	.1	.1	.0	.1	.7	.0	.0
TOTAL	11.2	4.9	4.7	10.9	15.9	10.4	9.5	21.7	.0	10.6

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00203	85	81	79	74	72	68	67	74.5	240
06209	90	89	84	78	72	70	70	78.2	235
12215	89	88	84	78	73	70	68	78.6	263
18221	85	83	80	75	71	69	68	75.3	249
TOT	90	87	84	76	71	69	67	76.7	1007

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00203	.0	4.2	14.1	14.1	23.6	30.4	27.7	80	191	
06209	.0	14.3	20.3	20.3	39.6	15.4	10.4	74	182	
12215	.0	14.3	34.3	32.0	14.3	5.1	70	175		
18221	.0	8.4	17.3	29.6	27.9	5.0	77	179		
TOT	0	74	135	226	161	111	75	727		

PERIOD: (PRIMARY) 1950-1971  
(OVER-ALL) 1866-1971

MARCH

AREA 0021, S. GULF OF OMAN  
23.1N 59.3E

TABLE 17

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

AIR-SEA TMP DIF	65	69	73	77	81	85	89	TOT	H FOG	NO FOG
14/16	.0	.0	.0	.0	.1	.0	.1	2	.0	.3
11/13	.0	.0	.0	.0	.3	.5	.5	10	.0	1.3
9/10	.0	.0	.0	.1	.1	.8	.1	8	.0	1.0
7/8	.0	.0	.0	.3	2.0	.9	.0	25	.0	3.2
6	.0	.0	.0	.0	1.1	.5	.0	13	.0	1.7
5	.0	.0	.0	.8	2.0	.3	.0	32	.0	4.1
4	.0	.1	.8	2.7	2.8	.0	.0	50	.0	6.4
3	.0	.3	.3	3.3	2.2	.1	.0	48	.0	6.1
2	.0	.5	1.5	7.1	1.3	.0	.0	80	.0	10.2
1	.0	.1	4.3	7.1	.6	.0	.0	96	.0	12.2
0	.0	.5	7.4	6.6	.1	.0	.0	115	.0	14.6
-1	.0	.6	8.7	2.9	.1	.0	.0	198	.0	12.5
-2	.0	1.9	5.9	1.3	.0	.0	.0	71	.1	8.9
-3	.0	1.9	3.3	.6	.0	.0	.0	49	.0	5.5
-4	.3	2.5	2.5	.6	.0	.0	.0	47	.0	6.0
-5	.1	1.4	.6	.3	.0	.0	.0	19	.1	2.3
-6	.1	.8	.8	.0	.0	.0	.0	13	.0	1.7
-7/-8	.4	.5	.5	.0	.0	.0	.0	12	.0	1.2
TOTAL	7	68	287	272	101	24	6	785	3	783
PCT	.9	11.2	36.6	34.6	12.9	3.1	.6	100.0	.5	99.7

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

MARCH

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

TABLE 18

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

HGT	N				NE				PCT				
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10		11-21	22-33	34-47	48+
<1	.8	2.4	.0	.0	.0	.0	3.2	.5	1.9	.5	.0	.0	2.9
1-2	.0	4.2	.0	.0	.0	4.2	.0	.1	1.1	.0	.0	.0	1.2
3-6	.0	1.1	2.2	.0	.0	3.3	.0	.1	.1	.5	.0	.0	.7
7	.0	.5	1.9	.5	.0	2.9	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	1.1	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.8	.0	.0	.8	.0	.0	.0	.1	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	8.2	6.0	1.0	.0	16.1	.7	3.1	1.1	.0	.0	.0	5.0

HGT	E				SE				PCT				
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10		11-21	22-33	34-47	48+
<1	1.0	.8	.0	.0	.0	.0	1.8	1.4	1.6	.5	.0	.0	3.5
1-2	.4	2.3	.0	.0	.0	2.7	.0	.5	4.8	.0	.0	.0	5.2
3-6	.4	.5	.0	.0	.0	.8	.0	.0	1.0	.5	.0	.0	1.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	3.6	.0	.0	.0	5.3	1.9	7.4	1.0	.0	.0	.0	10.3



PERIOD 1 (PRIMARY)  
(DURATION) 1963-1971

MARCH  
TABLE 18

AREA 0021 S. GULF OF OMAN  
23.1N 59.2E

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	.0	1.9	.5	.0	.0	.0	2.3	.0	2.2	.0	.0	.0	.0	2.2
1-2	1.3	6.5	.0	.0	.0	.0	7.9	.6	5.0	1.6	.0	.0	.0	7.1
3-4	.0	1.9	.8	.0	.0	.0	2.8	.0	.5	2.5	.0	.0	.0	3.0
5-6	.0	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	10.3	1.8	.0	.0	.0	13.4	.6	7.6	4.6	.0	.0	.0	12.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4	1.6	2.9	.0	.0	.0	.0	4.5
1-2	.0	6.5	.8	.0	.0	.0	7.5	.5	3.7	1.0	.0	.0	.0	8.2
3-4	.5	.5	3.0	.0	.0	.0	4.0	.0	3.1	4.0	.5	.0	.0	7.6
5-6	.0	.0	.5	.0	.0	.0	.5	.0	1.0	2.4	1.0	.0	.0	4.3
7	.0	.0	.5	.0	.0	.0	.5	.0	.0	1.8	.5	.0	.0	2.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	7.5	4.8	.0	.0	.0	12.8	2.1	10.7	9.2	2.4	.0	.0	24.4



APRIL  
 TABLE 1  
 PERIOD (PRIMARY) 1950-1971 (COVER-ALL) 1970-1971  
 AREA 0021 S. GULF OF ONAN  
 23.1N 99.2E

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	R/IN 54HR	ORZL 54HR	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OBS TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				PCPN	FRZG	SNOW					SMOKE	HAZE	BLWG	DUST	
N	.1	.0	.0	.0	.0	.0	.0	.1	0	.1	.9	.1	.1	8.1	74
NE	.0	.0	.0	.0	.0	.0	.0	.1	0	.3	.3	.1	.0	3.5	33
E	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.3	.0	.0	4.2	35
SE	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.4	.3	.0	11.9	98
S	.1	.0	.0	.0	.0	.0	.0	.1	1	.0	1.0	.4	.4	15.4	131
SW	.1	.3	.0	.0	.0	.0	.0	.1	1	.1	.8	.4	.4	12.4	110
W	.0	.1	.0	.0	.0	.0	.0	.1	1	.0	.4	.2	.0	7.2	62
NW	.1	.0	.1	.0	.0	.0	.0	.1	1	.0	1.1	.5	.0	14.6	128
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	1.0	.1	.1	12.6	109
TOT OBS	4	1	1	1	0	0	0	.4	5	4	48	17	4	1703	733
TOT PCT	.5	.1	.1	.1	.0	.0	.0	.5	.6	.5	6.1	2.2	.2	90.0	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (PCT)	RAIN	R/IN SH4R	ORZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OBS TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				PCPN	FRZG	SNOW					SMOKE	HAZE	BLWG	DUST	
0000	.0	.0	.2	.0	.0	.0	.0	.0	0	.9	6.0	.9	.9	91.3	218
0600	.0	.0	.3	.0	.0	.0	.0	.0	0	.0	7.0	2.0	.5	89.8	205
1200	1.8	.0	.3	.0	.0	.0	1.8	4	4	.0	6.4	3.7	.5	87.7	219
1800	.0	.5	.3	.0	.0	.0	.5	1	1	1.5	2.5	2.0	.5	93.0	201
TOT	4	1	1	0	0	0	.6	5	5	5	48	18	5	762	843
PCT	.5	.1	.1	.0	.0	.0	.6	.6	.6	.6	5.7	2.1	.6	90.4	100.0

AREA 0021 S. GULF OF OMAN  
23.0 IN ; .2E

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PERIOD (PRIMARY) 1950-1971  
(OVERALL) 1870-1971

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)						
	0-3	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	5.4	6.7	.1	.0	.0	83	9.4	8.0	5.8	27.1	10.4	7.7	14.0	6.9	6.8	8.7
NE	.8	3.1	.5	.0	.0	.0	38	4.4	6.7	3.4	.0	2.7	7.7	8.9	.0	2.4	4.3
E	1.4	2.8	.3	.0	.0	.0	39	4.4	5.4	2.3	.0	3.6	5.8	8.9	6.6	2.4	.0
SE	2.4	8.6	1.7	.0	.0	.0	112	12.7	6.6	10.0	16.7	10.8	3.8	15.0	17.2	15.0	17.4
S	2.1	10.7	4.9	.0	.0	.0	133	17.4	8.6	18.6	16.7	12.2	26.9	15.3	19.0	22.0	20.7
SW	1.3	8.6	3.5	.0	.0	.0	118	13.4	9.3	19.0	16.7	16.1	23.1	6.1	6.9	12.3	13.0
W	1.7	4.9	1.5	.3	.0	.0	74	8.4	8.2	8.3	.0	8.9	12.5	5.0	12.1	9.3	25.0
NW	2.8	9.1	4.3	.1	.0	.0	144	16.4	8.2	12.0	6.3	23.7	12.5	17.8	25.9	12.3	10.9
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	13.4						118	13.4	.0	20.7	16.7	11.5	.0	8.9	3.4	17.5	.0
TOT OBS	244	468	163	5	0	0	880		6.9	208	12	192	26	213	29	177	23
TOT PCT	27.7	53.2	18.5	.6	.0	.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)					
	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	4.3	.6	.0	.0	83	9.4	8.0	6.9	6.9	10.1	13.1	13.1	7.0		
NE	2.3	2.1	.0	.0	.0	38	4.4	6.7	3.2	3.2	3.3	7.9	2.6			
E	3.3	1.2	.0	.0	.0	39	4.4	5.4	2.2	2.2	3.9	0.9	2.1			
SE	7.6	5.0	.1	.0	.0	112	12.7	6.6	10.3	10.3	10.0	15.3	15.3			
S	7.2	8.8	1.3	.0	.0	153	17.4	8.6	18.5	14.0	14.0	15.7	21.9			
SW	4.0	8.4	1.0	.0	.0	118	13.4	9.3	18.9	17.0	17.0	6.2	12.4			
W	3.5	4.4	.5	.0	.0	74	8.4	8.2	17.8	9.3	9.3	5.9	11.1			
NW	7.3	8.3	.8	.0	.0	144	16.4	8.2	11.7	22.4	22.4	18.8	12.1			
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0			
CALM	13.4					118	13.4	.0	20.5	10.1	10.1	8.3	15.5			
TOT OBS	466	376	38	0	0	880		6.9	220	218	242	200				
TOT PCT	53.0	42.7	4.3	.0	.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0			

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				PCT OBS	
				11-21	22-33	34-47	48+		
0003	20.5	15.3	48.6	17.7	.9	.0	6.5	100.0	220
0609	10.1	15.1	56.0	17.9	.9	.0	7.0	100.0	218
1215	8.3	16.9	53.3	21.5	.0	.0	7.4	100.0	242
1821	15.5	12.5	55.0	16.5	.5	.0	6.4	100.0	200
TOT	118	126	468	183	5	0	6.9	100.0	880
PCT	13.4	14.3	53.2	18.5	.6	.0	.0	100.0	

TABLE 5

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

WIND DIR	PCT FREQ							TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-8	9-9	10-10	11-11		
NE	7.4	1.0	.9	.4	.0	.0	.0	68	1.5
E	2.9	.6	.8	.1	.0	.0	.0	30	2.0
SE	3.2	.8	.5	.1	.0	.0	.0	32	1.8
S	9.1	1.8	1.5	.3	.0	.0	.0	87	1.6
SW	12.9	1.5	1.6	.5	.0	.0	.0	115	1.3
W	10.8	1.1	.5	.4	.0	.0	.0	89	1.0
NW	5.9	1.4	.7	.6	.0	.0	.0	53	1.5
VAR	12.1	1.0	1.4	1.4	.0	.0	.0	117	1.7
CALM	.0	.0	.0	.0	.0	.0	.0	0	.0
TOT OBS	12.5	.7	.7	.7	.0	.0	.0	102	1.1
TOT PCT	535	69	59	33	0	0	0	696	1.4
TOT PCT	75.9	9.9	8.5	4.7	0.0	0.0	0.0	100.0	

TABLE 6

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

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)										TOTAL OBS			
	000	149	150	299	300	300	600	1000	2000	3500		5000	8000+	NH <5/8
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	68
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	36
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	37
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	115
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	89
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	53
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	117
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOT OBS	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	102
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	696
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1950-1971  
(OVER-ALL) 1870-1971

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AREA 0021 S. GULF OF OMAN  
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TABLE 7

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

CEILING (FEET)	OR >10	OR >5	OR >2	OR >1	OR >1/2	OR >1/4	OR >50YD	OR >0
OR >6500	.4	.5	.5	.5	.5	.7	.7	.7
OR >5000	.5	.7	.7	.7	.7	.8	.8	.8
OR >3500	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0
OR >2000	2.4	2.8	2.9	2.8	2.8	2.9	2.9	2.9
OR >1000	3.3	4.3	4.4	4.4	4.4	4.5	4.5	4.5
OR >600	3.7	4.7	4.8	4.8	4.8	4.9	4.9	4.9
OR >500	3.7	4.7	4.8	4.8	4.8	4.9	4.9	4.9
OR >150	3.7	4.7	4.8	4.8	4.8	4.9	4.9	4.9
OR >0	3.7	4.7	4.8	4.8	4.8	4.9	4.9	4.9
TOTAL	28	35	36	36	36	37	37	37

TOTAL NUMBER OF OBS 752

PCT FREQ NH <5/8 95.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	ORSCD	TOTAL OBS
	72.3	10.7	4.4	4.0	2.4	1.5	1.5	.9	2.1	.0	791

PERIOD: (PRIMARY) 1950-1971  
(OVER-ALL) 1970-1971

APRIL

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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)	PCP NO PCP TOT %	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	.0 .0 .0	.0 .0 .0	.0 .1 .1	.0 .0 .0	.0 .1 .1	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .3 .3
1/2<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
1<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 .5 .5
2<5	.0 .1 .1	.0 .1 .1	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.1 1.0 1.2
5<10	.0 2.1 2.1	.0 2.1 2.1	.0 .5 .5	.0 1.4 1.4	.0 1.3 1.3	.0 1.5 1.5	.0 .9 .9	.0 1.6 1.6	.0 .4 .4	.0 .0 .0	.0 .0 .0	.0 1.3 1.3	.1 11.1 11.3
10+	.0 7.2 7.2	.0 7.2 7.2	.0 3.8 3.8	.0 11.1 11.1	.0 15.1 15.1	.0 12.2 12.2	.0 7.0 7.0	.0 14.1 14.1	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 12.5 12.5	.4 86.4 86.8
TOT OBS		9.5	4.2	4.5	12.6	15.8	14.1	8.0	16.4	.0	14.0	100.0	781

PERIOD: (PRIMARY) 1950-1971  
(OVER-ALL) 1970-1971

APRIL

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TABLE 9

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

WSBY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	4-10	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.1	.0	.1	.1	.0	.0	.0	.0	.0	.5
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.1	.0	.1	.1	.0	.0	.0	.0	.0	.5
2/5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
	4-10	.1	.1	.0	.0	.0	.2	.0	.0	.0	.0	.0	.5
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.1	.0	.0	.1	.2	.0	.0	.0	.0	.0	.5
5<10	0-3	.2	.0	.1	.1	.1	.1	.1	.0	.0	.0	.0	2.2
	4-10	1.6	.5	.4	1.0	.9	.9	.7	1.5	.0	.0	.0	7.4
	11-21	.6	.2	.7	.3	.3	.5	.0	.4	.0	.0	.0	2.2
	TOT %	2.4	.7	1.2	2.4	2.3	2.5	1.7	3.6	.4	.0	.0	11.8
10+	0-3	1.0	.6	1.3	2.0	2.0	1.2	1.7	2.8	.0	12.0	25.2	
	4-10	3.8	2.5	2.3	7.5	9.3	7.7	3.8	7.7	.0	.0	44.7	
	11-21	1.6	.3	.3	1.5	4.2	3.0	1.5	3.4	.0	.0	15.8	
	TOT %	6.4	3.4	3.9	11.0	15.7	12.0	7.4	14.0	.0	12.0	86.3	853
TOT OBS		9.6	4.3	4.5	12.5	17.2	13.7	8.1	16.5	.0	13.6	100.0	
TOT PCT													



PERIOD (PRIMARY) 1950-1971  
(OVER-ALL) 1870-1971

APRIL

AREA 0021 S. GULF OF OMAN  
23.1N 59.2E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 478) AND OCCURRENCE OF NH < 578 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	8000+	TOTAL	NH < 578 ANY HGT	TOTAL	NH < 578 DBS
00003	.0	.0	.0	.5	1.0	.5	.5	.0	.0	.5	3.1	96.9	196
06009	.0	.0	.0	.0	1.5	1.0	.5	.0	.0	.5	3.6	96.4	195
12015	.0	.0	.0	.5	2.9	1.4	2.4	.5	.0	1.0	8.7	91.3	208
18021	.0	.0	.0	.6	.6	.6	1.1	.0	.6	.0	3.3	96.7	181
TOT	0	0	0	3	12	7	9	1	1	4	37	743	780
PCT	.0	.0	.0	.4	1.5	.9	1.2	.1	.1	.5	4.7	95.3	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 DBS
00003	.5	.0	.0	1.1	7.4	91.0	189
06009	.5	.0	.0	.0	13.1	86.4	191
12015	.0	.0	.0	2.5	9.1	88.4	198
18021	.0	.0	.0	.6	6.9	92.5	174
TOT	2	0	0	8	69	673	752
PCT	.3	.0	.0	1.1	9.2	89.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH > 478) BY HOUR

HOUR (GMT)	< 150	< 600	< 1000	1000+ NH < 578 DBS	< 578 AND 5+ DBS	TOTAL DBS
00003	.0	.5	2.1	2.1	95.8	189
06009	.0	.5	.5	3.7	95.8	191
12015	.0	.0	3.0	8.1	88.9	198
18021	.0	.0	1.1	2.9	96.0	174
TOT	0	2	13	32	707	752
PCT	.0	.3	1.7	4.3	94.0	100.0

APRIL

PERIOD: (PRIMARY) 1950-1971  
(COVER-ALL) 1870-1971

AREA 0021 S. GULF OF OMAN  
23.0N 59.2E

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	90-100	90-100		
95/99	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	1	.2
90/94	.0	.0	.6	.5	1.0	.6	.0	.0	.0	.0	17	2.7
85/89	.0	.0	.8	1.6	4.3	5.6	2.7	.5	.0	.0	97	15.6
80/84	.0	.2	1.4	2.1	8.2	13.2	11.6	5.6	.0	.0	263	42.2
75/79	.0	.0	.5	2.4	3.5	9.3	12.5	6.9	.0	.0	219	35.2
70/74	.0	.0	.0	.2	1.1	1.6	.8	.3	.0	.0	25	4.0
65/69	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	1	.2
TOTAL	.0	.0	1	4.3	11.3	19.0	17.2	8.3	.0	.0	623	100.0
PCT	.0	.2	3.4	6.9	18.1	30.5	27.6	13.3	.0	.0		

TABLE 14

TEMP F	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										TOTAL OBS	PCT FREQ
	H	NE	E	SE	S	SW	W	NW	VAR	CALM		
95/99	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
90/94	.0	.2	.3	.6	.4	.5	.2	.6	.0	.0	.0	.0
85/89	1.5	.8	.9	1.9	2.4	1.4	.7	2.4	.0	.0	3.2	5.2
80/84	3.1	1.4	2.0	5.9	8.3	6.3	3.0	7.6	.0	.0	4.5	7.3
75/79	3.0	1.2	1.0	5.3	5.6	5.1	2.5	4.8	.0	.0	5.5	8.8
70/74	.2	.3	.0	.5	.2	.0	.6	1.0	.0	.0	.5	.8
65/69	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	5.2	2.4	2.6	8.7	10.6	8.7	5.0	10.2	.0	.0	8.5	13.6
PCT	8.3	3.9	4.3	14.1	17.1	14.0	8.1	16.5	.0	.0	13.6	21.2

TABLE 15

HOUR (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL OBS
	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL		
0000	90	86	84	78	74	72	71	78.5	241		
0600	92	91	89	82	77	74	71	82.3	223		
1200	95	93	90	82	75	73	71	82.9	245		
1800	88	87	84	79	74	70	69	76.1	219		
TOT	95	91	88	80	75	71	69	80.7	930		

TABLE 16

HOUR (GMT)	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL OBS
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN		
0000	.0	3.3	11.0	20.5	20.6	20.5	25.4	81	173		
0600	.0	13.8	22.2	31.4	26.3	6.6	7.3	167	177		
1200	.0	15.9	23.7	33.9	19.6	5.4	7.2	177	155		
1800	.0	5.2	15.4	26.5	35.5	17.4	16	672	672		
TOT	0	67	122	206	185	92	76				

PERIOD (PRIMARY) 1950-1971  
(COVER-ALL) 1870-1971

APRIL

AREA 0021 S. GULF OF OMAN  
23.1N 59.2E

TABLE 17

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

AIR-SEA TMP DIF	69	72	76	73	77	81	82	89	93	TOT	M	WD
											FOG	FOG
14/15	.0	.0	.0	.0	.0	.0	.0	.3	.3	4	.0	.6
11/12	.0	.0	.0	.0	.0	.0	.4	1.4	.1	14	.0	1.9
9/10	.0	.0	.0	.0	.4	3.2	1.1	.0	.0	36	.0	3.0
7/8	.0	.0	.1	1.2	2.9	1.1	.0	.0	.0	27	.0	3.7
6	.0	.0	.1	1.0	3.3	1.7	.1	.0	.0	43	.0	5.9
5	.0	.0	.1	1.4	3.7	1.9	.0	.0	.0	45	.0	6.2
4	.0	.0	.3	3.6	5.8	1.0	.0	.0	.0	51	.0	7.0
3	.0	.0	.4	4.3	6.1	.1	.0	.0	.0	77	.0	10.6
2	.0	.0	.5	7.6	9.7	.1	.0	.0	.0	94	.1	12.9
1	.0	.0	1.4	9.0	2.8	.0	.0	.0	.0	95	.1	12.9
-1	.0	.0	2.8	3.9	1.2	.0	.0	.0	.0	57	.1	7.7
-2	.0	.0	1.4	3.0	.4	.0	.0	.0	.0	35	.0	4.8
-3	.4	.4	1.2	2.6	.0	.0	.0	.0	.0	31	.1	4.1
-4	.4	.4	.7	1.1	.1	.0	.0	.0	.0	15	.0	2.1
-5	.1	.4	.4	.0	.0	.0	.0	.0	.0	8	.0	1.1
-6	.1	.6	.4	.0	.0	.0	.0	.0	.0	8	.1	1.0
-7/-8	.3	.0	.1	.0	.0	.0	.0	.0	.0	3	.0	.4
-9/-10	1.4	.6	.9	2.8	2.3	1.0	.2	.4	.6	726	.5	7.21
TOTAL	10	69	285	239	100	25	3.4	4	.6	100.0	.7	99.3
PCT			9.5	25.3	32.1	13.6	3.4	.6				

APRIL  
TABLE 10  
AREA 0021 S. GULF OF OMAN  
23.1N 59.2E

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

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

	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
40T	1.5	2.0	.0	.0	.0	.0	3.5	.3	2.0	.0	.0	.0	.0	2.3
41	1.5	3.7	.0	.0	.0	.0	4.3	.0	1.8	.0	.0	.0	.0	2.6
42	.0	.5	1.9	.0	.0	.0	2.3	.0	.6	.0	.0	.0	.0	.0
43	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.2	.0	.0	.0	.2
44	.0	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
45	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
47	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
51	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
53	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
55	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
57	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
59	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
63	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
65	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
67	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.2	6.2	3.5	.0	.0	.0	11.9	.3	4.5	.2	.0	.0	.0	4.9

	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
40T	1.5	1.1	.0	.0	.0	.0	1.1	.6	1.2	.6	.0	.0	.0	2.5
41	1.5	1.6	.0	.0	.0	.0	1.1	.0	4.2	1.9	.0	.0	.0	6.0
42	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.6	.0	.0	.0	2.2
43	.0	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
45	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
46	.0	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
47	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
51	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
53	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
55	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
57	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
59	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
63	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
65	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
67	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.7	1.1	.0	.0	.0	2.8	.6	6.9	3.2	.0	.0	.0	10.8

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

TABLE 18

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

HGT	S										PCT	48+	34-47	22-33	11-21	4-10	1-3	SM	48+	PCT
	1-3	4-10	11-21	22-33	34-47	48+	34-47	22-33	11-21	4-10										
<1	1.2	2.3	.0	.0	.0	.0	.0	.0	.0	.0	3.5	.0	.0	.0	1.5	.0	.0	.0	.0	2.2
1-2	1.1	6.9	.6	.0	.0	.0	.0	.0	.0	.0	5.5	.0	.0	.0	4.3	.0	.0	.0	.0	4.6
3-4	.0	3.2	2.8	.0	.0	.0	.0	.0	.0	.0	6.0	.0	.0	.0	2.2	.0	.0	.0	.0	4.3
5-6	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	1.9
7	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.3	12.5	4.6	.0	.0	.0	.0	.0	.0	.0	19.4	.0	.0	.0	8.6	4.6	.0	.0	.0	13.6

HGT	N										PCT	48+	34-47	22-33	11-21	4-10	1-3	NW	48+	PCT
	1-3	4-10	11-21	22-33	34-47	48+	34-47	22-33	11-21	4-10										
<1	1.7	1.1	.0	.0	.0	.0	.0	.0	.0	.0	2.8	.0	.0	.0	2.4	.0	.0	.0	.0	6.8
1-2	.5	3.9	2.2	.0	.0	.0	.0	.0	.0	.0	6.5	.0	.0	.0	.0	.0	.0	.0	.0	7.6
3-4	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	7.9
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.2	6.9	2.2	.0	.0	.0	.0	.0	.0	.0	11.3	.0	.0	.0	2.6	13.7	9.0	.0	.0	25.3

PERIOD (PRIMAR/) 1963-1971  
(OVER-ALL)

APRIL

AREA 0021, S. GULF OF OMAN  
23.1N 59.2E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT				
<1	22.2	12.4	2.1	.0	.0	.0	36.6				
1-2	.6	26.8	4.6	.0	.0	.0	34.0				
3-4	.0	11.3	9.8	.0	.0	.0	21.1				
5-6	.0	1.0	5.2	.0	.0	.0	6.2				
7	.0	.0	1.5	.0	.0	.0	1.5				
8-9	.0	.0	.5	.0	.0	.0	.5				
10-11	.0	.0	.0	.0	.0	.0	.0				
12	.0	.0	.0	.0	.0	.0	.0				
13-16	.0	.0	.0	.0	.0	.0	.0				
17-19	.0	.0	.0	.0	.0	.0	.0				
20-22	.0	.0	.0	.0	.0	.0	.0				
23-25	.0	.0	.0	.0	.0	.0	.0				
26-32	.0	.0	.0	.0	.0	.0	.0				
33-40	.0	.0	.0	.0	.0	.0	.0				
41-48	.0	.0	.0	.0	.0	.0	.0				
49-60	.0	.0	.0	.0	.0	.0	.0				
61-70	.0	.0	.0	.0	.0	.0	.0				
71-85	.0	.0	.0	.0	.0	.0	.0				
87+	.0	.0	.0	.0	.0	.0	.0				
TOT PCT	24.7	51.5	23.7	.0	.0	.0	100.0				194

TABLE 19

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

PERIOD (SEC)	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)													TOTAL	MEAN HGT									
	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32			33-40	41-48	49-60	61-70	71-86	87+			
<1	12.3	24.7	16.4	3.0	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	343	2
1-2	.2	1.3	2.3	2.5	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	4
3-4	.0	.3	.8	.3	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	4
5-6	.0	.5	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	4
7	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
8-9	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	7
10-11	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	199	1
12	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	604	2
TOTAL	226	194	130	40	8	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.0	
PCT	37.4	32.1	21.5	6.6	1.3	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		

PERIOD: (PRIMARY) 1951-1971  
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N.Y

AREA 0021 S. GULF OF OMAN  
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TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHR	RAIN SHR	PRECIPITATION TYPE				MILT	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA						TOTAL OBS
			DRZL	FRZG PCPN	SNOW	OTHER PRZN					FOG	SNDK	OUST	BLWG	DUST	SIG	
N	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.8	.2	4.4	46			
NE	.0	.0	.0	.0	.0	.0	.0	0	.1	.6	.4	.4	1.7	20			
E	.0	.0	.0	.0	.0	.0	.0	0	.0	.4	.1	.1	4.9	45			
SE	.0	.0	.0	.0	.0	.0	.0	0	.0	.3	1.1	.3	13.0	120			
S	.0	.0	.0	.0	.0	.0	.0	0	.0	.2	2.1	.2	18.7	177			
SW	.0	.0	.0	.0	.0	.0	.0	0	.0	.1	1.4	.5	18.1	168			
W	.0	.0	.0	.0	.0	.0	.0	0	.0	.1	.1	.4	8.0	71			
NW	.0	.0	.0	.0	.0	.0	.0	0	.0	.1	.4	.8	10.8	101			
VAR	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0			
CALM	.0	.0	.0	.0	.0	.0	.0	0	.1	.8	.4	.4	9.1	87			
TOT OBS	.0	.0	.0	.0	.0	.0	.0	0	.2	.65	.24	.24	74.2	837			
TOT PCT	.0	.0	.0	.0	.0	.0	.0	0	.2	7.8	2.9	2.9	88.6	100.0			

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN SHR	RAIN SHR	DEZL	PRECIPITATION TYPE				MILT	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA						TOTAL OBS
				FRZG PCPN	SNOW	OTHER PRZN	FOG					SNDK	OUST	BLWG	DUST	SIG	NO	
0000	.0	.0	.0	.0	.0	.0	.0	.0	0	.5	6.8	1.8	90.5	222				
0600	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	8.2	3.2	88.6	219				
1200	.0	.0	.0	.0	.0	.0	.0	.0	0	.9	11.4	5.5	82.2	219				
1800	.0	.0	.0	.0	.0	.0	.0	.0	0	.5	5.0	.5	99.6	219				
TOT	.0	.0	.0	.0	.0	.0	.0	.0	0	.2	7.6	2.4	78.0	879				
PCT	.0	.0	.0	.0	.0	.0	.0	.0	0	.2	7.6	2.7	88.7	100.0				

MAY

PERIOD: (PRIMARY) 1951-1971  
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AREA 0021 S. GULF OF OMAN  
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TABLE 3  
PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)									
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	
N	1.4	3.4	.7	.0	.0	.0	47	5.2	5.8	
NE	1.8	1.3	.2	.0	.0	.0	21	2.4	5.9	
E	1.0	3.6	.5	.0	.0	.0	46	5.1	6.1	
SE	2.5	9.5	2.2	.1	.0	.0	130	14.3	7.0	
S	3.1	9.8	7.8	.5	.0	.0	193	21.2	9.8	
SW	1.3	11.3	8.0	.5	.0	.0	191	21.0	10.1	
W	1.9	4.6	2.0	.3	.0	.0	80	8.8	8.1	
NW	1.7	6.5	3.3	.3	.0	.0	107	11.7	8.9	
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	
CALM	10.2	45.6	22.2	1.4	0	0	93	10.2	7.7	
TOT OBS	21.9	24.4	22.2	1.4	0	0	511	100.0	7.7	
TOT PCT	24.0	50.1	24.4	1.5	.0	.0				

WIND DIR	HOUR (GMT)											
	00	03	06	09	12	15	18	21	00	03	06	09
N	4.5	7.7	5.5	9.6	8.4	.0	2.7	.0				
NE	3.2	3.8	2.9	13.5	2.7	.0	2.0	.0				
E	12.0	10.0	10.0	17.3	17.4	7.7	4.0	.0				
SE	21.9	11.5	21.1	16.3	19.0	15.4	18.3	8.3				
S	28.2	30.8	20.9	14.4	14.4	23.1	23.0	37.5				
SW	10.9	11.5	9.4	7.7	5.8	14.2	8.3	12.5				
W	7.3	34.6	16.2	11.5	15.6	.0	7.8	.0				
NW	.0	.0	.0	.0	.0	.0	.0	.0				
CALM	13.4	.0	8.3	7.7	8.6	7.7	12.2	.0				
TOT OBS	21.5	13	20.5	26	22.1	13	20.5	12				
TOT PCT	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)									
	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD		
N	3.4	1.8	.0	.0	.0	47	5.2	5.8		
NE	1.7	.7	.0	.0	.0	21	2.4	5.9		
E	3.3	1.7	.1	.0	.0	46	5.1	6.1		
SE	7.4	6.4	.3	.0	.0	130	14.3	7.0		
S	6.1	12.0	3.3	.0	.0	193	21.2	9.8		
SW	6.5	11.6	2.3	.0	.0	191	21.0	10.1		
W	4.1	4.2	.3	.0	.0	80	8.8	8.1		
NW	4.4	6.2	1.3	.0	.0	107	11.7	8.9		
VAR	.0	.0	.0	.0	.0	0	.0	.0		
CALM	10.2	4.9	7.8	0	0	93	10.2	7.7		
TOT OBS	530	44.9	7.8	0	0	911	100.0	7.7		
TOT PCT	47.2	44.9	7.8	0	0					

WIND DIR	HOUR (GMT)											
	00	03	06	09	12	15	18	21	00	03	06	09
N	4.3	4.3	6.0	7.9	2.5							
NE	1.0	1.0	4.1	2.6	1.8							
E	3.1	3.1	5.3	6.1	3.8							
SE	11.6	11.6	10.8	17.3	17.7							
S	21.3	21.3	20.6	19.2	23.8							
SW	26.4	26.4	20.1	15.1	22.8							
W	10.9	10.9	9.2	6.5	8.5							
NW	8.8	8.8	15.7	14.7	7.4							
VAR	.0	.0	.0	.0	.0							
CALM	12.7	12.7	8.2	8.5	11.5							
TOT OBS	229	229	231	234	217							
TOT PCT	100.0	100.0	100.0	100.0	100.0							



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TABLE 4

PERIOD: (PRIMARY) 1951-1971  
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PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)				PCT		TOTAL OBS			
	CALM	1-3	4-10	11-21	22-33	34-47		48+	MEAN	FREQ
0000	12.7	11.4	50.2	24.9	.9	.0	.0	7.6	100.0	229
0600	8.2	13.9	49.8	26.8	1.3	.0	.0	8.0	100.0	231
1200	8.5	15.8	49.6	24.4	1.7	.0	.0	7.9	100.0	234
1800	11.5	14.3	50.7	21.2	2.3	.0	.0	7.4	100.0	217
TOT	9.3	12.6	45.6	22.2	1.4	.0	.0	7.7		911
PCT	10.2	13.8	50.1	24.4	1.5	.0	.0	100.0		

TABLE 5

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

WIND DIR	PCT FREQ								TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-6	7-5	6-4	5-3	4-2		
N	4.2	.1	.1	.1	.1	.1	.1	.1	39	.6
NE	1.8	.3	.3	.0	.0	.0	.0	.0	18	1.4
E	4.0	.5	.3	.1	.3	.1	.1	.1	38	1.1
SE	12.5	1.3	.6	.0	.0	.0	.0	.0	111	.6
S	19.4	1.1	.7	.2	.2	.2	.2	.2	165	.6
SW	18.3	.2	1.2	.4	.4	.4	.4	.4	156	.7
W	8.1	.3	.1	.1	.1	.1	.1	.1	56	.4
NW	10.8	.7	.3	.4	.4	.4	.4	.4	91	.5
VAR	10.0	.0	.0	.0	.0	.0	.0	.0	0	.0
CALM	10.7	.1	.3	.0	.0	.0	.0	.0	86	.2
TOT OBS	700	36	30	8	8	8	8	8	774	.6
TOT PCT	90.4	4.7	3.9	1.0	1.0	1.0	1.0	1.0	100.0	

TABLE 6

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

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH > 4/8										TOTAL OBS						
	000	149	150	299	300	599	600	1000	2000	3499		3500	5000	6499	7999	8000+	ANY HGT
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	39
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	111
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	165
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	156
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	66
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	91
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	86
TOT OBS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	774
TOT PCT	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	100.0

PERIOD: (PRIMARY) 1951-1971  
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TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >478) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)					
	>10	>5	>2	>1	>1/2	>1/4
OR >5000	.2	.2	.2	.2	.2	.2
OR >5000	.4	.4	.4	.4	.4	.4
OR >3500	.4	.4	.4	.4	.4	.4
OR >2000	1.0	1.0	1.0	1.0	1.0	1.0
OR >1000	1.5	1.5	1.5	1.5	1.5	1.5
OR >600	1.7	1.7	1.8	1.8	1.8	1.8
OR >300	1.7	1.7	1.8	1.8	1.8	1.8
OR >150	1.7	1.8	2.0	2.0	2.0	2.0
OR > 0	1.7	2.0	2.2	2.2	2.2	2.2
TOTAL	14	15	18	18	18	18

TOTAL NUMBER OF OBS: 816

PCT FREQ NH <578: 97.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL
0	0.2	0.0	1.1	1.2	0.7	0.4	0.6	0.2	0.2	838
										838

PERIOD: (PRIMARY) 1951-1971  
(OVER-ALL) 1911-1971

HAY

AREA 0021 S. GULF OF OHAN  
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TABLE B

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR 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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	.2	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.6
2<5	.1	.0	.1	.4	.1	.2	.0	.2	.0	.0	.0	1.2
5<10	.3	.7	1.0	2.8	4.1	3.6	1.0	1.9	.0	.0	1.8	17.3
10+	4.7	1.7	4.2	10.9	16.7	16.3	7.6	10.1	.0	.0	8.6	80.8
TOT OBS	5.5	2.4	5.4	14.3	21.2	20.1	8.5	12.1	.0	10.4	100.0	837

PERIOD: (PRIMARY) 1951-1971  
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MAY

AREA 0021 S. GULF OF OHAN  
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TABLE 9

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

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.0
	TOT *	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.0
	4-10	.2	.0	.0	.1	.1	.0	.0	.0	.0	.0	.4	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT *	.2	.0	.1	.1	.1	.0	.0	.0	.0	.0	.5	.0
2<3	0-3	.0	.0	.1	.1	.0	.0	.1	.0	.0	.0	.3	.0
	4-10	.0	.0	.0	.2	.2	.2	.0	.1	.0	.0	.5	.0
	11-21	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.2	.0
	TOT *	.1	.0	.1	.4	.2	.4	.1	.1	.0	.0	1.5	.0
5<10	0-3	.3	.2	.1	.7	.5	.2	.4	.1	.0	1.8	4.3	.0
	4-10	.1	.3	.7	1.7	2.0	1.9	.4	.6	.0	.0	7.7	.0
	11-21	.0	.1	.1	.5	1.4	1.4	.2	1.0	.0	.0	4.6	.0
	TOT *	.4	.7	.9	2.8	4.0	3.7	1.0	1.7	.0	1.8	17.0	.0
10+	0-3	1.1	.6	.7	1.8	2.7	1.2	1.4	1.5	.0	8.5	19.5	.0
	4-10	3.1	1.0	3.0	7.5	7.5	9.2	4.1	5.7	.0	.0	41.0	.0
	11-21	.3	.1	.4	1.7	6.4	6.2	1.7	2.2	.0	.0	19.0	.0
	TOT *	4.5	1.7	4.0	11.0	16.9	16.8	7.5	9.8	.0	8.5	80.8	.0
TOT OBS												904	
TOT PCT		5.3	2.4	5.1	14.3	21.3	20.9	8.6	11.7	.0	10.3	100.0	

MAY

PERIOD: (PRIMARY) 1951-1971  
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AREA C021 S. GULF OF OMAN  
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TABLE 10

HOUR (GMT)	PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR										TOTAL NH <5/8 OBS	TOTAL NH <5/8 ANY HGT OBS	
	000 149	150 295	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	10000+			TOTAL
00003	.0	.0	.0	1.0	.5	.5	.0	.0	.0	.0	2.4	97.6	207
06009	.5	.0	.0	.5	.5	.5	.0	.0	.0	.0	1.9	98.1	207
12015	.5	.0	.0	.0	.5	.0	.0	.5	.0	.0	1.4	98.6	210
18021	.0	.5	.0	.0	.5	1.4	.0	.0	.5	.0	2.8	97.2	214
TOT	2	1	0	3	4	5	0	1	2	0	18	820	838
PCT	.2	.1	.0	1.4	.5	.6	.0	.1	.2	.0	2.1	97.9	100.0

TABLE 11

HOUR (GMT)	PERCENT FREQUENCY VSBY (NH) BY HOUR										TOTAL OBS	
	<1/2	1/2<1	1<2	2<5	5<10	10+	10+	10+	10+	10+		
00003	.5	.0	.0	1.5	14.3	83.7	205					
06009	.0	.0	.0	1.0	19.3	79.7	202					
12015	.0	.0	.5	1.5	15.9	82.1	201					
18021	.0	.0	.0	1.0	16.2	82.9	210					
TOT	1	0	1	12	134	670	816					
PCT	.1	.0	.1	1.2	16.4	82.1	100.0					

TABLE 12

HOUR (GMT)	CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR CEILING HGT (FEET, NH >4/8) BY HOUR										TOTAL OBS
	<150 <5000	<150 <5000	<600 <1000	<1 <5	<1 <5	<1 <5	<1 <5	<1 <5	<1 <5	<1 <5	
00003	.0	.0	.5	2.5	1.5	96.1	203				
06009	.5	.5	1.5	1.0	97.5	202					
12015	.5	.5	2.5	1.0	96.5	201					
18021	.0	.5	1.4	2.4	96.2	210					
TOT	2	4	16	12	789	816					
PCT	.2	.5	2.0	1.5	96.5	100.0					

PERIOD: (PRIMARY) 1951-1971  
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MAY

AREA 0021, S. GULF OF OMAN  
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TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	90-100			
75/99	.0	.0	.1	.6	.1	.1	.0	.0	.0	.0	7	1.0
80/94	.0	.1	1.0	2.2	5.7	5.3	1.2	1.0	1.0	1.0	120	17.5
85/89	.0	.0	.4	2.3	6.7	14.6	13.7	4.2	4.2	4.2	288	42.1
80/84	.0	.0	.0	.3	3.9	7.3	16.2	9.9	9.9	9.9	251	36.7
75/79	.0	.0	.0	.0	.0	.7	1.2	.7	.7	.7	18	2.6
TOTAL	.0	.1	1.1	4.4	11.3	19.2	22.1	10.2	10.2	10.2	684	100.0
PCT	.0	.1	1.6	6.4	16.5	28.1	32.3	14.9	14.9	14.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP												
		N	NE	E	SE	S	SW	W	NW	VAR	VAR	CALM
75/99		.1	.0	.1	.2	.3	.3	.0	.1	.0	.0	.1
80/94		1.9	.1	.7	2.5	2.7	2.9	1.6	2.8	.0	.0	2.0
85/89		2.6	2.2	2.3	6.3	7.0	7.0	3.3	6.1	.0	.0	4.8
80/84		1.0	.4	2.4	3.3	3.4	10.0	3.6	2.0	.0	.0	2.6
75/79		.4	.0	.1	.1	.9	.3	.0	.5	.0	.0	.3
TOTAL		4.1	1.8	3.9	10.1	13.8	13.8	6.0	7.5	.0	.0	6.8
PCT		6.1	2.7	5.7	14.8	20.3	20.2	8.8	11.5	.0	.0	9.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR													
HOUR (GMT)	MAX		99%		95%		50%		1%		MIN		TOTAL OBS
	94	93	94	93	83	79	78	78	65	65	83.6	237	
0003	97	95	94	86	81	78	78	78	76	76	84.7	241	
0609	98	95	94	88	82	80	80	70	70	88.0	237		
1215	93	92	90	84	80	79	79	78	78	84.7	231		
1821	97	95	93	85	80	78	78	69	69	85.8	944		
TOT													

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR													
HOUR (GMT)	0-29		30-39		60-69		70-79		80-89		90-100		TOTAL OBS
	0	0	3.8	12.6	12.6	20.9	37.4	20.2	79				
0003	.0	.0	8.5	19.3	19.3	31.8	31.3	9.1	7.5	176			
0609	.0	.0	12.6	24.0	24.0	32.2	22.4	8.7	7.3	183			
1215	.0	.0	4.0	10.2	10.2	26.1	38.1	21.6	8.1	176			
1821	.0	.0	6.1	11.5	11.5	19.9	23.1	10.7	7.7	717			
TOT													

PERIOD: (PRIMARY) 1951-1971  
(OVER-ALL) 1911-1971

MAY

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 17

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

AIR-SEA TMP DIF	77	81	85	89	93	TOT	M	MO
	80	84	88	92	96	FOG	FOG	FOG
14/16	.0	.0	.0	.1	.3	5	.0	.5
13/13	.0	.0	.1	.4	.5	8	.0	1.0
9/10	.0	.0	.4	1.4	1.6	25	.0	3.4
7/8	.0	.1	1.4	4.3	2.0	60	.0	7.9
6	.0	.4	2.0	2.2	.5	39	.0	5.1
5	.1	.4	2.7	2.5	.1	45	.0	5.9
4	.0	1.2	3.3	2.2	.1	52	.0	6.8
3	.1	2.0	5.1	2.4	.0	73	.0	9.0
2	.1	3.5	5.8	1.3	.0	82	.1	17.6
1	.5	4.6	5.9	.0	.0	91	.0	11.9
0	.9	7.2	6.0	.3	.0	114	.0	14.7
-1	1.0	4.6	2.4	.1	.0	64	.0	8.4
-2	1.3	3.1	1.7	.0	.0	47	.1	6.0
-3	.5	1.8	.3	.0	.0	20	.0	2.6
-4	.5	1.7	.1	.0	.0	18	.0	2.4
-5	.4	1.0	.0	.0	.0	11	.0	1.4
-6	.5	.0	.0	.0	.0	4	.0	.5
-7/8	.1	.5	.0	.0	.0	5	.0	.7
TOTAL	48	246	286	143	39	764	.4	759
PCT	6.3	32.2	37.4	18.7	5.1	100.0	.5	99.3

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

MAY  
TABLE 13

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

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

HGT	N				NE				48+	PCT			
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10			11-21	22-33	34-47
1-3	.0	2.1	.0	.0	.0	.0	.6	.1	.0	.0	.0	.0	.7
4-10	.0	1.2	.0	.0	.0	.0	.6	.3	.0	.0	.0	.0	1.5
11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22-33	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
34-47	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
48+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.2	.0	.0	.0	.0	1.2	1.0	.6	.0	.0	.0	2.8

HGT	E				SE				48+	PCT			
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10			11-21	22-33	34-47
1-3	.0	.0	.0	.0	.0	.0	.9	2.4	.6	.0	.0	.0	3.8
4-10	.0	3.7	.0	.0	.0	.0	.0	3.4	.6	.0	.0	.0	4.0
11-21	.0	.0	.0	.0	.0	.0	.0	1.8	3.1	.0	.0	.0	5.4
22-33	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.6
34-47	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
48+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.3	1.0	.0	.0	.0	1.5	7.5	4.9	.0	.0	.0	13.8



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

MAY  
TABLE 18

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

P: T FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S				SH				PCT	
	1-3	4-10	11-21	22-33	34-47	48+	22-33	34-47		
<1	1.5	1.9	2.0	2.0	2.0	2.0	2.0	2.0	1.8	
1-2	1.6	5.7	2.1	2.0	2.0	2.0	2.0	2.0	10.3	
3-4	2.0	4.6	5.6	2.0	2.0	2.0	2.0	2.0	8.2	
5-6	2.0	2.0	3.1	2.0	2.0	2.0	2.0	2.0	4.6	
7	2.0	2.0	1.2	2.0	2.0	2.0	2.0	2.0	1.2	
8-9	2.0	2.0	1.9	2.0	2.0	2.0	2.0	2.0	1.5	
10-11	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
12	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
13-16	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
17-19	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
20-22	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
23-25	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
26-32	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
33-40	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
41-48	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
49-60	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
61-70	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
71-86	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
87+	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
TOT PCT	2.1	12.2	12.8	16	27.6	27.6	11.9	13.7	1.8	27.5

HGT	S				SH				PCT	
	1-3	4-10	11-21	22-33	34-47	48+	22-33	34-47		
<1	1.6	2.6	1.6	2.0	2.0	2.0	2.0	2.0	2.0	
1-2	2.0	3.1	1.2	2.0	2.0	2.0	2.0	2.0	5.0	
3-4	2.0	1.0	2.6	2.0	2.0	2.0	2.0	2.0	2.9	
5-6	2.0	2.0	2.6	2.0	2.0	2.0	2.0	2.0	2.6	
7	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
8-9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
10-11	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
12	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
13-16	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
17-19	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
20-22	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
23-25	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
26-32	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
33-40	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
41-48	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
49-60	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
61-70	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
71-86	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
87+	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
TOT PCT	1.0	4.7	2.4	10	8.7	8.7	5.1	3.5	1.0	9.3

PERIOD: (PRIMARY)  
(OVERALL): 1963-1971

MAY

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 18 (CONT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-23	34-47	48+	PCT	TOT OBS
<1	22.0	7.7	.5	.0	.0	.0	30.1	
1-2	2.4	23.4	6.7	.0	.0	.0	32.5	
3-4	.5	9.6	13.4	.5	.0	.0	23.9	
5-6	.0	.5	8.1	1.0	.0	.0	9.6	
7	.0	.0	1.9	.0	.0	.0	1.9	
8-9	.0	.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	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-43	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	24.3	41.1	31.6	2.4	.0	.0	100.0	209

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	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	24.2	15.0	4.0	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	371
6-7	.0	2.2	4.3	2.6	.3	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	67
8-9	.0	.2	.3	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10
10-11	.0	.3	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7
12-13	.0	.0	.2	.0	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
213	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDEX	18.1	4.7	4.2	1.2	.2	.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	186
TOTAL	199	206	153	58	13	12	1	0	1	0	0	0	0	0	0	0	0	0	0	0	643
PCT	30.9	31.9	24.0	9.0	2.0	1.9	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

JUNE

PERIOD: (PRIMARY) 1950-1971  
(OVER-ALL) 1910-1971

AREA 0021 S. GULF OF OMAN  
29.JN 59.2E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN		ORZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OBS TIME	TOTAL PCPN	THOR L7NG	OTHER WEATHER PHENOMENA					TOTAL OBS
	SHWR	SHWR		FRZG	SNOW	OTHER					PCPN	PCPN	FOG	SMOKE	HAZE	
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.5	.2	.2	.3	35
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.0	.1	.1	3.5	29
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	1.8	.5	.5	5.6	67
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	3.8	.6	.6	13.6	151
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	4.8	.7	.7	19.7	212
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	3.0	.3	.3	14.3	148
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.3	.3	4.7	49
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.6	.3	.3	6.5	64
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.1	.0	.0	.0	.0	.0	.0	.1	1	.0	.0	1.5	.2	.2	6.4	70
TOT OBS	1	0	0	0	0	0	0	.1	1	.2	.7	15.0	.7	.7	65.2	839
TOT PCT	.1	.0	.0	.0	.0	.0	.0	.1	1	.2	.8	17.9	.8	.8	77.7	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GAT)	RAIN		ORZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OBS TIME	TOTAL PCPN	THOR L7NG	OTHER WEATHER PHENOMENA					TOTAL OBS
	SHWR	SHWR		FRZG	SNOW	OTHER					PCPN	PCPN	FOG	SMOKE	HAZE	
0003	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	1.7	12.8	2.5	2.5	91.2	239
0609	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	16.5	5.2	5.2	77.1	221
1215	.4	.0	.0	.0	.0	.0	.0	.4	1	.0	.0	22.0	3.5	3.5	74.0	227
1821	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19.2	2.4	2.4	78.4	208
TOT	1	0	0	0	0	0	0	.1	1	.2	.7	15.1	.7	.7	70.5	905
PCT	.1	.0	.0	.0	.0	.0	.0	.1	1	.2	.8	17.8	.8	.8	77.7	100.0

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PERIOD: (PRIMARY) 1950-1971  
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AREA 0021 S. GULF OF OMAN  
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TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

DIR	WIND SPEED (KNOTS)										HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL ORS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.6	2.8	.5	.0	.0	.0	35	3.9	6.9	2.4	.0	5.9	.0	5.6	.0	2.7	3.5
NE	.7	3.9	.4	.0	.0	.0	44	4.8	6.1	3.7	.0	5.5	9.5	7.9	12.5	1.8	1.2
E	1.1	5.0	1.3	.0	.0	.0	78	8.6	7.3	5.5	23.5	17.3	20.2	14.3	16.7	5.3	.0
SE	2.8	11.9	3.1	.3	.0	.0	165	18.1	7.7	13.0	8.8	17.6	15.5	21.7	29.2	20.9	16.7
S	1.9	11.0	11.0	1.0	.1	.0	228	25.0	11.4	30.2	26.5	22.5	23.8	19.2	23.8	28.2	26.2
SW	.4	17.1	8.4	2.0	.1	.0	163	17.9	13.5	23.0	11.8	13.3	11.9	12.7	12.5	22.0	16.7
W	.6	5.2	1.8	.1	.1	.0	53	5.8	9.7	6.5	11.8	7.3	9.5	2.9	8.9	5.7	9.5
NW	1.3	4.7	1.6	.0	.0	.0	70	7.7	7.7	5.5	17.6	9.6	.0	9.6	8.3	5.7	11.9
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.2	54	256	31	2	0	75	8.2	9.0	10.3	.0	9.0	9.5	6.1	.0	7.7	14.3
TOT ORS	161	508	2810	364	2	0	914	100.0	9.0	223	17	212	21	214	12	194	21
TOT PCT	17.6	50.8	281.0	36.4	.2	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

DIR	WIND SPEED (KNOTS)						HOUR (GMT)									
	0-6	7-16	17-27	28-40	41+	TOTAL ORS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.4	1.4	.2	.0	.0	35	3.9	6.9	2.2	3.4	5.4	5.3	5.3	2.8	2.8	
NE	3.3	1.5	.2	.0	.0	44	4.8	6.1	3.4	3.4	5.9	8.2	1.7	1.7		
E	4.5	3.9	.2	.0	.0	78	8.6	7.3	6.8	6.8	6.5	14.4	4.8	4.8		
SE	9.1	8.1	.8	.1	.0	165	18.1	7.7	12.7	12.7	17.4	22.1	20.5	20.5		
S	6.6	12.7	5.8	.2	.0	228	25.0	11.4	25.9	25.9	22.6	19.2	28.0	28.0		
SW	2.3	9.4	5.8	.4	.0	163	17.9	13.5	22.2	22.2	15.0	12.7	21.5	21.5		
W	2.1	3.1	.6	.1	.0	53	5.8	9.7	6.9	6.9	7.5	2.8	6.0	6.0		
NW	3.8	3.4	.5	.0	.0	70	7.7	7.7	6.4	6.4	8.7	9.5	6.3	6.3		
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	8.2	398	123	7	0	75	8.2	9.0	9.6	9.6	9.0	5.8	8.4	8.4		
TOT ORS	386	433	123	7	0	914	100.0	9.0	240	240	233	226	213	213		
TOT PCT	42.2	43.3	13.5	.8	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

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PERIOD: (PRIMARY) 1950-1971  
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TABLE 4

HOUR	CALM	PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)					TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	
00003	9.6	8.2	46.7	27.9	6.7	.8	240
06009	9.0	9.9	51.9	26.6	2.6	.0	233
12015	5.8	11.9	52.7	27.0	2.7	.0	226
18021	3.4	7.4	52.1	30.7	1.4	.0	215
TJT	75	86	464	255	31	2	914
PCY	3.2	9.4	50.8	28.0	3.4	.2	

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCO	8 & TOTAL OBS	MEAN CLOUD COVER
N	4.0	.3	.0	.0	31	.4
NE	3.1	.8	.5	.3	35	1.8
E	7.1	1.1	1.1	1.1	63	.8
SE	15.5	1.9	1.3	.1	132	.9
S	20.7	1.5	2.0	.7	184	1.0
SW	13.3	2.0	1.9	.8	132	1.6
W	5.1	.3	.4	.0	43	.8
NW	7.4	.2	.3	.0	56	.6
VAR	.0	.0	.0	.0	0	.0
CALC	8.1	.3	.1	.1	64	.4
TOT OBS	122	16	49	16	742	1.0
TOT PCT	10.8	1.6	6.5	2.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 478)  
AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION

WIND DIR	0-2		3-4		5-7		8 & OBSCO		8 & TOTAL OBS		MEAN CLOUD COVER		PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 478) AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION		TOTAL OBS				
	000	149	150	299	150	299	300	599	600	999	1000	1599	3499	5000		6500	8000+	ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	62
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	132
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	184
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	132
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	43
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	56
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALC	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	64
TOT OBS	122	16	49	16	742	16	742	16	742	16	742	16	742	16	742	16	742	16	742
TOT PCT	10.8	1.6	6.5	2.2	100.0	1.6	100.0	1.6	100.0	1.6	100.0	1.6	100.0	1.6	100.0	1.6	100.0	1.6	100.0

PERIOD: (PRIMARY) 1950-1971  
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TABLE 7

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

CEILING (FEET)	>10		>5		>2		VSBY (NH)		>1/2		>1/4		>50YD		>0	
	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR
OR >6500	.4	.7	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4
OR >5000	.6	.7	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9
OR >3500	.7	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
OR >2000	1.1	2.9	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
OR >1000	1.2	3.2	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
OR >600	1.5	3.6	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
OR >300	1.5	3.6	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
OR >150	1.5	3.6	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
OR >0	1.5	3.6	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
TOTAL	12	29	31	31	31	31	31	31	31	31	31	31	31	31	31	31

TOTAL NUMBER OF OBS: 801

PCT FREQ NH <5/8: 96.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCO	TOTAL
	75.3	11.6	3.6	2.7	2.2	1.1	1.6	1.2	.7	.0	830

PERIOD: (PRIMARY) 1950-1971  
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TABLE 8

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

WIND (KMPH)	PCP NO PCP TOT %	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP NO PCP TOT %	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0
1/2<1	PCP NO PCP TOT %	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.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<2	PCP NO PCP TOT %	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.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<5	PCP NO PCP TOT %	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0
5<10	PCP NO PCP TOT %	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0
10+	PCP NO PCP TOT %	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0
TOT OBS	TOT PCT	4.2	4.7	8.1	18.2	25.3	17.5	5.9	7.7	.0	8.4	100.0	897

PERIOD: (PRIMARY) 1950-1971  
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TABLE 9

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

VSRY (RM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR CALM	PCT TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.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
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.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
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.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
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	0-3	.1	.2	.7	.6	.6	.1	.3	.4	.0	.1
	4-10	.9	1.3	2.5	4.0	4.5	2.4	.7	1.4	.0	17.6
	11-21	.3	.2	.5	.5	4.8	4.0	.3	.5	.0	11.2
	TOT %	1.3	1.7	3.8	5.2	10.4	7.3	1.3	2.3	.0	35.3
10+	0-3	.5	.4	.4	1.9	1.2	.1	.4	1.0	.0	11.8
	4-10	1.9	2.4	3.3	7.3	6.1	4.1	2.5	3.1	.0	30.8
	11-21	.2	.2	.7	2.4	5.4	3.9	1.3	1.1	.0	15.3
	TOT %	2.6	3.0	4.5	11.8	12.3	8.9	4.3	5.2	.0	59.5
TOT OBS		4.0	4.9	8.7	12.3	24.8	17.6	5.7	7.8	.0	904
TOT PCT										8.3	100.0



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TABLE 10

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

HOUR (GMT)	PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH > 4/8) AND OCCURRENCE OF NH < 5/8 BY HOUR										TOTAL NH < 5/8 ANY HGT OBS			
	000	150	300	450	600	750	900	1050	1200	1350		1500		
00003	.0	.0	.0	.0	.0	.5	.9	1.4	.5	.0	.5	3.8	96.2	212
06000	.0	.0	.0	.0	.5	.5	2.8	.5	.5	.0	.0	4.6	15.4	216
12015	.0	.0	.0	.0	.0	.5	2.0	.5	.5	.0	1.0	6.5	99.5	261
18021	.0	.0	.0	.0	1.0	.5	.0	.0	.5	.0	.0	2.1	97.9	194
TOT	0	0	0	0	3	4	12	5	4	0	3	31	792	823
PCT	.0	.0	.0	.0	.4	.5	1.5	.6	.5	.0	.4	3.8	94.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	PERCENT FREQUENCY VSBY (NH) BY HOUR										TOTAL OBS	
	< 1/2	1/2 < 1	1 < 2	2 < 5	5 < 10	10 < 20	20 < 40	40 < 60	60 < 80	80 < 100		
00003	.0	.0	.0	4.9	29.1	66.0	206					
06009	.0	.0	.0	6.7	33.5	59.8	209					
12015	.5	.0	.0	4.0	41.4	53.5	198					
18021	.0	.0	.0	4.3	32.4	62.3	188					
TOT	1	0	1	40	273	486	801					
PCT	.1	.0	.1	5.0	34.1	60.7	100.0					

TABLE 12

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

HOUR (GMT)	CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR CEILING HGT (FEET) NH > 4/8) BY HOUR				TOTAL NH < 5/8 ANY HGT OBS
	< 150 < 5000 FT	< 600 < 1000 FT	< 1000 < 5 ANDS+ FT	< 1000 < 5 ANDS+ FT	
00003	.0	.0	4.9	3.9	91.3
06009	.0	.0	7.2	3.8	89.0
12015	.5	.5	5.1	4.0	90.9
18021	.0	.0	5.3	1.1	93.6
TOT	1	1	45	26	730
PCT	.1	.1	5.6	3.2	91.1

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PERIOD: (PRIMARY) 1950-1971  
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TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL DBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	90-100			
95/99	.0	.0	.2	.5	.8	.6	.3	.5			18	2.7
90/94	.0	.0	.3	2.0	5.3	12.4	5.2	.6			170	25.8
85/89	.0	.0	.0	.2	1.4	9.6	20.8	5.3			243	37.2
80/84	.0	.0	.0	.0	.5	2.3	15.0	10.6			187	28.4
75/79	.0	.0	.0	.0	.0	.0	2.4	3.3			38	5.8
70/74	.0	.0	.0	.0	.0	.0	.0	.2			1	.2
TOTAL	0	0	3	17	52	104	288	135			659	100.0
PCT	.0	.0	.5	2.6	7.9	24.9	43.7	20.5				

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP												
	N	NE	E	SE	S	SW	W	NW	VAR	CALM		
	.2	.0	.0	.8	.2	.1	.3	.8	.0	.3		
	1.7	2.1	3.4	4.6	3.8	3.4	2.5	3.8	.0	2.4		
	1.9	2.5	4.0	8.3	7.9	3.9	2.0	2.3	.0	4.2		
	.6	.0	1.2	3.0	12.9	8.9	.6	.4	.0	.6		
	.0	.0	.0	.2	2.7	2.7	.2	.0	.0	.0		
	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0		
	.29	.31	.56	1.12	1.75	1.20	.37	.47	.0	.50		
	4.4	4.7	8.5	17.0	26.6	18.2	5.7	7.2	.0	7.6		

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										
	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS		
0603	92	90	85	78	76	74	84.7	258			
0609	96	94	88	79	77	76	87.5	246			
1215	97	95	89	82	79	77	88.7	231			
1821	95	94	86	79	76	74	86.0	231			
TOT	97	95	87	79	76	74	86.7	976			

TABLE 16

MEANS, EXTREMES AND PERCENTILES OF RELATIVE HUMIDITY BY HOUR	PERCENT FREQUENCY OF WIND DIRECTION BY HOUR									
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
0603	.0	2.1	5.7	14.5	45.1	32.6	85	193		
0609	.0	4.1	8.2	18.5	36.9	12.3	79	195		
1215	.0	3.5	12.8	22.6	41.2	10.0	78	170		
1821	.0	2.5	6.8	16.8	48.4	25.5	63	161		
TOT	0	22	60	188	307	145	41	8719		

PERIOD: (PRIMARY) 1950-1971  
(OVER-ALL) 1910-1971

JUNE

AREA 0021 S. GULF OF OMAN  
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TABLE 17

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

AIR-SEA TMP DIF	73	77	81	85	89	93	TOT	W	FOG	WD
	76	80	84	88	92	96				FOG
14/16	.0	.0	.0	.0	.1	.3	3	.0	.0	.4
11/13	.0	.0	.1	.1	.5	.3	7	.0	.0	.9
9/10	.0	.1	.0	.3	1.0	.0	13	.0	.0	1.7
7/8	.0	.0	.3	.8	1.3	1.3	30	.0	.0	3.7
6	.0	.1	.1	.3	1.0	.9	19	.0	.0	2.4
5	.0	.0	.5	.8	1.7	1.7	38	.0	.0	4.7
4	.0	.4	.6	1.0	4.3	.9	57	.0	.0	7.2
3	.0	.1	1.5	2.0	1.5	.0	53	.0	.0	6.7
2	.1	1.0	1.1	2.4	7.4	.1	73	.1	.1	9.1
1	.3	1.4	1.8	4.4	5.3	.5	100	.1	.1	12.6
0	.1	1.5	3.4	6.4	4.2	.4	126	.3	.3	15.8
-1	.0	.9	2.5	4.4	2.4	.0	81	.1	.1	10.2
-2	.0	1.1	3.4	4.6	.9	.0	79	.1	.1	9.9
-3	.1	.5	2.0	2.5	.4	.0	44	.0	.0	5.6
-4	.3	.8	1.4	1.0	.0	.0	27	.0	.0	3.4
-5	.0	.4	1.0	.3	.4	.0	16	.0	.0	2.0
-6	.0	.0	.6	.1	.0	.0	9	.0	.0	1.1
-7/-8	.0	.5	.4	.0	.0	.0	8	.0	.0	1.0
-9/-10	.0	.3	.1	.0	.0	.0	3	.0	.0	.4
-11/-13	.0	.1	.0	.0	.0	.0	1	.0	.0	.1
TOTAL	7	29	165	243	230	69	787	6	6	779
PCT	.9	8.8	21.0	30.9	29.2	8.8	100.0	.8	.8	99.0

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

JUNE  
TABLE 18

PERIODI (PRIMARY)  
(OVER-ALL) 1963-1971

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

HGT	N			NE			48+	PCT
	1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	1.0	.4	.0	.0	.0	.0	3.3
1-2	.0	.0	.0	.0	.0	.0	.0	2.3
3-4	.0	.6	.0	.0	.0	.0	.0	1.2
5-6	.0	.0	.0	.0	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0
13-15	.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
25-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.5	.4	.0	.0	.0	.0	7.0

HGT	E			SE			48+	PCT
	1-3	4-10	11-21	22-33	34-47	48+		
<1	1.1	2.1	.0	.0	.0	.0	.0	3.1
1-2	.0	4.0	.0	.0	.0	.0	.0	2.7
3-4	.0	1.7	2.6	.0	.0	.0	.0	1.1
5-6	.0	.0	.0	.0	.0	.0	.0	1.9
7	.0	.0	.4	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
25-32	.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	1.1	7.7	3.0	.0	.0	.0	.0	10.6

PERIODS (PRIMARY)  
(OVER-ALL) 1963-1971

JUNE

AREA 0021 S. GULF OF DM. N  
23.1N 59.3E

TABLE 18

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

HGT	S					SW					PCT			
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21		22-33	34-47	48+
<1	1.0	1.0	0	0	0	0	1.0	0	1.1	0	0	0	0	1.8
1-2	0.5	7.9	2.6	0	0	0	11.0	0	1.8	0.8	0	0	0	2.6
3-4	0	3.7	8.6	0.6	0	0	12.8	0	2.3	4.7	0	0	0	7.0
5-6	0	0.6	4.7	0	0	0	5.5	0	1.1	3.6	0.6	0	0	5.2
7	0	0	1.9	0.6	0	0	2.5	0	0	0.4	0.6	0	0	1.0
8-9	0	0	1.1	0	0	0	1.1	0	0	0	0.6	0	0	0.6
10-11	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-16	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-25	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61-70	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71-86	0	0	0	0	0	0	0	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	12.4	18.9	1.1	0	0	34.0	0	7	6.4	9.5	1.7	0	18.2

HGT	W					NW					PCT			
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21		22-33	34-47	48+
<1	0	1.1	0	0	0	0	1.1	0	0.7	0	0	0	0	0.8
1-2	0	2.5	1.0	0	0	0	3.5	0	2.2	1.1	0	0	0	3.3
3-4	0	0	1.7	0	0	0	1.7	0	1.1	3.3	0	0	0	4.4
5-6	0	0	0	0	0	0	0	0	0	0.6	0	0	0	0.6
7	0	0	1.0	0	0	0	1.0	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
49-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61-70	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71-86	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87+	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOT PCT	0	3.6	3.6	0	0	0	7.2	0	4.0	5.1	0	0	0	9.1

PERIOD1 (PRIMARY)  
(COVER-ALL) 1963-1971

JUNE

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOT OBS
	3-3	4-10	11-21	22-33	34-47	48+	PCT				
<1	12.6	14.0	.5	.0	.0	.0	27.1				
1-2	.5	19.3	5.8	.0	.0	.0	25.6				
3-4	.5	10.1	18.8	.5	.0	.0	30.0				
5-6	.0	2.4	8.7	.5	.0	.0	11.6				
7	.0	.0	3.4	1.0	.0	.0	4.3				
8-9	.0	.0	1.0	.5	.0	.0	1.4				
10-11	.0	.0	.0	.0	.0	.0	.0				
12	.0	.0	.0	.0	.0	.0	.0				
13-16	.0	.0	.0	.0	.0	.0	.0				
17-19	.0	.0	.0	.0	.0	.0	.0				
20-22	.0	.0	.0	.0	.0	.0	.0				
23-25	.0	.0	.0	.0	.0	.0	.0				
26-32	.0	.0	.0	.0	.0	.0	.0				
33-40	.0	.0	.0	.0	.0	.0	.0				
41-48	.0	.0	.0	.0	.0	.0	.0				
49-60	.0	.0	.0	.0	.0	.0	.0				
61-70	.0	.0	.0	.0	.0	.0	.0				
71-86	.0	.0	.0	.0	.0	.0	.0				
87+	.0	.0	.0	.0	.0	.0	.0				
TOT PCT	13.5	45.9	38.2	2.4	.0	.0	100.0				207

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TABLE 19

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

PERIOD (SEC)	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)										TOTAL	MEAN HGT										
	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19			20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	
<6	8.7	17.8	16.4	4.8	1.4	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	308	2
6-7	.5	.6	4.7	6.4	2.2	.8	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	104	5
8-9	.0	.3	.8	1.8	1.8	1.0	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38	6
10-11	.0	.0	.5	.8	.5	1.3	.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	6
12-13	.0	.0	.2	.2	.2	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	7
>13	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
INDET	15.4	2.9	2.1	1.1	.6	.3	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	142	1
TOTAL	153	138	153	194	48	24	4	6	3	0	0	0	0	0	0	0	0	0	0	0	623	3
PCT	24.6	22.2	24.6	15.1	7.7	3.9	.6	1.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	0

PERIOD: (PRIMARY) 1951-1970 AREA 0021 S. GULF OF OMAN  
 (OVER-ALL) 1910-1970 23.1N 59.3E  
 JULY

TABLE 1  
 PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHHR	RAIN SHVR	DRZL PCPN	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL CBS
				FRZG PCPN	SNOW	OTHER PCPN					FOG	SMOKE	DUST	BLWG	
N	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.8	.0	.0	2.3	29
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.1	.0	2.6	32
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	2.6	.3	.0	7.4	95
SE	.0	.0	.1	.0	.0	.0	.0	.1	.1	.5	3.9	.6	.0	17.7	200
S	.0	.0	.4	.0	.0	.0	.0	.4	.1	.7	6.4	.9	.0	19.1	241
SW	.1	.0	.1	.0	.0	.0	.0	.2	.2	.9	6.8	1.3	.0	11.7	133
W	.0	.0	.1	.0	.0	.0	.0	.1	.0	.0	.4	.3	.0	1.6	21
NW	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.8	.3	.0	2.5	31
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	.1	.0	3.8	41
TOT OBS	1	0	6	0	0	0	0	7	.5	23	23.4	34	.0	602	876
TOT PCT	.1	.0	.7	.0	.0	.0	.0	.8	.6	2.6	23.4	3.9	.0	68.7	100.0

TABLE 2  
 PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PAIN	RAIN SHHR	ORZL PCPN	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL CBS
				FRZG PCPN	SNOW	OTHER PCPN					FOG	SMOKE	DUST	BLWG	
0000	.0	.0	.9	.0	.0	.0	.0	.9	2	1.7	24.3	4.3	.0	67.2	235
0600	.0	.0	.4	.0	.0	.0	.0	.4	1	.0	22.7	1.3	.0	73.3	224
1200	.0	.0	.8	.0	.0	.0	.0	.8	2	.4	23.2	5.5	.0	67.5	237
1800	.5	.0	.5	.0	.0	.0	.0	.9	2	.0	4.2	3.7	.0	70.1	214
TOT	1	0	6	0	0	0	0	7	5	24	21.0	14	.0	630	910
PCT	.1	.0	.7	.0	.0	.0	.0	.8	.5	2.6	23.1	3.7	.0	69.2	100.0

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PERIOD: (PRIMARY) 1951-1970  
(OVER-ALL) 1950-1970

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)																
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPO	00	03	06	09	12	15	18	21
N	1.1	1.7	.3	.0	.0	.0	31	3.2	5.9	2.4	.0	3.7	9.0	5.7	4.2	.0	4.3
NE	.7	3.0	.1	.1	.0	.0	38	3.9	7.0	3.7	6.7	3.9	9.0	6.2	1.0	.0	9.8
E	1.4	7.7	2.2	.1	.0	.0	111	11.4	8.0	9.8	26.7	11.5	10.0	15.6	15.6	5.7	27.2
SE	2.1	13.6	6.7	.4	.0	.0	222	22.8	9.3	24.1	23.3	22.5	18.0	22.3	25.0	22.7	21.7
S	1.1	10.4	13.0	2.9	.1	.0	268	27.5	13.1	23.6	16.7	28.7	34.0	23.9	35.4	35.0	16.3
SW	.6	6.5	10.4	2.9	.2	.0	200	20.5	14.4	26.8	23.3	18.9	14.0	15.6	16.7	22.5	12.0
W	.1	1.3	.8	.1	.0	.0	22	2.3	10.8	1.6	3.2	2.6	.0	2.1	2.1	3.3	.0
NW	.9	2.0	.5	*	.0	.0	34	3.5	6.6	1.9	.0	5.0	2.0	.0	.0	4.6	.0
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALC	4.9	451	332	63	2	0	976	4.9	10.5	7.1	.0	3.2	4.0	4.3	.0	5.4	8.7
TOT OBS	123	451	332	63	2	0	976	100.0	100.0	238	15	217	25	231	24	203	23
TOT PCT	13.1	46.2	34.0	6.5	.2	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)															
	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPO	00	03	06	09	12	15	18	21
N	2.0	1.2	.0	.0	.0	31	3.2	5.9	2.3	2.3	4.2	5.6	5.6	5.6	4.4	.4
NE	1.8	2.0	.1	.0	.0	38	3.9	7.0	3.9	3.9	4.4	5.7	5.7	5.7	4.4	1.5
E	4.8	6.1	.5	.0	.0	111	11.4	8.0	9.9	9.9	11.4	15.9	15.9	15.9	8.1	8.1
SE	7.6	13.0	2.2	.0	.0	222	22.8	9.3	24.0	24.0	22.0	22.5	22.5	22.5	22.6	22.6
S	4.5	14.8	7.9	.3	.0	268	27.5	13.1	23.2	23.2	29.2	35.0	35.0	33.1	33.1	33.1
SW	2.8	10.3	6.8	.5	.1	200	20.5	14.4	26.4	26.4	18.4	15.7	15.7	21.5	21.5	21.5
W	.6	1.2	.4	.0	.0	22	2.3	10.8	1.7	1.7	2.4	2.1	2.1	3.0	3.0	3.0
NW	2.4	1.0	.2	.0	.0	34	3.5	6.6	1.8	1.8	4.6	3.6	3.6	4.1	4.1	4.1
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALC	4.9	483	177	8	1	976	4.9	10.5	6.7	6.7	3.3	3.9	3.9	5.3	5.3	5.3
TOT OBS	307	483	177	8	1	976	100.0	100.0	253	253	242	255	255	226	226	226
TOT PCT	31.5	49.5	18.1	.8	.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0



JULY

PERIODS (PRIMARY) 1951-1970  
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TABLE 4

HOUR	PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)				PCT OBS
	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21 22-33 34-47	
0000	6.7	4.3	41.1	38.9	8.7
0600	3.3	11.6	46.7	32.2	6.2
1215	3.9	10.6	51.4	29.8	4.3
1821	5.8	6.2	45.6	35.8	6.6
TOT	4.8	8.0	45.1	33.2	6.5
PCT	4.9	8.2	46.2	34.0	6.5

TABLE 5

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

WIND DIR	PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION							TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-1	9-10	11-15	16-20		
N	1.7	.2	.9	.3	.4	.3	.3	2.8	
NE	2.1	.5	.9	.3	.3	.3	.3	2.5	
E	6.5	1.3	2.0	.8	.8	.8	.8	2.5	
SE	15.1	2.9	4.4	2.2	3.7	2.6	2.6	2.4	
S	16.8	2.5	5.2	3.7	3.7	3.7	3.7	2.6	
SW	9.7	2.4	3.5	3.7	3.7	3.7	3.7	3.7	
W	.9	.1	.3	.5	.5	.5	.5	3.7	
NW	2.3	.3	.7	.3	.3	.3	.3	2.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.7	.1	.5	.4	.4	.4	.4	1.5	
TOT OBS	430	77	135	89	731	731	731	1.5	
TOT PCT	58.8	10.5	18.5	12.2	100.0	100.0	100.0	2.6	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >478)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >478) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION										TOTAL OBS	
	000	149	150	299	300	600	1000	2000	5000	6500		8000+
N	.1	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.3
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	5	0	11	23	26	34	13	731	731	731	731	731
TOT PCT	.7	.0	1.5	3.1	3.6	3.3	1.8	1.0	1.0	1.6	69.0	100.0

PERT 01 (PRIMARY) 1951-1970  
(OVER-ALL) 1910-1970

JULY

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 7

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

CEILING (FEET)	VSBY (NM)		>1/2		>1/4		>50YD		CR >0
	= OR >10	= OR >1	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD		
= OR >6500	3	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
= OR >5000	1.3	3.0	2.4	3.0	3.0	3.0	3.0	3.0	3.0
= OR >3500	1.8	4.7	3.7	4.7	4.7	4.7	4.7	4.7	4.7
= OR >2000	1.8	7.9	6.6	7.9	7.9	7.9	7.9	7.9	7.9
= OR >1000	2.9	11.6	9.5	11.6	11.6	11.6	11.6	11.6	11.6
= OR >600	3.6	14.5	12.0	14.5	14.5	14.5	14.5	14.5	14.5
= OR >300	4.2	16.1	13.3	16.1	16.1	16.1	16.1	16.1	16.1
= OR >150	4.2	16.1	13.2	16.1	16.1	16.1	16.1	16.1	16.1
= CR > 0	4.5	16.4	13.7	16.4	16.4	16.4	16.4	16.4	16.4
TOTAL	34	125	104	125	127	127	127	127	127

TOTAL NUMBER OF OBS: 760

PCT FREQ NH <3/8: 83.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	0-8	TOTAL
57.1	7.7	1.2	6.6	5.0	2.7	3.8	3.8	7.7	5	808

PERIOD: (PRIMARY) 1951-1970  
(OVER-ALL) 1910-1970

JULY

AREA 0021, S. GULF OF OMAN  
23 IN 59.3E

TABLE 3  
PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
TOT %	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2
TOT %	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.1	.1	.3	.4	.4	.2	.1	.0	.0	.0	.0	1.4
TOT %	.1	.1	.3	.4	.4	.2	.1	.0	.0	.0	.0	1.4
PCP	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.2
NO PCP	.2	.3	1.2	1.9	2.4	4.7	.1	.4	.0	.1	.1	11.2
TOT %	.2	.3	1.2	1.9	2.6	4.7	.2	.4	.0	.1	.1	11.3
PCP	.0	.0	.0	.0	.3	.1	.0	.0	.0	.0	.0	.5
NO PCP	1.8	2.1	5.2	10.3	15.6	10.8	1.3	1.8	.0	2.6	.5	51.3
TOT %	1.8	2.1	5.2	10.3	15.9	10.9	1.3	1.8	.0	2.6	.5	51.9
PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1
NO PCP	1.2	1.3	4.3	10.4	8.6	5.6	.8	1.4	.0	1.8	.7	34.7
TOT %	1.2	1.3	4.3	10.5	8.6	5.6	.8	1.4	.0	1.8	.7	34.9
TOT OBS	3.2	5.7	10.9	23.0	27.6	20.9	2.4	3.6	.0	4.6	100.0	872

JULY

PERIOD (PRIMARY) 1951-1970  
(COVER-ALL) 1910-1970

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 9

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

VSRY (M)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.1	.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	.1	.1	.0	.0	.0	.0	.2
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.1	.2	.0	.0	.0	.0	.2
1-2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.3	.2	.3	.1	.1	.1	.0	.0	.0	.1
	11-21	.0	.0	.1	.1	.1	.1	.1	.0	.0	.0	.4
	TOT %	.1	.3	.3	.4	.2	.2	.2	.1	.1	.0	.5
2-5	0-3	.0	.0	.1	.2	.1	.1	.0	.0	.0	.0	.6
	4-10	.2	.3	1.1	1.2	.7	1.7	.2	.2	.0	.0	2.7
	11-21	.0	.0	.0	.6	1.8	2.7	.0	.1	.0	.0	5.2
	TOT %	.2	.3	1.2	2.1	3.0	4.6	.2	.3	.0	.0	12.2
5-10	0-3	.6	.3	.9	1.3	.6	.1	.1	.4	.0	.0	7.2
	4-10	.9	1.7	3.2	6.1	5.5	2.9	.7	1.1	.0	.0	22.2
	11-21	.2	.1	1.2	2.7	7.8	5.9	.5	.2	.0	.0	18.5
	TOT %	1.7	2.3	5.3	10.4	15.6	10.6	1.3	1.7	.0	.0	51.4
10+	0-3	.5	.4	.3	.7	.4	.3	.0	.5	.0	.0	4.7
	4-10	.6	.7	3.0	6.4	3.3	1.8	.5	.7	.0	.0	17.4
	11-21	.2	.4	1.0	3.3	3.6	1.9	.2	.3	.0	.0	10.5
	TOT %	1.2	1.2	4.4	10.3	6.4	4.9	.8	1.4	.0	.0	34.4
TOT OBS		5.1	3.9	11.2	23.1	27.7	20.5	2.3	3.5	.0	4.7	100.0
TOT PCT												937

JULY

PERIOD: (PRIMARY) 1951-1970  
(COVER-ALL) 1910-1970

AREA 0021, S. GULF OF OMAN  
23.1N 59.3E

TABLE 10

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

HOUR (GMT)	000	150	300	500	1000	2000	3500	5000	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL
00003	0.0	0.0	2.1	1.0	3.6	4.6	3.1	1.1	.0	1.5	17.5	82.5
06009	.5	.0	1.9	3.8	3.8	2.4	1.4	1.4	.5	1.9	17.9	82.1
12015	.5	.0	1.5	3.4	2.4	1.5	.5	.5	1.0	2.4	13.6	86.4
18021	1.1	.0	.5	3.3	4.9	3.8	1.5	.0	.0	.5	13.8	84.2
TOT	5	0	12	23	29	24	13	7	3	13	129	666
PCT	.6	.0	1.5	2.9	3.6	3.0	1.6	.9	.4	1.6	16.2	83.8

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	< 1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.0	.0	.0	9.3	49.5	41.2	182
06009	.0	.0	.0	13.5	47.5	39.0	200
12015	.0	.5	1.1	11.5	51.5	25.5	200
18021	.0	.6	.6	9.6	52.8	36.5	178
TOT	0	2	3	84	382	249	760
PCT	.0	.3	.4	11.1	50.3	38.0	100.0

TABLE 12

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

HOUR (GMT)	< 150 < 50YD	< 600 < 1000 < 5 AND 5+	1000+ AND 5+	NH < 5/8	TOTAL OBS
00003	.0	2.2	12.1	13.2	74.7
06009	.5	2.5	19.0	9.0	72.0
12015	.5	2.5	17.5	7.0	75.5
18021	1.1	1.7	14.6	9.0	76.4
TOT	4	17	121	77	507
PCT	.5	2.2	15.9	9.3	74.6

JULY

PERIOD: (PRIMARY) 1951-1970  
(OVER-ALL) 1910-1970

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY 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	.1	.6	.7	.0	.0	6	1.2
90/94	.0	.0	.1	1.0	2.6	7.0	5.5	.4	115	16.7
85/89	.0	.0	.0	.0	.7	9.2	19.2	5.4	237	34.4
80/84	.0	.0	.0	.0	.1	2.9	8.5	.0	171	24.9
75/79	.0	.0	.0	.0	.0	.9	8.9	10.0	136	19.8
70/74	.0	.0	.0	.0	.0	.0	.0	3.1	21	3.1
TOTAL	.0	.0	.2	.8	2.8	13.8	32.0	19.1	688	100.0
PCT	.0	.0	.3	1.2	4.1	20.2	46.5	27.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

TEMP F	N	NE	E	SE	S	SW	W	NW	VAR	CALM
95/99	.3	.0	.2	.2	.0	.0	.0	.3	.0	.1
90/94	1.3	1.1	2.1	4.0	3.0	2.0	.7	1.4	.0	1.2
85/89	1.2	1.9	6.6	10.8	5.1	3.7	.8	1.2	.0	3.1
80/84	.6	.6	2.4	5.7	8.1	5.9	.7	.5	.0	.3
75/79	.0	.0	.3	1.3	9.6	8.0	.4	.0	.0	.1
70/74	.0	.0	.0	.1	1.5	1.5	.0	.0	.0	.0
TOTAL	2.3	2.4	8.0	15.2	18.8	14.5	1.7	2.3	0	3.3
PCT	3.5	3.6	11.7	22.1	27.4	21.1	2.5	3.4	.0	4.8

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	92	91	90	83	74	72	72	82.3	200
0600Z	95	94	92	85	76	74	73	84.5	249
1200Z	97	95	94	86	76	75	74	83.8	259
1800Z	97	93	91	84	74	71	71	83.1	233
TOT	97	94	92	85	75	73	71	84.0	1001

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.0	.5	2.2	2.2	10.2	41.4	45.7	88	186	
0600Z	.0	2.2	2.8	32.6	47.8	14.6	82	178		
1200Z	.0	2.2	7.7	25.4	48.1	13.7	81	183		
1800Z	.0	.6	3.6	9.0	35.2	35.5	86	166		
TOT	0	1.0	2.9	14.4	33.5	19.5	84	713		

PERIOD (PRIMARY) 1951-1973  
(OVER-ALL) 1910-1970

JULY

AREA 0021 5, GULF OF OMAN  
23.1N 59.3E

TABLE 17

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

AIR-SEA TMP DIF	69	73	77	81	85	89	93	TOT	W	WD
	72	76	80	84	88	92	96	FOG	FOG	FOG
14/16	.0	.0	.0	.0	.0	.1	.1	2	.0	.3
11/13	.0	.0	.1	.1	.3	.5	.1	11	.0	1.4
9/10	.0	.1	.3	.5	.6	.4	.3	13	.0	1.7
7/8	.0	.1	.3	.5	.8	.6	.1	21	.3	2.3
6	.0	.0	.4	.6	.8	.3	.5	20	.0	2.5
5	.0	.1	.5	1.1	.9	.6	.3	28	.1	3.4
4	.0	.4	1.0	1.0	.5	1.1	.8	40	.3	4.7
3	.0	1.0	1.1	.9	.9	2.0	.8	53	.1	6.6
2	.0	1.3	1.0	1.0	1.3	3.6	.6	69	.1	8.7
1	.1	.8	2.2	.9	1.8	3.1	.1	70	.1	8.8
0	.1	.5	1.4	1.3	3.6	3.2	.0	79	.8	9.3
-1	.0	1.4	1.5	1.7	4.7	2.7	.0	94	.1	11.8
-2	.1	1.1	1.8	2.5	2.8	.0	.0	73	.4	8.9
-3	.1	.8	2.0	2.4	3.6	.8	.0	76	.3	9.4
-4	.0	.6	1.3	2.0	1.5	.0	.0	43	.1	5.4
-5	.0	.3	.4	1.3	1.5	.1	.0	28	.1	3.4
-6	.0	.1	.8	.8	.8	.0	.0	19	.0	2.4
-7/-8	.0	.4	.9	2.0	.1	.0	.0	27	.0	3.4
-9/-10	.0	.3	.5	.3	.3	.0	.0	10	.0	1.3
-11/-13	.1	.1	.5	.0	.0	.0	.0	6	.1	.6
-14/-16	.1	.3	.0	.0	.0	.0	.0	3	.0	.4
TOTAL	6	75	140	163	211	157	29	785	23	760
PCT	.8	9.6	17.8	20.3	26.9	20.0	3.7	100.0	2.9	96.8

PERIOD: (PRIMARY) (COVER-ALL) 1969-1970  
 JULY  
 AREA 0021 S. GULF OF OMAN  
 23.1N 59.3E

TABLE 1B  
 PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N				NE				PCT				
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10		11-21	22-33	34-47	48+
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
25-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1

HGT	E				SE				PCT				
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10		11-21	22-33	34-47	48+
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.5	2.1	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2
3-4	.0	1.6	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.6
5-6	.0	1.2	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	5.7	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	21.6



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

JULY  
TABLE 18

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

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	.5	1.6	.4	.0	.0	.0	2.5	.0	2.0	.0	.0	.0	.0	2.0
1-2	.5	7.4	1.9	.0	.0	.0	9.7	.0	1.6	.4	.0	.0	.0	2.0
3-4	.0	3.0	8.1	.0	.0	.0	11.1	.0	1.5	6.0	.0	.0	.0	8.4
5-6	.0	.4	3.4	1.4	.0	.0	7.1	.0	.0	3.4	.0	.0	.0	3.4
7	.0	.0	2.2	.9	.0	.0	5.2	.0	.0	2.0	.0	.0	.0	2.5
8-9	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.5
10-11	.0	.0	.0	.5	.0	.0	.5	.0	.1	.0	.0	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.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	12.4	17.9	3.3	.0	.0	34.5	.0	5.3	11.7	2.3	.0	.0	19.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.5	1.4	.0	.0	.0	.0	1.9
1-2	.0	2.2	.0	.0	.0	.0	2.2	.5	1.9	.5	.0	.0	.0	2.8
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.4	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.6	.8	.0	.0	.0	3.4	.0	3.3	.9	.0	.0	.0	5.1

PERIOD (PRIMARY) 1969-1970  
(EVER-ALL) 1967-1970

AUGUST

AREA 0021 S. GULF OF OMAN  
23.1N 39.3E

TABLE 7

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

CEILING (FEET)	>10		>5		>2		VSBY (NM)		>1/2		>1/4		>5000		>0	
	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR
OR >6500	.3	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
OR >5000	.7	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
OR >3500	2.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
OR >2000	2.9	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
OR >1000	3.4	10.1	10.1	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4
OR >600	3.7	11.5	12.4	12.4	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
OR >300	3.8	12.4	13.3	13.3	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
OR >150	3.8	12.4	13.3	13.3	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
OR > 0	3.8	12.8	13.7	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
TOTAL	29	98	105	107	107	107	107	107	107	107	107	107	107	107	107	107

TOTAL NUMBER OF OBS 766

PCT FREQ NH <5/8 86.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL
	62.4	9.3	6.1	4.4	3.3	2.2	3.3	3.2	5.4	.2	81.4

PERIOD: (PRIMARY) 1949-1970  
(OVER-ALL) 1907-1970

AUGUST

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN		ORL		PRECIPITATION TYPE			HAIL		PCT FREQ		TOTAL		OTHER WEATHER PHENOMENA				TOTAL								
	SHWR	SHR	SHWR	SHR	FRZG	SNOW	OTHER	FRN	PCPN	PCPN AT	OB TIME	PCPN	PCPN	THOR	LTNG	PCPN	FOG	SMOKE	HAZE	BLWG	DUST	NO	SIG	WEA	OBS	
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT 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

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN		ORL		PRECIPITATION TYPE			HAIL		PCT FREQ		TOTAL		OTHER WEATHER PHENOMENA				TOTAL								
	SHWR	SHR	SHWR	SHR	FRZG	SNOW	OTHER	FRN	PCPN	PCPN AT	OB TIME	PCPN	PCPN	THOR	LTNG	PCPN	FOG	SMOKE	HAZE	BLWG	DUST	NO	SIG	WEA	OBS	
0203	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
0609	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1215	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1621	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
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

AUGUST

PERIOD: (PRIMARY) 1949-1970  
(COVER-ALL) 1907-1970

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										WIND DIRECTION BY SPEED AND BY HOUR						
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPO	00	03	06	09	12	15	18	21
N	.7	1.4	.2	.0	.0	.0	23	2.3	5.5	3.1	8.3	3.0	.0	2.5	.0	.8	.0
NE	.9	3.9	.3	.0	.0	.0	49	5.0	6.7	4.7	.0	4.5	5.0	8.5	10.0	1.0	10.7
E	1.7	8.1	2.2	.1	.0	.0	120	12.1	7.6	9.2	14.6	11.9	12.5	19.4	13.3	6.1	13.4
SE	2.2	14.6	6.0	.1	.0	.0	229	22.9	8.8	24.9	18.8	15.3	14.4	24.4	30.8	25.4	17.4
S	.9	10.3	14.1	2.9	.0	.0	280	28.1	13.2	27.8	27.1	30.8	24.4	25.0	20.8	31.4	23.2
SW	.3	5.5	10.5	2.3	.0	.0	186	18.7	14.4	21.5	29.2	19.4	28.8	10.1	21.7	20.2	25.0
W	.4	.9	.3	.1	.0	.0	16	1.6	8.1	.0	2.1	1.9	2.5	1.6	.0	2.5	5.4
NW	.5	2.2	.2	.0	.0	.0	25	2.9	5.6	1.4	.0	2.9	5.0	3.5	3.3	3.5	5.4
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.5	469	336	55	0	0	55	6.5	10.0	7.4	24	219	40	7.5	5.1	9.1	2.6
TOT OBS	14.0	45.9	33.6	5.5	.0	.0	1000	100.0	10.0	215	24	100.0	100.0	100.0	100.0	100.0	100.0
TOT PCT	14.0	45.9	33.6	5.5	.0	.0	1000	100.0	10.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										WIND DIRECTION BY SPEED AND BY HOUR					
	0-5	7-10	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPO	00	03	06	09	12	15	18	21
NE	1.6	.7	.0	.0	.0	23	2.3	5.5	3.7	2.5	2.3	2.3	2.3	2.3	2.3	2.3
E	2.5	2.5	.0	.0	.0	49	5.0	6.7	4.2	4.5	5.6	5.6	5.6	5.6	5.6	5.6
SE	6.0	5.9	.2	.0	.0	120	12.1	7.6	9.7	12.0	18.7	18.7	18.7	18.7	18.7	18.7
S	7.6	14.3	.9	.1	.0	229	22.9	8.8	24.3	18.5	25.1	23.9	23.9	23.9	23.9	23.9
SW	4.3	15.5	7.6	.7	.0	280	28.1	13.2	27.7	29.8	24.5	24.5	24.5	24.5	24.5	24.5
W	2.1	9.6	6.8	.3	.0	186	18.7	14.4	22.3	20.8	11.4	11.4	11.4	11.4	11.4	11.4
NW	.9	.5	.2	.0	.0	16	1.6	8.1	.2	2.0	2.0	2.0	2.0	2.0	2.0	2.0
VAR	2.5	.5	.0	.0	.0	29	2.9	5.6	1.3	3.2	3.5	3.5	3.5	3.5	3.5	3.5
CALM	6.5	.0	.0	.0	.0	65	6.5	10.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	34.0	494	156	10	0	1000	100.0	10.0	239	259	266	266	266	266	266	266
TOT PCT	34.0	49.4	15.6	1.0	.0	1000	100.0	10.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1949-1970  
(OVER-ALL) 1907-1970

AUGUST

AREA 0021 S. GULF OF OMAN  
29.1N 59.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)				TOTAL OBS
		1-3	4-10	11-21	22-33	
0000	5.9	4.6	36.4	6.3	0	239
0600	6.0	4.9	30.1	5.4	0	259
1200	4.1	11.3	30.5	5.3	0	266
1800	8.1	3.4	38.1	5.1	0	236
TOT	6.1	7.5	33.6	5.5	0	1000
PCT	6.1	7.5	33.6	5.5	0	100.0

TABLE 5  
PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)						TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-6	7-8	9-5		
N	1.5	.1	.2	.0	.0	.0	15	1.5
NE	2.4	.8	.8	.1	.2	2.3	32	2.3
E	7.0	.8	2.4	.7	.0	2.4	80	2.4
SE	15.7	3.7	3.2	1.6	.0	2.0	177	2.0
S	20.2	2.5	2.0	3.4	.0	2.1	216	2.1
SW	10.2	2.1	2.6	2.9	.0	2.8	132	2.8
W	1.1	.0	.0	.3	.0	2.0	10	2.0
NW	2.0	.8	.1	.0	.0	1.6	21	1.6
VAR	.0	.0	.0	.0	.0	.0	0	.0
CALC	5.9	.8	.3	.3	.0	1.1	53	1.1
TOT OBS	487	86	94	70	70	2.1	737	2.1
TOT PCT	66.1	11.7	12.8	9.5	10.0		100.0	

TABLE 6

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

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8										TOTAL OBS	
	000	149	299	599	899	1000	2000	3499	5000	6499		7999
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32
SE	.1	.1	.3	.3	.2	.2	.5	.4	.4	.3	.1	80
S	.1	.1	.0	.4	.7	1.0	1.2	.5	.4	.1	.1	177
SW	.0	.0	.0	.3	1.1	1.0	.1	.5	.3	.0	.4	216
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	132
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21
CALC	.1	.1	.3	.3	.2	.2	.5	.4	.4	.3	.1	53
TOT OBS	3	3	7	17	21	19	21	19	8	3	6	737
TOT PCT	.4	.4	.9	2.3	2.8	2.6	2.6	2.6	1.1	.4	.8	100.0

PERIOD: (PRIMARY) 1949-1970  
(COVER-ALL) 1907-1970

AUGUST

AREA: 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 7

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

CEILING (FEET)	VSBY (NM)		OR		OR		OR		TOTAL
	>10	>5	>2	>1	>1/2	>1/4	>5000		
OR >6500	.3	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
OR >5000	.7	2.2	3.2	2.2	2.2	2.2	2.2	2.2	2.2
OR >3500	2.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
OR >2000	2.9	7.2	7.6	7.6	7.6	7.6	7.6	7.6	7.6
OR >1000	3.4	10.1	10.4	10.4	10.4	10.4	10.4	10.4	10.4
OR >600	3.7	11.5	12.4	12.5	12.5	12.5	12.5	12.5	12.5
OR >300	3.6	12.4	13.3	13.6	13.6	13.6	13.6	13.6	13.6
OR >150	3.8	12.4	13.3	13.6	13.6	13.6	13.6	13.6	13.6
OR > 0	3.8	12.8	13.7	14.0	14.0	14.0	14.0	14.0	14.0
TOTAL	29	98	105	107	107	107	107	107	107

TOTAL NUMBER OF OBS: 766

PCT FREQ NH <5/8: 86.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL
62.4	9.3	6.1	4.4	3.3	2.2	3.3	3.2	3.2	5.4	814
										814

PERIOD: (PRIMARY) 1949-1970  
(OVER-ALL) 1907-1970

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AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 8

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

VSBY (NM)	PCP NO PCP TOT %	N	NE	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	.0 .0 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	.0 .0 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	.0 .0 .0	.0	.1	.3	.5	.2	.0	.0	.0	.0	.0	1.3
2<5	.0 .0 .0	.0	.2	1.2	2.8	1.8	.1	.0	.0	.0	.0	7.5
5<10	.0 .0 .0	.0	.0	.0	.1	.7	.0	.0	.0	.0	.0	1.1
10+	1.2 1.2	1.2	1.7	5.5	13.0	12.7	5.9	.9	1.2	.0	.0	5.2
TOT OBS		2.1	6.8	11.6	23.0	29.3	17.9	1.6	2.6	.0	7.0	87.2
TOT PCT												100.0

AUGUST

PERIOD: (PRIMARY) 1949-1970  
(OVER-ALL) 1907-1970

TABLE 9

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

VSRY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1
	4-10	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
	11-21	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.3
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
	4-10	.0	.1	.2	.1	.2	.0	.0	.0	.0	.0	.6
	11-21	.0	.0	.0	.2	.3	.3	.0	.0	.0	.0	.8
	TOT %	.0	.1	.2	.3	.5	.3	.1	.0	.0	.0	1.5
2<5	0-3	.1	.2	.1	.1	.0	.1	.0	.1	.0	.3	.8
	4-10	.0	.1	1.0	.9	.8	.4	.0	.0	.0	.0	3.2
	11-21	.0	.0	.1	.3	1.6	1.2	.1	.0	.0	.0	3.2
	TOT %	.1	.2	1.3	1.3	2.9	2.1	.1	.1	.0	.3	8.2
5<10	0-3	.2	.3	.7	.7	.5	.1	.1	.1	.0	3.4	6.2
	4-10	.6	2.3	3.0	5.0	4.1	2.9	.3	1.3	.0	.0	19.4
	11-21	.0	.0	1.2	2.9	6.6	5.4	.2	.1	.0	.0	16.4
	TOT %	.8	2.6	4.9	8.7	12.7	9.9	.6	1.5	.0	3.4	45.1
10+	0-3	.4	.5	.7	1.4	.3	.0	.1	.3	.0	2.8	6.5
	4-10	.6	1.0	3.8	8.6	5.4	2.0	.6	1.0	.0	.0	23.0
	11-21	.2	.3	1.0	2.7	5.8	3.6	.1	.1	.0	.0	12.8
	TOT %	1.2	1.8	5.5	12.7	12.3	6.2	.8	1.4	.0	2.8	44.8
TOT OBS		2.1	4.7	11.9	23.2	28.5	18.6	1.6	3.0	.0	6.5	100.0
TOT PCT												973



TABLE 10  
 PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >4/8) AND OCCURRENCE OF NH <5/8 <5/8 BY HOUR

HOUR (GMT)	000	100	300	600	1000	2000	3500	5000	6500	7000+	TOTAL NH <5/8 ANY HGT	TOTAL NH <5/8 OBS
00003	.0	.0	2.1	1.0	2.6	1.6	5.8	1.6	.0	.5	15.2	84.8
06009	.0	.0	.9	4.2	4.7	2.3	1.4	.5	.5	.9	15.4	84.6
12015	.9	.0	.5	1.9	1.4	2.3	1.4	1.9	.9	.9	12.1	87.9
18021	.5	.0	.5	1.1	2.2	3.8	2.2	.0	.0	.5	10.8	89.2
TOT	3	0	8	17	22	20	21	8	5	6	108	697
PCT	.4	.0	1.0	2.1	2.7	2.5	2.6	1.0	.4	.7	13.4	86.6

TABLE 11  
 PERCENT FREQUENCY VSRY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.0	.0	1.7	6.8	42.4	49.2	177
06009	1.0	.0	.0	6.4	50.0	42.6	204
12015	.0	.0	1.5	6.9	68.8	42.9	203
18021	.0	.0	.5	7.1	39.0	53.3	182
TOT	2	0	7	52	347	358	766
PCT	.3	.0	.9	6.8	45.3	46.7	100.0

TABLE 12  
 CUMULATIVE PCT FREQ OF RANGES OF VSRY (NH) AND/OR CEILING HGT (FEET) NH >4/8) BY HOUR

HOUR (GMT)	<150 FT	<500 FT	<600 FT	<1000 FT	1000+ FT	TOTAL OBS
00003	.0	2.3	10.7	11.9	77.4	177
06009	.0	2.0	11.8	10.8	77.5	204
12015	1.0	1.5	10.8	9.4	79.8	203
18021	.5	1.1	9.3	8.2	82.4	182
TOT	3	13	82	77	607	766
PCT	.4	1.7	10.7	10.1	79.2	100.0

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PERIOD: (PRIMARY) 1969-1970  
(OVER-ALL) 1907-1970

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TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP	0-25	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.3	.1	.4	.0	.0	6	.8
90/94	.0	.0	.0	.0	3.1	5.2	3.8	.7	91	12.9
85/89	.0	.0	.0	.1	.3	8.2	14.4	3.2	186	26.3
80/84	.0	.0	.0	.0	.0	5.4	13.6	9.3	201	28.4
75/79	.0	.0	.0	.0	.0	1.0	10.7	10.0	154	21.3
70/74	.0	.0	.0	.0	.0	.1	1.6	8.2	70	9.9
TOTAL	.0	.0	.0	.3	.26	144	312	223	708	100.0
PCT	.0	.0	.0	.4	3.7	20.3	44.1	31.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.1	.9	.2	.2	.1	.0	.0	.1	.0	.1
	.2	2.8	5.3	3.4	1.9	.6	.2	1.6	.0	1.3
	.7	2.2	1.5	8.9	3.8	1.7	.4	.6	.0	2.7
	.2	1.5	3.1	8.8	8.8	3.3	.4	.6	.0	1.7
	.0	.1	.2	1.8	11.1	8.0	.0	.0	.0	.6
	.0	.1	.2	.1	4.5	4.6	.2	.1	.0	.0
	.9	34	83	162	214	129	8	21	0	45
	1.3	4.8	11.8	23.0	30.3	18.2	1.2	3.0	.0	6.4

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	93	92	89	82	72	71	71	81.0	251
0600	94	94	92	84	75	72	72	83.8	262
1200	99	97	94	84	75	74	74	85.1	247
1800	92	91	90	82	73	72	70	81.9	241
TOT	95	94	92	84	73	72	70	83.0	1021

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-59	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	.0	1.6	9.0	44.1	43.2	88	188
0600	.0	.0	5.8	27.3	48.6	20.2	83	183
1200	.0	1.0	8.7	31.3	43.6	15.4	81	195
1800	.0	.6	1.7	14.2	39.8	43.8	87	176
TOT	0	3	30	153	327	229	84	742

PERIOD: (PRIMARY) 1969-1970  
(OVER-ALL) 1901-1970

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TABLE 17

80T FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP OIF	59	73	77	81	85	89	93	TOT	W FOG	HD FOG
14/16	.0	.0	.0	.0	.1	.1	.3	4	.0	.5
11/13	.0	.1	.0	.3	.1	.3	.0	6	.0	.8
9/10	.0	.0	.1	.4	.4	.5	.3	17	.0	1.9
7/8	.0	.1	.8	.8	.5	.6	.8	28	.0	3.6
6	.0	.1	.5	.0	.6	1.0	.3	20	.1	2.4
5	.0	.3	.6	.9	1.2	1.4	.5	42	.3	5.0
4	.0	.8	1.3	.9	.6	.2	.5	36	.0	4.6
3	.0	.6	.5	.9	1.4	1.2	.6	41	.0	5.3
2	.0	1.9	1.8	2.2	1.5	2.3	.1	77	.1	9.8
1	.3	2.1	.9	.8	1.8	1.9	.1	61	.0	7.9
0	.4	1.5	1.5	1.7	4.8	2.3	.0	95	.4	11.9
-1	.4	1.0	1.8	1.7	2.1	2.1	.0	69	.8	8.5
-2	.6	1.3	1.5	3.5	2.7	.5	.0	79	.8	9.4
-3	.5	1.2	.8	1.7	2.2	.5	.0	53	.4	6.4
-4	.1	1.5	1.4	2.8	1.5	.0	.0	58	.3	7.2
-5	.0	.5	1.0	1.3	.8	.6	.0	21	.1	2.6
-6	.1	.8	.6	1.7	.4	.0	.0	28	.0	3.6
-7/-8	.1	.4	.3	.3	.0	.0	.0	8	.0	1.0
-9/-10	.1	.4	.4	.0	.0	.0	.0	3	.0	.4
-11/-13	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
-14/-16	.1	1.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	20	116	131	174	182	120	27	776	23	750
PCT	2.6	14.9	16.9	22.4	23.5	15.5	3.5	100.0	3.0	98.6

PERIOD (PRIMARY)  
(DVER-ALL) 1763-1970

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TABLE 18

AREA 0021 S. GULF OF OMAN  
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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N				NE				PCT					
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10		11-21	22-33	34-47	48+	
<1	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.7	.0	.0	.0	.0	.0	1.7	.4	3.5	.1	.0	.0	4.0

HGT	E				SE				PCT					
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10		11-21	22-33	34-47	48+	
<1	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.4	4.6	1.1	.0	.0	.0	.0	6.1	.0	1.7	.0	.0	.0	2.7
3-4	.0	.8	1.1	.0	.0	.0	.0	1.8	.0	4.7	.0	.0	.0	9.2
5-6	.0	.3	1.1	.0	.0	.0	.0	1.4	.0	.7	.0	.0	.0	5.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	1.8
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.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	7.4	3.3	.0	.0	.0	.0	11.1	.9	15.1	4.6	.0	.0	20.5

PERIOD: (PRIMARY)  
(COVER-ALL) 1563-1970

AUGUST  
TABLE 18

AREA CO21 S. GULF OF OMAN  
23.IN 59.3E

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

HGT	S										TOT PCT			
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21		22-33	34-47	48+
<1	.9	2.8	1.4	.0	.0	.0	4.1	.0	.0	.0	.0	.0	.0	.7
1-2	.4	5.9	3.6	.0	.0	.0	8.8	.0	3.7	.9	.0	.0	.0	4.6
3-4	.0	2.4	6.3	.0	.0	.0	8.9	.0	.0	4.3	.4	.0	.0	4.8
5-6	.0	1.1	6.1	2.1	.0	.0	9.2	.0	.0	2.5	1.8	.0	.0	5.4
7	.0	.4	2.4	.8	.0	.0	3.6	.0	.0	2.0	.1	.0	.0	2.1
8-9	.0	.3	1.1	.3	.0	.0	1.2	.0	.0	.7	1.0	.0	.0	1.5
10-11	.0	.0	.3	.9	.0	.0	.0	.0	.4	.1	.0	.0	.0	.1
12	.0	.0	.0	.3	.0	.0	.5	.0	.0	.0	.1	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.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
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	12.6	20.4	4.3	.0	.0	38.9	.0	5.0	11.4	3.5	.0	.0	19.9

HGT	W										TOT PCT			
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21		22-33	34-47	48+
<1	.4	.3	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.0	.0	.0	.0	.0	1.0	.0	.0	.4	.0	.0	.0	1.0
3-4	.0	.0	.3	.0	.0	.0	.3	.0	.4	.0	.0	.0	.0	.4
5-6	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.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	1.3	.7	.0	.0	.0	2.4	.0	1.0	.4	.0	.0	.0	1.4

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

AUGUST

AREA 0021, S. GULF OF OMAN  
23.1N 59.3E

TABLE 18 (CONT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.1	7.5	.4	.0	.0	.0	19.0	
1-2	.8	25.3	7.1	.0	.0	.0	33.2	
3-4	.0	7.5	14.9	.4	.0	.0	19.8	
5-6	.0	2.0	11.1	3.6	.0	.0	16.6	
7	.0	.4	4.3	.3	.0	.0	5.5	
8-9	.0	.4	2.0	1.2	.0	.0	3.6	
10-11	.0	.4	.4	.8	.0	.0	1.6	
12	.0	.4	.0	.4	.0	.0	.8	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.9	43.9	37.2	7.1	.0	.0	100.0	253

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	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	15.7	15.1	5.3	.8	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	289	3
6-7	.0	1.2	6.2	8.5	3.0	.8	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	136	5
8-9	.0	.5	.5	2.0	2.9	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	50	6
10-11	.0	.6	.5	.6	1.4	1.2	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	7
12-13	.0	.0	.2	.3	.0	.2	.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	8
>13	.0	.0	.0	.0	.0	.0	.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	1
TOT	11.9	4.5	2.3	.6	1.2	.6	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	143	2
TOTAL	117	149	163	114	61	33	16	3	4	2	0	0	0	0	0	0	0	0	0	0	662	4
PCT	17.7	22.5	24.6	17.2	9.2	5.0	2.4	.5	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1950-1970  
(OVER-ALL) 1865-1970

AREA 0021 S. GULF OF OMAN  
29.1N 59.2E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE			HAIL	PRECIPITATION TYPE			THDR	OTHER WEATHER PHENOMENA				TOTAL										
	RAIN	SHWR	SHMR		ORZL	FRZG	SNOW		OTHER	FRZN	PCPN	PCPN AT		PCPN DB TIME	PCPN OBS	FOG	SMOKE	HAZE	BLWG	DUST	NO	SIG	WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	20
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	30
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	78
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	181
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	201
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	128
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	26
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	24
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	49
CALH	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	740
TOT OBS	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	61	.0	.0	.0	.0	.0	.0	.0	.0	662
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.2	.0	.0	.0	.0	.0	.0	.0	.0	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE			HAIL	PRECIPITATION TYPE			THDR	OTHER WEATHER PHENOMENA				TOTAL										
	RAIN	SHWR	SHMR		ORZL	FRZG	SNOW		OTHER	FRZN	PCPN	PCPN AT		PCPN DB TIME	PCPN OBS	FOG	SMOKE	HAZE	BLWG	DUST	NO	SIG	WEA
0000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	.0	.0	.0	.0	.0	.0	.0	.0	176
0600	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.4	.0	.0	.0	.0	.0	.0	.0	.0	202
1200	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.2	.0	.0	.0	.0	.0	.0	.0	.0	213
1800	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	.0	.0	.0	.0	.0	.0	.0	.0	189
TOT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	64	.0	.0	.0	.0	.0	.0	.0	.0	780
PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.2	.0	.0	.0	.0	.0	.0	.0	.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1950-1970  
(OVER-ALL) 1865-1970

AREA 0021, S. GULF OF OMAN  
23.1N 59.3E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.8	1.7	.1	.0	.0	.0	22	2.7	5.2	2.7	0.0	3.8	3.4	2.2	10.0	.6	5.0
NE	1.2	3.3	.1	.0	.0	.0	38	4.6	5.4	4.0	11.8	3.4	1.7	7.6	3.3	2.4	10.0
E	1.6	7.7	1.1	.0	.0	.0	86	13.3	6.8	9.8	11.8	11.9	12.9	14.5	8.3	6.0	.0
SE	2.7	16.6	5.4	.0	.0	.0	206	24.7	8.2	23.3	11.8	20.5	21.6	27.0	30.0	28.2	30.0
S	1.7	12.7	12.2	.6	.0	.0	216	27.2	10.8	26.0	35.3	29.3	20.7	23.2	25.0	32.2	20.0
SW	.7	8.6	6.8	.8	.0	.0	141	17.0	11.0	18.8	11.8	17.5	23.9	12.6	10.0	19.5	21.3
W	.7	2.3	.0	.0	.0	.0	31	3.7	7.8	4.0	5.9	3.8	.0	3.7	.0	4.4	2.8
NW	.6	2.4	.1	.0	.0	.0	25	3.0	6.1	1.4	.0	3.3	3.4	5.3	6.7	1.1	5.0
VAR	.0	.0	.0	.0	.0	.0	0	0	.0	1.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.7	.0	.0	.0	.0	.0	56	6.7	.0	9.8	17.6	6.5	10.3	3.9	6.7	5.6	5.0
TOT OBS	140	461	221	12	0	0	834	100.0	8.4	173	17	184	29	203	30	178	20
TOT PCT	15.8	55.3	26.5	1.4	.0	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)					
	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.9	.7	.1	.0	.0	22	2.7	5.2	2.5	2.5	3.8	3.2	3.2	3.2	1.0	.0
NE	3.1	1.5	.0	.0	.0	38	4.6	5.4	4.7	4.7	3.2	7.1	7.1	3.2	.0	.0
E	5.8	4.6	.0	.0	.0	86	10.3	6.8	9.5	9.5	12.0	13.7	13.7	5.4	.0	.0
SE	9.4	14.6	.7	.0	.0	206	24.7	8.2	22.2	20.7	27.4	27.4	28.4	28.4	.0	.0
S	6.3	16.5	4.4	.0	.0	226	27.2	10.2	26.8	28.2	23.4	30.9	30.9	.0	.0	.0
SW	4.3	9.7	1.0	.0	.0	141	17.0	11.0	18.2	18.7	12.2	19.7	19.7	.0	.0	.0
W	1.5	1.9	.3	.0	.0	31	3.7	7.8	4.2	3.3	3.2	4.3	4.3	.0	.0	.0
NW	1.9	1.0	.1	.0	.0	25	3.0	6.1	1.3	3.3	5.5	1.5	1.5	.0	.0	.0
VAR	.0	.0	.0	.0	.0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.7	.0	.0	.0	.0	56	6.7	.0	0.5	7.0	7.0	4.3	4.3	5.6	.0	.0
TOT OBS	342	421	71	0	0	834	100.0	8.4	190	213	233	198	198	.0	.0	.0
TOT PCT	41.0	50.5	8.5	.0	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0



SEPTEMBER  
 APEA 0021 S. GULF OF DMAN  
 23.1N 59.3E

PERIOD: (PRIMARY) 1950-1970  
 (OVER-ALL) 1965-1970

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GRT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+				
0600	10.5	11.1	52.6	1.6	0	0	0	8.3	100.0	190	
0609	7.0	8.5	56.3	2.3	0	0	0	8.5	100.0	213	
12615	4.3	11.6	57.9	1.4	0	0	0	8.2	100.0	233	
18621	5.6	9.1	53.5	30.0	1.0	0	0	8.7	100.0	198	
TOT	56	84	461	221	0	0	0	8.4		524	
PCT	6.7	10.1	55.3	26.5	1.4	0	0		100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8-6	TOTAL OBS	MEAN CLOUD COVER	
						000	145
N	2.1	0	3	0	19	0.7	0.7
NE	3.7	0.3	0	0	27	0.5	0.5
E	8.3	1.0	0.7	0.3	69	1.2	1.2
SE	21.9	2.3	1.3	0.3	174	0.2	0.2
S	24.8	1.3	1.5	0.2	188	0.7	0.7
SW	14.9	0.5	1.1	0.0	114	1.0	1.0
W	3.3	0.1	0.2	0.0	25	1.0	1.0
NW	2.3	0.1	0.2	0.0	17	0.7	0.7
VAR	0.0	0.0	0.0	0.0	0	0.0	0.0
CALM	5.9	0.1	0.3	0.0	43	0.4	0.4
TOT OBS	589	40	37	0	675	0.8	0.8
TOT PCT	37.3	5.9	5.5	1.3	100.0		

TABLE 6

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

WIND DIR	000	150	300	600	1000	2000	3500	5000	8000+	NH <5/8	ANY HGT	TOTAL OBS
N	0	0	0	0	0	0	1	0	0	0	0	19
NE	0	0	0	0	0	0	0	0	0	0	0	27
E	0	0	0	0.1	0	0.2	0.2	0.1	0	0	0	69
SE	0	0	0	0	0.3	0.3	0.2	0.2	0	0	0	174
S	0	0	0	0	0.4	0.1	0.3	0	0	0	0	188
SW	0	0	0	0	0.5	0	0.7	0	0	0	0	114
W	0	0	0	0	0	0	0	0	0	0	0	25
NW	0	0	0	0	0	0	0	0	0	0	0	17
VAR	0	0	0	0	0	0	0	0	0	0	0	0
CALM	0	0	0	0.1	0	0	0	0	0	0	0	43
TOT OBS	3	0	0	2	8	4	3	2	3	0	0	675
TOT PCT	0.4	0	0	0.3	1.2	0.6	0.4	0.3	0.4	0	0	100.0

PERIOD: (PRIMARY) 1950-1970  
(OVER-ALL) 1865-1970

SEPTEMBER

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 7

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

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
OR >6500	.3	.4	.4	.4	.4	.4	.4	.4
OR >5000	.4	.6	.7	.7	.7	.7	.7	.7
OR >3500	.8	1.0	1.1	1.1	1.1	1.1	1.1	1.1
OR >2000	1.4	1.6	1.7	1.7	1.7	1.7	1.7	1.7
OR >1000	2.0	2.3	2.6	2.8	2.8	2.8	2.8	2.8
OR >600	2.0	2.8	3.1	3.1	3.1	3.1	3.1	3.1
OR >500	2.0	2.8	3.1	3.1	3.1	3.1	3.1	3.1
OR >150	2.0	2.8	3.1	3.1	3.1	3.1	3.1	3.1
OR >0	2.0	2.8	3.1	3.1	3.1	3.1	3.1	3.1
TOTAL	14	20	24	24	24	24	25	25

TOTAL NUMBER OF OBS: 709

PCT FREQ NH <5/8: 96.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL
709	11.5	6.1	2.8	1.5	1.0	1.3	.7	.4	.3	719

PERIOD: (PRIMARY) 1952-1970  
(OVER-ALL) 1855-1970

SEPTEMBER

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 8  
PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (MI)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	2.7	1.1	10.6	24.6	47.3	17.3	3.5	3.3	.0	6.6	100.0	740
TOT PCT												

PERIOD: (PRIMARY) 1/30-1970  
(OVER-ALL) 1865-1970

SEPTEMBER

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 9

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

VSBY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAN	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.1	.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	.1	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	11-21	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	TOT %	.1	.0	.0	.1	.0	.0	.0	.1	.0	.1	.4	
2<5	0-3	.0	.1	.0	.1	.0	.1	.0	.0	.0	.1	.5	
	4-10	.0	.1	.1	.3	.1	.1	.1	.0	.0	.0	.9	
	11-21	.0	.0	.0	.1	.5	.4	.0	.0	.0	.0	1.0	
	TOT %	.0	.3	.1	.5	.7	.6	.1	.0	.0	.1	2.4	
5<10	0-3	.1	.4	.3	.2	.4	.1	.0	.3	.0	.9	2.6	
	4-10	.3	1.0	1.0	1.9	2.3	1.3	.2	.6	.0	.0	8.6	
	11-21	.0	.0	.4	1.1	2.4	1.9	.1	.0	.0	.0	5.9	
	TOT %	.4	1.4	1.8	3.2	5.2	3.4	.3	.8	.0	.9	17.4	
10+	0-3	.7	.8	1.4	2.2	1.3	.5	.7	.3	.0	5.7	13.5	
	4-10	1.5	1.9	6.6	13.8	10.3	7.7	1.9	1.9	.0	.0	45.6	
	11-21	.1	.1	.7	4.3	9.2	4.3	.5	.4	.0	.0	19.4	
	TOT %	2.3	2.8	8.7	20.3	21.2	13.1	3.1	2.3	.0	5.7	79.5	
TOT OBS		2.8	4.4	10.5	24.1	27.0	17.3	3.8	3.2	.0	6.8	100.0	794

SEPTEMBER  
 AREA 0021 S. GULF OF OMAN  
 23.1N 59.3E

PERIOD: (PRIMARY) 1950-1970  
 (OVER-ALL) 1865-1970

TABLE 10  
 PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) (NH > 4/8) AND  
 OCCURRENCE OF 1 < 5/8 BY HOUR

HOUR (GMT)	000		150		300		600		1000		2000		3500		5000		6500		8000+		TOTAL NH < 5/8 ANY HGT	TOTAL OBS	
	149	299	599	999	1999	3499	4999	5499	7999	8999	9999	14999	24999	34999	44999	54999	64999	74999	84999	94999			
00003	.6	.0	.0	.0	.6	1.9	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	95.6	160
06009	.0	.0	.0	.0	.0	1.6	.5	.5	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	3.2	96.8	185
12015	.5	.0	.0	.0	.5	.0	.5	.0	.5	1.1	.0	.5	1.1	.0	.0	.0	.0	.0	.0	.0	3.2	96.8	189
18021	.5	.0	.0	.0	.0	1.1	.5	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	96.7	184
TOT	.3	.0	.0	.0	.2	.8	.4	.3	.2	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	2.5	69.2	71.5
PCT	.4	.0	.0	.0	.3	1.1	.6	.4	.3	.4	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	3.5	96.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	< 1/2		1/2 < 1		1 < 2		2 < 5		5 < 10		10+		TOTAL OBS
	1	0	1	0	1	0	1	0	1	0	1	0	
00003	.6	.0	.0	.0	.0	.0	1.9	20.3	77.2	1.8	1.8	1.8	158
06009	.0	.0	.0	.0	.0	.0	1.6	15.8	82.1	1.8	1.8	1.8	184
12015	.0	.0	.0	.0	.0	.0	3.2	15.4	80.9	1.8	1.8	1.8	188
18021	.0	.0	.0	.0	.0	.0	2.8	11.7	85.5	1.9	1.9	1.9	179
TOT	.1	.0	.0	.0	.0	.0	.17	1.11	5.78	70.9	70.9	70.9	709
PCT	.1	.0	.0	.0	.0	.0	2.4	15.7	81.5	100.0	100.0	100.0	100.0

TABLE 12

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

HOUR (GMT)	< 150		< 500		< 1000		1000+		NH < 5/8		TOTAL OBS
	< 50 YD	< 1	< 500	< 1	< 1000	< 1	AND 5+	AND 5+	AND 5+		
00003	.6	.6	.6	.6	3.2	2.5	94.3	94.3	1.8	1.8	158
06009	.0	.0	.0	.0	2.2	3.3	94.6	94.6	1.8	1.8	184
12015	.5	.5	.5	.5	4.3	1.6	94.1	94.1	1.8	1.8	188
18021	.6	.6	.6	.6	2.8	2.8	94.4	94.4	1.9	1.9	179
TOT	.3	.3	.3	.3	2.2	1.8	66.9	66.9	70.9	70.9	709
PCT	.4	.4	.4	.4	3.1	2.5	94.4	94.4	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1950-1970  
(SECONDARY) 1865-1970

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS			
95/99	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	1	.2
90/94	.0	.0	.2	.7	2.2	3.6	1.0	.5	.5	.5	48	8.2
85/89	.0	.0	.0	.5	2.9	11.0	9.8	2.2	2.2	2.2	154	26.3
80/84	.0	.0	.0	.2	1.5	7.1	21.0	9.5	2.2	2.2	221	39.0
75/79	.0	.0	.0	.0	.3	1.7	11.2	10.3	2.2	2.2	137	23.6
70/74	.0	.0	.0	.0	.0	.0	.0	2.2	2.2	2.2	13	2.2
TOTAL	.0	.0	1	9	41	136	250	144	144	144	591	100.0
PCT	.0	.0	1.5	7.1	23.4	43.0	24.8					

TABLE 14

TEMP	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										VAR	CALM
	N	NE	E	SE	S	SW	W	NW	VAR	CALM		
95/99	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
90/94	.2	.3	.6	1.9	1.1	.5	.5	.9	.9	.0	.0	1.9
85/89	1.9	2.1	3.7	8.4	3.9	1.6	1.3	1.5	.0	.0	.0	2.2
80/84	.9	1.1	5.1	11.9	11.4	5.0	1.7	.6	.7	.7	.7	1.9
75/79	.0	.4	.5	3.3	11.2	7.0	.7	.0	.0	.0	.0	.5
70/74	.0	.0	.0	.0	.4	1.4	.4	.0	.0	.0	.0	.0
TOTAL	1.4	2.2	5.8	14.7	16.2	9.3	2.7	1.7	.0	.0	.0	3.8
PCT	2.5	3.9	10.0	25.4	28.0	16.0	4.6	3.0	.0	.0	.0	6.5

TABLE 15

HOUR (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL OBS
	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS		
00203	91	88	87	81	73	71	70	80.7	198	198	
06209	93	93	91	84	76	74	72	83.9	222	222	
12215	97	93	92	85	77	75	74	84.6	236	236	
18221	90	89	88	82	75	73	71	81.3	205	205	
TOT	97	93	90	83	75	72	70	82.7	861	861	

TABLE 16

HOUR (GMT)	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL OBS
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS	
00203	.0	.7	2.9	7.3	44.5	44.5	44.5	44.5	87	137	
06209	.0	2.4	11.3	33.3	39.9	13.1	13.1	79	79	138	
12215	.0	3.0	9.6	33.1	44.0	10.2	10.2	79	79	166	
18221	.0	.7	2.1	19.6	43.5	34.3	34.3	86	86	143	
TOT	.0	11	42	149	203	149	149	83	83	614	

PERIOD: (PRIMARY) 1950-1970  
(OVER-ALL) 1865-1970

SEPTEMBER

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 17

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

AIR-SEA TMP DIF	69	73	77	81	85	89	93	TOT	H	WD
	72	76	80	84	88	92	96	FOG	FOG	FOG
14/16	.0	.0	.0	.0	.1	.1	.0	2	.0	.3
11/13	.0	.0	.0	.1	.4	.1	.1	6	.0	.9
9/10	.0	.0	.0	.4	.6	.4	.1	8	.0	1.2
7/8	.0	.0	.1	1.3	.6	.4	.1	18	.0	2.7
6	.0	.1	.1	.3	.4	.6	.1	12	.0	1.8
5	.0	.3	.6	.7	.4	.9	.3	22	.0	3.2
4	.0	.3	.6	1.5	1.0	.9	.1	30	.0	4.5
3	.0	.6	1.2	1.9	1.0	1.8	.3	39	.0	5.8
2	.0	.6	2.1	2.4	2.5	1.2	.0	59	.0	8.8
1	.0	.9	1.6	2.2	1.8	1.5	.0	54	.0	8.0
0	.0	1.9	2.1	4.5	5.4	.6	.1	98	.3	14.3
-1	.3	.4	1.8	4.5	3.6	.6	.0	75	.0	11.2
-2	.3	.7	1.6	4.2	1.6	.1	.0	58	.0	8.6
-3	.1	.6	2.1	3.0	2.1	.1	.0	54	.4	7.6
-4	.1	1.3	1.2	2.4	1.5	.0	.0	45	.1	6.6
-5	.0	.7	1.2	1.8	.1	.0	.0	23	.0	3.4
-6	.0	.7	1.6	1.9	.3	.0	.0	31	.0	4.6
-7/-8	.0	.3	1.8	.9	.4	.0	.0	23	.0	3.4
-9/-10	.0	.1	.9	.4	.1	.0	.0	11	.0	1.6
-11/-13	.0	.0	.3	.1	.0	.0	.0	3	.0	.4
TOTAL	6	63	142	226	163	61	10	671	6	665
PCT	.9	9.4	21.2	33.7	24.3	9.1	1.3	100.0	.9	99.1

SEPTEMBER  
TABLE 1B

PERIOD (PRIMARY)  
(OVER-ALL) 1967-1970

AREA 0021 S. GULF OF OMAN  
29.1N 59.2E

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

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

HGT <1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25 26-32 33-40 41-48 49-60 61-70 71-86 87+	E										SE										48+	PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+		
<1	.7	.7	.0	.0	.0	.0	1.3	2.1	2.8	.0	.0	.0	.0	4.9	.0	.0	.0	.0	.0	.0	.0	4.9
1-2	1.2	8.4	.0	.0	.0	.0	9.6	.2	6.4	4.9	.0	.0	.0	13.5	.0	.0	.0	.0	.0	.0	.0	13.5
3-4	.7	3.1	1.8	.0	.0	.0	5.6	.0	2.8	3.0	.0	.0	.0	5.8	.0	.0	.0	.0	.0	.0	.0	5.8
5-6	.0	.7	.7	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.5	12.8	2.5	.0	.0	.0	17.8	2.3	14.0	7.9	.0	.0	.0	24.2	.0	.0	.0	.0	.0	.0	.0	24.2



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

HGT	S					SW					48+	PCT	
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33			34-47
<1	.5	1.8	.0	.0	.0	.0	.0	1.2	.0	.0	.0	.0	1.3
1-2	.0	7.4	6.6	.0	.0	.0	.0	6.4	.3	.0	.0	.0	6.7
3-4	.0	4.6	6.4	.0	.0	.0	.0	3.1	5.4	.0	.0	.0	8.6
5-6	.0	4.7	4.4	.0	.0	.0	.0	.8	1.5	.0	.0	.0	2.3
7	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-43	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
45-50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	14.5	16.8	.0	.0	.0	.0	11.7	7.2	.0	.0	.0	18.9

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



OCTOBER

PERIOD (PRIMARY) 1951-1970  
(OVER-ALL) 1903-1970

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 1  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHHR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THDR WTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG PCPN	SNOW	OTHER PCPN					FOG	SHR	SMOKE	HAZE	
N	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.3	.4	.0	79
NE	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.4	.4	.1	5.9	58
E	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.2	.2	.0	7.8	58
SE	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.4	.4	.1	18.6	174
S	.0	.0	.0	.0	.0	.0	.0	.0	0	.1	.0	.2	.1	13.5	126
SW	.0	.0	.0	.0	.0	.0	.0	.0	0	.2	.0	.3	.1	9.8	95
W	.0	.0	.0	.0	.0	.0	.0	.0	0	.1	.0	.1	.1	6.4	94
NW	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.2	.2	.1	10.1	94
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.4	.4	.1	15.9	150
TOT OBS	.0	.0	.0	.0	.0	.0	.0	.0	0	.3	.0	.4	.1	87.6	913
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	0	.3	.0	2.6	1.1	95.9	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHHR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THDR WTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG PCPN	SNOW	OTHER PCPN					FOG	SHR	SMOKE	HAZE	
0000	.0	.0	.0	.0	.0	.0	.0	.0	0	.4	.0	3.3	.5	95.5	246
0600	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	3.8	1.1	95.1	255
1200	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.2	2.5	2.1	95.3	235
1800	.0	.0	.0	.0	.0	.0	.0	.0	0	.9	.0	.1	.1	98.6	215
TOT	.0	.0	.0	.0	.0	.0	.0	0	0	3	.0	7.5	1.0	92.8	961
PCT	.0	.0	.0	.0	.0	.0	.0	.0	0	.3	.0	2.6	1.0	96.0	100.0

OCTOBER

PERIOD (PRIMARY) 1951-1970  
(OVER-ALL) 1905-1970

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)											
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL URS	PCT FREQ	MEAN SPO	OC	03	06	09	12	15	18	21					
N	2.0	5.5	.9	.0	.0	.0	84	8.5	6.3	8.5	2.9	7.0	.0	12.4	.0	7.1	12.5					
NE	2.1	3.2	.9	.1	.0	.0	64	3.9	6.4	3.9	5.9	6.6	14.0	19.5	.0	5.0	15.0					
E	2.3	5.5	.6	.0	.0	.0	84	5.6	5.8	5.6	20.0	6.0	10.4	13.0	7.7	7.5	15.0					
SE	3.4	13.1	2.2	.0	.0	.0	190	18.2	6.9	18.2	20.6	16.0	12.5	19.3	19.2	23.0	18.8					
S	2.2	19.1	2.9	.1	.0	.0	142	14.6	7.8	14.6	17.6	12.0	25.0	12.9	15.4	15.2	18.8					
SW	1.4	5.5	3.0	.1	.0	.0	101	12.9	8.6	12.9	5.9	13.0	8.2	4.7	11.5	10.5	5.0					
W	1.8	3.8	.8	.0	.0	.0	64	5.0	6.4	5.0	10.3	9.5	2.1	5.5	7.7	4.7	12.5					
NW	2.4	6.5	1.4	.0	.0	.0	102	8.9	6.9	8.9	10.3	11.2	14.6	12.3	7.7	7.7	13.5					
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
CALM	16.8						168	22.4	5.8	22.4	5.9	17.9	12.5	10.4	30.8	18.4	.0					
TOT OBS	345	525	128	3	0	0	1002	241	5.8	241	17	251	24	240	13	196	20					
TOT PCT	34.4	52.5	12.8	.3	.0	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0					

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)											
	0-6	7-16	17-27	28-40	41+	TOTAL DPS	PCT FREQ	MEAN SPO	00	03	06	09	12	15	18	21						
N	5.1	3.4	.0	.0	.0	84	8.5	6.3	8.1	6.4	6.4	11.8	7.6									
NE	3.9	2.4	.1	.0	.0	64	6.4	6.4	4.1	7.3	9.0	5.0										
E	6.1	2.1	.2	.0	.0	84	8.4	5.8	6.6	6.4	12.7	8.2										
SE	10.4	8.2	.4	.0	.0	190	19.0	6.9	18.3	15.5	19.3	22.6										
S	6.2	7.6	.3	.0	.0	142	14.2	7.8	14.8	13.1	13.0	16.4										
SW	4.3	5.0	.7	.0	.0	101	10.1	8.6	12.4	12.6	5.0	10.0										
W	3.9	2.3	.2	.0	.0	64	6.4	6.2	5.3	8.8	5.6	5.4										
NW	5.3	4.7	.2	.0	.0	102	10.3	6.9	5.0	11.5	12.1	8.1										
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0										
CALM	16.8					168	16.8	5.8	21.3	17.5	11.5	16.7										
TOT OBS	621	358	23	0	0	1002	100.0	5.8	258	275	253	216										
TOT PCT	62.0	35.7	2.3	.0	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0										

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

PERIOD: (PRIMARY) 1951-1970  
 (OVER-ALL) 1906-1970

HOUR	CALM	WIND SPEED (KNOTS)					MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47			
0000	21.3	17.4	48.6	12.4	0	0	5.5	100.0	258
0600	17.5	17.5	47.3	17.1	0	0	6.0	100.0	275
1200	11.5	13.4	63.2	11.5	0	0	6.3	100.0	253
1800	16.7	23.1	50.9	9.3	0	0	5.3	100.0	216
TOT	168	177	526	178	3	0	5.8		1002
PCT	16.8	17.7	52.5	12.8	.3	0		100.0	

AREA 002, S. GULF OF OMAN  
 23.1N 59.3E

TABLE 5

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

WIND DIR	PCT FREQ								TOTAL OBS	MEAN CLOUD COVS	
	0-2	3-4	5-7	8-6	DBSCO	000	150	300			
N	9.7	0	0	1	1	0	0	0	0	76	14
NE	5.7	0	1	0	0	0	0	0	0	53	5
E	7.0	0	0	0	0	0	0	0	0	62	5
SE	18.5	0	1	0	0	0	0	0	0	163	3
S	12.8	0	0	0	0	0	0	0	0	109	1
SW	9.3	0	0	0	0	0	0	0	0	84	5
W	6.2	0	0	0	0	0	0	0	0	52	1
NW	10.9	0	0	0	0	0	0	0	0	92	1
VAR	0	0	0	0	0	0	0	0	0	0	0
CALM	17.2	0	0	0	0	0	0	0	0	148	1
TOT OBS	812	23	7	1	1	0	0	0	0	843	3
TOT PCT	86.3	2.7	.8	.1	.1	0	0	0	0	100.0	

TABLE 6

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

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/MH >4/8)								TOTAL OBS	ANY HGT <5/8	
	000	150	300	600	1000	2000	3500	5000			
N	0	0	0	0	0	0	0	0	0	76	0
NE	0	0	0	0	0	0	0	0	0	53	0
E	0	0	0	0	0	0	0	0	0	62	0
SE	0	0	0	0	0	0	0	0	0	163	0
S	0	0	0	0	0	0	0	0	0	109	0
SW	0	0	0	0	0	0	0	0	0	84	0
W	0	0	0	0	0	0	0	0	0	52	0
NW	0	0	0	0	0	0	0	0	0	92	0
VAR	0	0	0	0	0	0	0	0	0	0	0
CALM	0	0	0	0	0	0	0	0	0	148	0
TOT OBS	812	23	7	1	1	0	0	0	0	843	0
TOT PCT	86.3	2.7	.8	.1	.1	0	0	0	0	100.0	0

PERIOD: (PRIMARY) 1951-1970  
(OVER-ALL) 1906-1970

OCTOBER

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 7  
CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	>10		>5		>2		>1		>1/2		>1/4		>50YD		>50	
	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR
OR >4500	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
OR >5000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
OR >3500	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
OR >2000	.1	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
OR >1000	.3	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5
OR >600	.3	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5
OR >300	.3	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6
OR >150	.3	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6
OR > 0	.3	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6
TOTAL	.3	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5

TOTAL NUMBER OF OBS: 386 PCT FREQ NH <5/8: 99.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)		TOTAL OBS							
0	1	2	3	4	5	6	7	8	DBSCO OBS
84.5	10.5	3.0	.8	.8	.3	.0	.2	.0	.0
									914

PERIOD (PRIMARY) 1951-1970  
 (OVER-ALL) 1906-1970

OCTOBER

AREA 0021 S. GULF OF OMAN  
 23.1N 9.3E

TABLE 8  
 PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
 PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (MM)	N	NE	E	SE	S	SW	W	NW	VAR	LALH	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCP	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCP	.9	1.1	.5	.5	.8	1.3	1.1	.6	.0	1.0	7.9	.0
NO PCP	.9	1.1	.5	.5	.8	1.3	1.1	.6	.0	1.0	7.9	.0
TOT %	.9	1.1	.5	.5	.8	1.3	1.1	.6	.0	1.0	7.9	.0
10+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCP	7.7	5.3	7.5	18.5	13.0	9.1	5.6	9.8	.0	15.2	91.8	.0
NO PCP	7.7	5.3	7.5	18.5	13.0	9.1	5.6	9.8	.0	15.2	91.8	.0
TOT %	7.7	5.3	7.5	18.5	13.0	9.1	5.6	9.8	.0	15.2	91.8	.0
TOT OBS	8.7	6.4	8.0	19.1	13.9	10.4	6.7	10.4	.0	16.4	100.0	913
TOT PCT	8.7	6.4	8.0	19.1	13.9	10.4	6.7	10.4	.0	16.4	100.0	913

PERIOD: (PRIMARY) 1951-1970  
(COVER-ALL) 1906-1970

OCTOBER

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 9

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

VSRY (NM)	SPD KTC	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	0-3	.1	.2	.2	.2	.2	.3	.3	.3	.2	.0	1.0	2.6
	4-10	.8	.7	.8	.8	.7	.7	.5	.3	.0	.0	4.8	4.8
	11-21	.0	.2	.0	.1	.1	.3	.0	.1	.0	.0	.8	.8
	22+	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
TOT %	.9	1.0	.4	.9	1.1	1.2	1.0	.6	.3	.0	1.6	8.3	
10+	0-3	2.0	2.2	1.8	3.3	2.0	1.1	3.3	2.2	.0	15.1	31.1	31.1
	4-10	4.0	2.6	3.4	12.7	6.1	4.9	4.9	6.3	.0	.0	47.9	47.9
	11-21	1.0	.7	.6	2.0	2.8	2.7	.8	1.3	.0	.0	12.0	12.0
	22+	.0	.0	.0	.1	.1	.1	.1	.0	.0	.0	.2	.2
TOT %	7.5	5.5	7.9	18.1	13.0	8.9	5.5	7.8	3.8	.0	15.1	91.2	
TOT OBS		8.5	6.3	8.3	19.0	14.1	10.1	6.5	10.5	.0	15.5	100.0	980



OCTOBER

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

PERIOD: (PRIMARY) 1951-1970  
(OVER-ALL) 1906-1970

TABLE 10

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

HOUR (GMT)	000	150	300	450	600	1000	2000	3500	5000	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL
00003	.0	.0	.0	.0	.0	.4	.4	.0	.0	.0	.0	.0	99.1
06009	.0	.0	.4	.0	.0	.4	.4	.0	.0	.0	.0	.8	99.2
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
18021	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.5	95.5
TOT	.0	.0	.1	.0	.2	.2	.2	.0	.0	.0	.0	.5	90.5
PCT	.0	.0	.1	.0	.2	.2	.2	.0	.0	.0	.0	.5	99.5

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	< 1/8	1/2 < 1	1 < 2	2 < 5	5 < 10	10+	TOTAL
00003	.0	.0	.0	.5	6.0	93.6	218
06009	.0	.0	.0	.0	8.4	91.6	250
12015	.0	.0	.0	.0	4.2	95.8	216
18021	.0	.0	.0	1.0	5.4	93.6	202
TOT	.0	.0	.0	.2	3.4	93.6	886
PCT	.0	.0	.0	.2	6.1	93.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR CEILING HGT (FEET, NH > 4/8, 3Y HOUR

HOUR (GMT)	< 150	< 600	< 1000	1000+	NH < 5/8	TOTAL
00003	.0	.0	.0	.5	.9	98.6
06009	.0	.0	.0	.4	.4	99.2
12015	.0	.0	.0	.0	.0	100.0
18021	.0	.0	.0	1.0	.5	98.5
TOT	.0	.0	.0	.1	.4	87.8
PCT	.0	.0	.0	.1	.5	99.1

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PERIOD: (PRIMARY) 1951-1970  
(COVER-ALL) 1906-1970

AREA 0021, S. GULF OF OMAN  
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TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100				
95/99	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	2	.3
90/94	.0	.0	.4	1.1	1.9	.8	.4	.1	.1	.1	36	4.8
85/89	.0	.0	.7	3.6	6.8	10.7	5.0	1.1	1.1	2.5	225	29.8
80/84	.0	.0	.4	1.6	9.0	18.7	17.4	4.1	4.1	5.6	586	51.2
75/79	.0	.0	.0	.4	2.1	3.7	3.8	3.0	3.0	1.3	103	13.7
70/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.3
TOTAL	.0	.0	.12	.50	1.65	2.17	2.01	.69	.69	7.54	100.0	
PCT	.0	.0	1.6	6.6	21.9	34.1	26.7	9.2				

TABLE 14

TEMP F	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										VAR	CALM
	N	E	SE	S	SW	W	NW					
95/99	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
90/94	.6	.4	.2	.9	.4	.6	.7	.7	.7	.7	.7	.1
85/89	2.1	1.8	3.4	6.1	2.1	2.5	4.0	4.0	4.0	4.0	4.0	.0
80/84	4.9	2.9	3.2	12.4	8.1	2.5	4.0	4.0	4.0	4.0	4.0	.0
75/79	1.1	1.3	.5	.8	2.8	.7	.9	.9	.9	.9	.9	.0
70/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	6.5	4.8	5.6	15.2	10.0	7.5	5.4	7.3	7.3	7.3	7.3	.0
PCT	8.7	6.4	7.4	20.2	13.3	10.0	7.2	9.7	9.7	9.7	9.7	.0

TABLE 15

HOUR (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL OBS
	MAX	99%	95%	50%	5%	1%	MIN	MEAN			
00203	88	87	86	81	75	73	72	80.9	264		
06209	93	92	90	85	79	75	73	84.5	289		
12215	93	94	92	85	79	78	76	85.4	255		
18221	87	86	86	82	78	75	75	81.8	226		
TOT	95	93	89	83	77	75	72	83.2	1034		

TABLE 16

HOUR (GMT)	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL OBS
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	VAR	
00203	.0	3.5	13.9	32.3	33.3	16.9	79	201			
06209	.0	12.1	23.8	35.8	23.3	4.0	73	223			
12215	.0	14.3	35.2	32.1	17.3	1.0	70	196			
18221	.0	1.1	13.5	36.5	34.3	14.6	79	176			
TOT	0	64	174	275	214	71	75	798			

PERIOD: (PRIMARY) 1921-1970  
(OVER-ALL) 1906-1970

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AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 17

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

AT -SEA T P OIF	73	76	77	80	81	84	85	88	89	92	93	96	TOT	W	FOG	MD	FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	1	.0	.0	.1	.0
11/13	.0	.0	.0	.0	.0	.0	.2	.2	.1	.3	.2	.2	5	.0	.0	.6	.0
9/10	.0	.0	.0	.0	.2	.0	.0	.0	.5	.3	.0	.0	9	.0	.0	1.0	.0
7/8	.0	.0	.1	.2	1.1	.7	.1	.1	.7	.1	.1	.1	20	.0	.0	2.3	.0
6	.0	.0	.0	.0	.0	.0	.6	.9	.9	.1	.1	.1	14	.0	.0	1.6	.0
5	.0	.1	.3	1.1	1.6	.2	.0	.0	.2	.2	.2	.0	30	.0	.0	3.4	.0
4	.0	.1	.6	3.0	.7	.0	.0	.0	.3	.2	.0	.0	37	.0	.0	4.3	.0
3	.0	.2	1.3	3.7	.7	.0	.0	.0	.7	.0	.0	.0	51	.0	.0	5.9	.0
2	.1	.6	2.6	4.7	.2	.0	.0	.0	.2	.0	.0	.0	72	.0	.0	8.3	.0
1	.1	.3	3.9	3.9	.5	.0	.0	.0	.5	.0	.0	.0	76	.0	.0	8.7	.0
0	.0	.0	1.8	6.7	3.1	.3	.0	.0	.3	.0	.0	.0	104	.0	.0	12.0	.0
-1	.1	2.2	7.1	2.4	.1	.0	.0	.0	.1	.0	.0	.0	104	.0	.0	12.0	.0
-2	.3	3.6	7.9	1.5	.1	.0	.0	.0	.1	.0	.0	.0	117	.0	.0	13.4	.0
-3	.3	2.2	4.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	67	.0	.0	7.7	.0
-4	.3	3.2	3.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	66	.0	.0	7.6	.0
-5	.6	2.1	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	.0	.0	4.7	.0
-6	.1	1.8	1.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	30	.0	.0	2.4	.0
-7/-8	.8	.8	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	19	.0	.0	2.2	.0
-9/-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.0	.5	.0
-11/-13	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.0	.3	.0
TOTAL	28	171	371	235	54	1.1	6.2	1.3	1.1	1.1	1.1	1.1	870	0	0	870	0
PCT	3.2	19.7	42.6	27.0	6.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	100.0	0	0	100.0	0

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

OCTOBER  
TABLE 18

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

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

HGT	N				NE				48+	PCT					
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10			11-21	22-33	34-47		
<1	1.9	.0	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0	2.2	5.4	2.2
1-2	.0	5.8	.6	.0	.0	.0	6.4	.0	.0	.0	.0	1.3	3.5	.6	.0
3-4	.0	2.3	2.2	.0	.0	.0	4.5	.0	.0	.0	.0	.0	.0	.1	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	8.2	2.8	.0	.0	.0	12.9	.0	.0	3.5	3.5	.7	.0	.0	7.7

HGT	E				SE				48+	PCT					
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10			11-21	22-33	34-47		
<1	1.3	2.2	.0	.0	.0	.0	4.5	.0	.0	.0	.0	.0	.0	.0	5.0
1-2	.4	4.7	.0	.0	.0	.0	5.1	.0	.0	.0	.0	.0	.0	.0	9.4
3-4	.0	1.0	.0	.0	.0	.0	1.0	.0	.0	1.2	.0	.0	.0	.0	2.6
5-6	.0	.0	.4	.0	.0	.0	.4	.0	.0	.7	.1	.0	.0	.0	.9
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.8	7.9	.4	.0	.0	.0	11.1	.0	.0	1.2	14.0	2.5	.1	.0	17.8

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TABLE 18  
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PERIODS (PRIMARY)  
(DIVER-ALL) 1963-1970

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

HGT	S				SW				48+	PCT
	1-3	4-10	11-21	22-33	34-47	48+	11-21	22-33		
<1	.0	2.8	.0	.0	.0	.0	.0	.0	.0	3.7
1-2	.6	6.4	1.2	.0	.0	.0	.0	.0	.0	3.1
3-4	.0	1.5	1.0	.0	.0	.0	1.9	.0	.0	2.6
5-6	.0	1.6	1.6	.4	.0	.0	1.3	.0	.0	1.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.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
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	12.3	3.8	.4	.0	.0	3.2	.0	.0	10.8

HGT	NW				SW				48+	PCT
	1-3	4-10	11-21	22-33	34-47	48+	11-21	22-33		
<1	.0	.4	.0	.0	.0	.0	.0	.0	.0	2.5
1-2	.4	3.9	1.0	.0	.0	.0	.7	.0	.0	7.9
3-4	.0	.4	1.2	.0	.0	.0	1.8	.0	.0	2.5
5-6	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.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
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	4.8	2.2	.0	.0	.0	7.3	3.1	.0	13.5

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TABLE 18 (CONT)  
 WIND SPEED (KTS) VS SEA HEIGHT (FT)

WT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	31.4	10.6	.0	.0	.0	.0	42.0	
1-2	4.9	30.5	4.0	.0	.0	.0	39.4	
3-4	.0	6.6	.0	.0	.0	.0	13.3	
5-6	.0	1.3	3.5	.4	.0	.0	5.3	
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	36.3	49.1	14.2	.4	.0	.0	100.0	226

TABLE 19  
 PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-5	7	9-9	10-11	12	13-16	17-19	20-22	21-25	26-32	33-40	41-48	49-60	61-70	71-86	87+ TOTAL	MEAN HGT	
<6	12.8	27.1	11.7	2.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	371
6-7	.0	.0	3.2	2.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	45
8-9	.5	.3	.9	.3	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
100ET	28.9	4.4	1.5	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	240
TOTAL	285	222	118	44	7	1	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	678
PCT	42.0	32.7	17.4	6.5	1.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

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PERIOD (PRIMARY) 1950-1970  
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TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN		OR'L SHR	PRECIPITATION TYPE			HAIL	PCT DB	FREQ AT TIME	TOTAL OBS	THDR LYNG	OTHER WEATHER PHENOMENA					TOTAL O/S						
	SHR	SHR		FRZG	SNOW	OTHER						FRZN	PCPN	PCPN	PCPN	NO		HAZE	SMOKE	DUST	NO		
	SHR	SHR		PCPN	PCPN	PCPN						PCPN	PCPN	PCPN	PCPN	PCPN		PCPN	PCPN	PCPN	PCPN	PCPN	
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.1	.0	.0	.0	.0	.0	.0	.0	15.3	125		
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	13.5	124	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.7	88	
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.9	116	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.5	67	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	38	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	32	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	12.4	110	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALP	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	18.5	164	
TOT OBS	0	0	0	0	0	0	0	0	0	0	6	2	0	2	0	2	0	2	0	2	859	877	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.7	.2	.0	.2	.0	.2	.0	.2	.0	.2	97.9	100.0	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN		OR'L SHR	PRECIPITATION TYPE			HAIL	PCT DB	FREQ AT TIME	TOTAL OBS	THDR LYNG	OTHER WEATHER PHENOMENA					TOTAL OBS						
	SHR	SHR		FRZG	SNOW	OTHER						FRZN	PCPN	PCPN	PCPN	NO		HAZE	SMOKE	DUST	NO		
	SHR	SHR		PCPN	PCPN	PCPN						PCPN	PCPN	PCPN	PCPN	PCPN		PCPN	PCPN	PCPN	PCPN	PCPN	
0003	.0	.0	.0	.0	.0	.0	.0	.0	0	0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	97.9	238	
0609	.0	.0	.0	.0	.0	.0	.0	.0	0	0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4	98.5	261
12015	.0	.0	.0	.0	.0	.0	.0	.0	0	0	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.8	98.0	252
18023	.0	.0	.0	.0	.0	.0	.0	.0	0	0	1.5	.0	1.0	.0	.0	.0	.0	.0	.0	.0	1.0	97.5	198
TOT	0	0	0	0	0	0	0	0	0	0	7	2	0	2	0	2	0	2	0	2	930	949	
PCT	.0	.0	.0	.0	.0	.0	.0	.0	0	0	.7	.2	.0	.2	.0	.2	.0	.2	.0	.2	98.0	100.0	

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AREA 0021 S. GULF OF OMAN

PERIOD: (PRIMARY) 1950-1970  
(OVER-ALL) 1910-1970

TABLE 5

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)								
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPO		00	03	06	09	12	15	18	21	
N	2.3	3.9	1	.0	.0	.0	143	15.1	8.2	13.1	12.5	13.9	28.9	18.5	11.1	14.1	14.1	9.4	
NE	3.2	2.7	.2	.0	.0	.0	135	14.2	7.4	10.3	16.7	13.5	2.6	17.4	36.1	14.9	6.3	6.3	
E	2.2	7.1	.1	.0	.0	.0	96	10.1	6.1	4.2	.0	19.6	13.2	15.0	25.0	10.2	9.4	9.4	
SE	3.0	1.6	.0	.0	.0	.0	121	12.8	6.4	14.7	8.3	11.1	5.3	13.3	5.6	13.3	21.9	21.9	
S	1.3	5.3	.9	.0	.0	.0	71	7.5	6.8	8.5	.0	7.5	10.5	6.3	.0	8.7	6.3	6.3	
SW	1.3	2.2	.5	.0	.0	.0	39	4.2	5.5	6.9	25.0	4.8	2.6	1.8	.0	2.7	.0	.0	
W	2.9	3.0	.3	.0	.0	.0	39	4.	5.5	3.6	25.0	6.3	5.3	1.7	2.8	3.5	9.4	9.4	
NW	2.5	7.4	2.6	.1	.0	.0	121	12.	7.6	12.3	4.2	13.7	21.1	12.4	8.3	12.9	12.5	12.5	
VAP	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	19.1	.0	.0	.0	.0	.0	181	19.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	341	478	127	4	0	0	950	5.7	5.7	213	12	244	19	244	18	184	16	16	16
TOT PCT	35.9	50.3	13.4	.4	0	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)						41+	TOTAL OBS	PCT FREQ	MEAN SPO	HOUR (GMT)								
	0-6	7-16	17-27	28-40		00					03	06	09	12	15	18	21		
N	6.9	7.4	.9	.0	.0	.0	143	15.1	8.2	13.1	15.0	18.0	13.8	13.8	13.8	13.8	13.8	13.8	13.8
NE	7.5	5.7	.7	.0	.0	.0	135	14.2	7.4	10.7	12.7	18.7	14.3	14.3	14.3	14.3	14.3	14.3	14.3
E	6.6	3.4	.2	.0	.0	.0	96	10.1	6.1	4.0	9.9	15.6	10.1	10.1	10.1	10.1	10.1	10.1	10.1
SE	7.6	5.2	.0	.0	.0	.0	121	12.8	6.4	14.3	10.6	12.8	14.0	14.0	14.0	14.0	14.0	14.0	14.0
S	4.0	3.4	.1	.0	.0	.0	71	7.5	6.8	8.0	8.0	5.8	8.3	8.3	8.3	8.3	8.3	8.3	8.3
SW	2.8	1.4	.0	.0	.0	.0	39	4.2	5.5	7.9	4.7	1.7	2.5	2.5	2.5	2.5	2.5	2.5	2.5
W	3.1	1.1	.0	.0	.0	.0	39	4.2	5.5	4.3	6.2	1.8	4.0	4.0	4.0	4.0	4.0	4.0	4.0
NW	8.0	6.6	.1	.1	.0	.0	121	12.8	7.6	11.9	14.3	12.1	12.9	12.9	12.9	12.9	12.9	12.9	12.9
VAP	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	19.1	.0	.0	.0	.0	.0	181	19.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	607	324	18	1	0	0	950	19.1	5.7	25.3	18.6	13.4	20.0	20.0	20.0	20.0	20.0	20.0	20.0
TOT PCT	63.9	34.1	1.9	.1	.0	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0



PERIODS: (PRIMARY) 1950-1970  
 (OVER-ALL) 1910-1970

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3			4-10			11-21			WIND SPEED (KNOTS)			TOTAL OBS
		1-3	4-10	48+	MEAN	PCT FREQ	22-33	34-47	48+	MEAN	PCT FREQ			
0003	29.3	13.3	49.4	12.9	.0	5.4	100.0	225						
0609	18.0	17.1	51.7	12.2	.4	5.4	100.0	263						
1215	13.6	17.6	53.0	13.4	.0	5.1	100.0	262						
1821	20.0	19.5	44.5	15.5	.0	5.8	100.0	200						
TOT	18.7	16.0	47.8	12.7	.4	5.7	100.0	930						
PCT	19.1	16.8	50.3	13.4	.4	5.7	100.0							

TABLE 5

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

WIND DIR	PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)								TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8	9	10	11	12		
N	12.6	1.5	.7	.0	1.7	.8	.0	.0	117	.8
NE	12.1	.6	.7	.0	10.6	.8	.0	.0	106	.8
E	17.6	.8	.7	.1	17.4	1.3	.0	.0	100	1.3
SE	10.5	1.4	.6	.0	10.0	1.0	.0	.0	100	1.0
S	7.4	.6	.1	.0	6.4	.6	.0	.0	100	.6
SW	3.9	.2	.0	.0	3.2	.4	.0	.0	100	.4
W	3.6	.2	.1	.0	3.1	.7	.0	.0	100	.7
NW	11.9	.8	.3	.0	10.4	.7	.0	.0	104	.7
VAR	19.0	1.0	.0	.0	0	.0	.0	.0	0	.0
CALM	711	57	27	1	165	.3	.0	.0	756	.3
TOT OBS	59.3	7.2	3.4	.1	100.0	.7	.0	.0	100.0	.7

TABLE 6

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

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION										TOTAL OBS
	000	149	150	299	300	350	499	500	6499	7999	
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	117
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	196
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	74
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	64
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	104
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	165
TOT OBS	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	756
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1950-1970  
(OVER-ALL) 1910-1970

NOVEMBER

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 7  
CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH, YB, AND YSBY (NM))

CEILING (FEET)	OR		UP		VSBY (NM)		OR		OR		OR	
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0	>0	>0	>0	>0
OR >6500	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
OR >5000	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
OR >3500	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5
OR >2000	1.1	1.4	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
OR >1000	1.3	1.6	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
OR >600	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
OR >300	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
OR >150	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
OR >0	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
OR TOTAL	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4

TOTAL NUMBER OF OBS: 857

PCT FREQ NH <5/8: 98.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSC	TOTAL
	70.9	17.6	5.2	3.4	1.3	1.0	.2	.7	.0	.0	890

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TABLE 8

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

VBVY (MM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1
TOT %	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.2	.0	.0	.0	.0	.0	.1	.0	.0	.3	.3
TOT %	.0	.2	.0	.0	.0	.0	.0	.1	.0	.0	.3	.3
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.9	1.1	.5	.8	.2	.1	.0	.7	.0	.2	4.6	4.6
TOT %	.9	1.1	.5	.8	.2	.1	.0	.7	.0	.2	4.6	4.6
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	14.6	12.8	9.6	12.4	7.5	4.2	3.7	11.6	.0	18.5	95.0	95.0
TOT %	14.6	12.8	9.6	12.4	7.5	4.2	3.7	11.6	.0	18.5	95.0	95.0
TOT OBS	15.5	14.2	10.1	13.2	7.7	4.3	3.7	12.6	.0	16.7	100.0	176
TOT PCT												

PER1001 (PRIMARY) 1950-1970  
(OVER-ALL) 1910-1970

NOVEMBER

AREA 0021 S, GULF OF OMAN  
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TABLE 9  
PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NH)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2x1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1x2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2x5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5x10	0-3	.4	.3	.2	.3	.1	.1	.0	.1	.0	.2	1.6	.0
	4-10	.4	.7	.4	.2	.1	.0	.0	.6	.0	.0	2.5	.0
	11-21	.1	.3	.0	.2	.0	.0	.0	.1	.0	.0	.7	.0
	TOT %	.9	1.3	.6	.7	.2	.1	.0	.7	.0	.2	4.8	.0
10+	0-3	1.9	3.0	2.0	2.8	1.2	1.2	.9	2.6	.0	19.1	34.7	.0
	4-10	8.7	7.1	6.6	6.0	5.2	2.2	3.0	6.7	.0	47.5	67.5	.0
	11-21	3.5	2.4	.7	1.4	.9	.6	.3	2.0	.0	.0	12.0	.0
	TOT %	14.2	12.6	9.4	12.2	7.4	4.1	4.2	11.5	.0	19.1	94.7	.0
TOT OBS		15.0	14.3	10.0	12.9	7.6	4.2	4.2	12.4	.0	19.3	163.0	936

PERIOD: (PRIMARY) 1956-1970  
(OVER-ALL: 1910-1970)

NOVEMBER

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 10  
PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000	150	300	500	1000	2000	3500	5000	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL NH <5/8 OBS
0000	.0	.0	.0	.0	.0	.5	.5	.0	.0	.5	1.4	98.6
0600	.0	.0	.0	.4	.0	1.2	.4	.0	.0	.0	2.0	98.0
1200	.0	.0	.0	.4	.0	.4	.0	.0	.4	.0	1.3	98.7
1800	.0	.0	.0	.0	1.1	.5	.0	.0	.0	.0	1.6	98.4
TOT	0	0	0	2	2	6	2	0	1	1	14	873
PCT	.0	.0	.0	.2	.2	.7	.2	.0	.1	.1	1.6	98.4

TABLE 11

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
0000	.0	.0	.0	.9	2.6	96.2	212
0600	.0	.0	.0	.0	2.0	98.0	244
1200	.0	.0	.0	.0	2.3	97.7	218
1800	.0	.0	.0	.5	2.2	97.3	183
TOT	0	0	0	3	20	834	857
PCT	.0	.0	.0	.4	2.3	97.3	100.0

TABLE 12

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
0000	.0	.0	.0	.9	1.4	97.6
0600	.0	.0	.0	.4	1.6	98.0
1200	.0	.0	.0	.5	.9	98.6
1800	.0	.0	.0	.5	1.6	97.8
TOT	0	0	0	5	12	840
PCT	.0	.0	.0	.6	1.4	98.0

NOVEMBER

PERIOD (PRIMARY) 1930-1970  
(OVER-ALL) 1910-1970

AREA 0021 S. GULF OF OHAM  
23.1N 39.3E

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PC7 FREQ
90/94	.0	.0	.3	.8	.3	.0	.0	.0	10	1.4
85/89	.0	.0	.3	2.2	2.8	2.1	.7	.1	59	9.2
80/84	.0	.0	1.5	7.2	14.4	11.5	6.6	1.2	296	40.9
75/79	.0	.4	2.5	4.4	11.5	14.9	6.9	2.4	311	43.0
70/74	.0	.0	.7	1.2	1.5	1.7	.8	.4	46	6.4
65/69	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
TOTAL	.0	.7	38	115	220	219	94	30	723	100.0
PCT	.0	1.0	5.3	15.9	30.4	30.3	13.0	4.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	WV	CALM
#	.1	.4	.4	.1	.1	.2	.0	.3	.0	.1
%	1.7	6.8	6.8	.9	.7	.7	.4	1.4	.0	1.2
PC7	5.8	3.4	3.4	3.7	4.4	1.5	1.5	4.5	.0	7.3
TOTAL	6.6	5.3	4.1	6.2	2.6	1.3	.9	3.2	.0	9.4
PC7	1.2	1.1	.2	.8	.1	.3	.1	1.5	.0	1.1
TOTAL	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
PC7	112	107	64	98	56	29	22	92	0	139
TOTAL	13.3	14.8	8.9	13.8	7.8	4.0	3.1	12.8	.0	19.2

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	84	83	82	78	72	71	68	77.4	232
0600	92	88	86	81	76	73	72	81.1	273
1200	94	91	88	81	74	73	72	81.5	276
1800	85	84	82	78	74	71	71	75.0	217
TOT	94	90	86	79	74	72	68	79.6	1020

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	17.1	23.6	34.7	17.6	7.0	72	199
0600	.0	23.4	37.8	26.8	8.6	1.4	66	208
1200	.0	30.3	33.7	28.4	5.8	1.9	63	208
1800	.0	12.6	26.9	32.3	21.6	6.6	72	167
TOT	0	171	241	238	101	32	69	783

PERIOD: (PRIMARY) 1950-1970  
(OVER-ALL) 1910-1970

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AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 17

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

AIR-SEA TMP DIF	65	69	73	77	81	85	89	93	TOT	W FOG	NO FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	1
9/10	.0	.0	.0	.0	.0	.0	.1	.1	2	.0	.2
7/8	.0	.0	.0	.0	.1	.0	.9	.1	10	.0	1.2
6	.0	.0	.0	.0	.0	.8	.1	.0	8	.0	1.9
5	.0	.0	.1	.0	.8	.7	.2	.0	16	.0	1.9
4	.0	.0	.0	.0	.9	1.3	.1	.0	20	.0	2.4
3	.0	.0	.1	.4	1.7	1.1	.0	.0	27	.1	3.1
2	.0	.0	.1	.8	1.5	2.0	.0	.0	63	.0	7.5
1	.0	.0	.0	1.9	4.4	1.3	.0	.0	64	.0	7.6
0	.0	.0	.5	3.7	5.2	1.1	.0	.0	77	.0	9.1
-1	.0	.1	1.8	6.6	5.5	.6	.0	.0	123	.1	14.5
-2	.0	.0	1.8	8.5	3.2	.0	.0	.0	114	.0	13.5
-3	.0	.1	2.3	7.2	2.7	.1	.0	.0	105	.0	12.4
-4	.0	.6	3.2	6.6	.7	.0	.0	.0	192	.0	10.9
-5	.1	.2	3.4	3.2	.4	.0	.0	.0	62	.0	7.3
-6	.0	.1	1.9	1.7	.2	.0	.0	.0	29	.0	3.4
-7/-8	.0	.4	1.4	.2	.0	.0	.0	.0	23	.0	2.7
-9/-10	.0	.2	.7	.2	.0	.0	.0	.0	8	.0	.9
TOTAL	.1	1.5	14.4	24.1	25.9	6.8	1.3	.3	844	.0	84.2
PCT	.1	1.8	17.1	40.4	30.7	8.1	1.5	.4	100.0	.2	99.8

NOVEMBER  
TABLE 18  
AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

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

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

WGT	N										PCT	
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33		34-47
<1	1.9	2.7	.0	.0	.0	.0	1.7	1.7	.0	.0	.0	.0
1-2	1.0	1.1	.5	.0	.0	.0	.0	9.1	1.0	.0	.0	.0
3-4	.0	1.9	6.4	.0	.0	.0	.0	2.7	3.2	.0	.0	.0
5-6	.0	.4	.5	.0	.0	.0	.0	.8	1.0	.0	.0	.0
7	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	12.1	8.3	.4	.0	.0	1.7	14.2	5.9	.8	.0	22.6

WGT	SE										PCT	
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33		34-47
<1	.0	2.3	.0	.0	.0	.0	1.5	1.5	.0	.0	.0	.0
1-2	.8	3.6	.0	.0	.0	.0	.4	2.7	.0	.0	.0	.0
3-4	.0	.9	1.0	.0	.0	.0	.0	2.7	.5	.0	.0	.0
5-6	.0	.4	.0	.4	.0	.0	.0	.0	.5	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	7.2	1.0	.4	.0	.0	1.9	7.9	1.0	.0	.0	10.9



NOVEMBER  
 APEA 0021 S. GULF OF OMAN  
 21.1N 39.3E

TABLE 18

PERIOD: (PRIMARY)  
 (COVER=ALL) 1963-1970

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

HGT	S					SW					48+	PCT	
	1-3	4-10	11-21	22-33	34-47	1-3	4-10	11-21	22-33	34-47			
<1	.0	.5	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	1.0
1-2	.9	1.9	.0	.0	.0	.6	1.8	.5	.0	.0	.0	.0	2.9
3-4	.0	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.5
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	2.4	1.0	.0	.0	.6	3.3	.5	.0	.0	.0	.0	4.5

HGT	W					NW					48+	PCT	
	1-3	4-10	11-21	22-33	34-47	1-3	4-10	11-21	22-33	34-47			
<1	.4	1.3	.0	.0	.0	1.7	4.2	.0	.0	.0	.0	.0	6.5
1-2	.4	1.8	.0	.0	.0	3.1	5.9	.0	.0	.0	.0	.0	9.0
3-4	.0	.0	.0	.0	.0	.0	1.5	2.7	.0	.0	.0	.0	4.2
5-6	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0	1.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	3.6	.0	.0	.0	4.7	12.5	4.2	.0	.0	.0	.0	21.3

PERIOD: (PRIMARY:  
(COVER-ALL) 1967-1970

NOVEMBER

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT				
<1	28.8	11.7	.0	.0	.0	.0	40.5				
1-2	6.8	25.8	1.5	.0	.0	.0	34.1				
3-4	.4	8.0	10.6	.0	.0	.0	18.9				
5-6	.0	1.1	2.7	.4	.0	.0	4.2				
7	.0	.0	1.5	.0	.0	.0	1.5				
8-9	.0	.0	.0	.4	.0	.0	.4				
10-11	.0	.0	.0	.4	.0	.0	.4				
12	.0	.0	.0	.0	.0	.0	.0				
13-16	.0	.0	.0	.0	.0	.0	.0				
17-19	.0	.0	.0	.0	.0	.0	.0				
20-22	.0	.0	.0	.0	.0	.0	.0				
23-25	.0	.0	.0	.0	.0	.0	.0				
26-32	.0	.0	.0	.0	.0	.0	.0				
33-40	.0	.0	.0	.0	.0	.0	.0				
41-48	.0	.0	.0	.0	.0	.0	.0				
49-60	.0	.0	.0	.0	.0	.0	.0				
61-70	.0	.0	.0	.0	.0	.0	.0				
71-86	.0	.0	.0	.0	.0	.0	.0				
87+	.0	.0	.0	.0	.0	.0	.0				
TOT PCT	36.0	46.6	16.3	1.1	.0	.0	100.0	264			

TABLE 19

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

PERIOD (SEC)	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)										87+ TOTAL	MEAN HGT											
	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19			20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86			
<6	12.3	25.7	11.7	3.4	.5	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34.5	2	
6-7	.3	.0	2.3	3.2	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.6	4
8-9	.0	.5	.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
10-11	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
12-13	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDET	29.5	5.9	1.4	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	244
TOTAL	274	205	102	50	12	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	647
PCT	42.3	31.7	15.8	7.7	1.9	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

DECEMBER  
 PERIOD: (PRIMARY) 1949-1970 AREA 0021 S. GULF OF OMAN  
 (OVER-ALL) 1875-1970 23.0N 59.3E

TABLE 1  
 PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHWR	RAIN SHWR	ORZL	PRECIPITATION TYPE			HAIL	PLT	FREQ	TOTAL	THOR	OTHER WEATHER PHENOMENA					TOTAL				
				FRZG	SNOW	OTHER						DU.T	NO	NO	NO	SIG		WEA	OBS		
				PCPN	PCPN	PCPN		PCPN	AT	OBS	LTNC	WD	BLWG	HAZE	SMOKE	PCPN	NO	SIG	WEA	OBS	
N	.1	.0	.0	.0	.0	.0	.1	.2	2	2	.1	.0	.0	.1	.1	.0	.0	.0	.0	17.0	129
NE	.0	.0	.0	.0	.0	.0	.0	.0	0	0	.1	.0	.0	.0	.0	.0	.0	.0	.0	11.1	121
E	.0	.0	.1	.0	.0	.0	.0	.1	1	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.0	66
SE	.0	.0	.0	.0	.0	.0	.0	.0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.6	93
S	.0	.0	.0	.0	.0	.0	.0	.0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1	40
SW	.0	.0	.0	.0	.0	.0	.0	.0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	27
W	.1	.0	.0	.0	.0	.0	.0	.1	1	1	.1	.0	.0	.0	.0	.0	.0	.0	.0	4.3	35
WNW	.1	.0	.0	.0	.0	.0	.0	.1	1	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	16.4	133
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17.7	144
CALM	.0	.0	.0	.0	.0	.0	.0	.0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17.7	144
TOT OBS	3	0	1	0	0	0	1	0	5	5	2	0	0	2	5	0	1	0	0	178.9	301
TOT PCT	.4	.0	.1	.0	.0	.0	.1	.6			.2	.0	.0	.6	.6	.0	.1	.0	.0	98.5	100.0

TABLE 2  
 PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GHT)	RAIN SHWR	RAIN SHWR	ORZL	PRECIPITATION TYPE			HAIL	PCT	FREQ	TOTAL	THOR	OTHER WEATHER PHENOMENA					TOTAL				
				FRZG	SNOW	OTHER						DU.T	NO	NO	NO	SIG		WEA	OBS		
				PCPN	PCPN	PCPN		PCPN	AT	OBS	LTNC	WD	BLWG	HAZE	SMOKE	PCPN	NO	SIG	WEA	OBS	
0000Z	.0	.0	.0	.0	.0	.0	.0	.0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	213
0600Z	.0	.0	.0	.0	.0	.0	.0	.0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	99.5	216
1200Z	.4	.0	.0	.0	.0	.0	.4	.9	2	2	.4	.0	.0	.9	.9	.0	.4	.0	.0	97.8	226
1800Z	.0	.0	.5	.0	.0	.0	.0	1.5	3	3	.5	.0	.0	1.0	1.0	.0	.0	.0	.0	97.1	205
TOT	3	0	1	0	0	0	1	6	5	5	2	0	0	5	5	0	1	0	0	848	860
PCT	.3	.0	.1	.0	.0	.0	.1	.6			.2	.0	.0	.6	.6	.0	.1	.0	.0	98.6	100.0

DECEMBER

PERIOD: (PRIMARY) 1969-1970  
(OVER-ALL) 1973-1970

AREA 0021 S. GULF OF OMAN  
23.ON 59.3E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)							
	0-3	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	9.7	4.9	.5	.0	.0	157	17.4	8.9	13.6	17.9	16.7	16.9	23.4	15.4	15.7	19.6	
NE	2.5	10.2	2.9	.0	.0	.0	140	15.5	7.4	13.0	21.4	13.6	4.8	18.8	23.1	16.9	15.2	
E	1.6	6.0	.6	.1	.0	.0	74	8.3	6.3	5.0	17.9	7.4	6.5	10.4	12.5	9.1	8.7	
SE	2.1	7.5	2.1	.1	.0	.0	103	11.5	7.4	7.2	.0	13.4	17.7	14.2	7.7	11.9	8.7	
S	1.1	3.3	.7	.0	.0	.0	45	5.1	6.3	7.9	.0	4.5	8.1	3.1	1.9	4.6	8.7	
SW	1.0	2.0	.2	.1	.0	.0	30	3.4	6.8	3.9	10.7	5.7	1.6	1.4	2.8	2.7	.0	
W	.8	2.9	.7	.2	.0	.0	41	4.6	7.8	5.0	17.9	4.3	14.5	2.1	7.7	4.1	6.5	
NW	1.6	10.3	4.1	.5	.1	.0	150	16.6	8.9	17.5	7.1	20.7	23.4	15.7	11.5	13.0	15.2	
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALC	17.6	467	146	12	1	0	159	17.6	6.4	26.8	7.1	13.6	6.5	11.1	15.4	22.2	17.4	
TOT OBS	277	51.7	16.2	1.3	.1	.0	903	100.0		209	14	198	31	217	26	185	100.0	
TOT PCT	30.7	51.7	16.2	1.3	.1	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)						
	0-6	7-16	17-17	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD		00	03	06	09	12	15	18	21
N	7.3	8.6	1.6	.0	.0	157	17.4	8.9	13.9	13.9	16.7	22.5	16.1				
NE	8.2	6.8	.5	.0	.0	140	15.5	7.4	13.6	13.6	12.4	19.2	16.7				
E	5.4	2.6	.2	.0	.0	74	8.3	6.3	5.8	5.8	7.3	10.7	9.0				
SE	5.6	5.7	.1	.0	.0	103	11.5	7.4	6.7	6.7	14.0	13.5	11.5				
S	3.3	1.7	.1	.0	.0	45	5.1	6.3	7.4	7.4	5.0	3.0	5.0				
SW	2.0	1.2	.1	.1	.0	30	3.4	6.8	4.4	4.4	5.1	1.6	2.4				
W	2.3	2.0	.3	.0	.0	41	4.6	7.8	3.8	3.8	5.7	2.7	4.3				
NW	6.9	8.5	1.1	.1	.0	150	16.6	8.9	16.8	16.8	21.1	15.2	13.2				
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0				
CALC	17.6	336	36	2	0	159	17.6	6.4	25.6	25.6	12.7	11.5	21.6				
TOT OBS	529	37.2	4.0	.2	.0	903	100.0		223	223	229	243	268				
TOT PCT	58.6	37.2	4.0	.2	.0	100.0			100.0	100.0	100.0	100.0	100.0				

PERIODS (PRIMARY) 1949-1970  
(OVER-ALL) 1875-1970

DECEMBER

AREA 0021 S. GULF OF OMAN  
13.0N 59.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CA.M	WIND SPEED (KNOTS)						TOTAL OBS		
		1-3	4-10	11-21	22-33	34-47	48+			
0603	25.6	11.7	48.9	12.6	.7	.4	.0	5.8	100.0	223
0609	12.7	14.4	56.8	14.8	1.3	.0	.0	6.6	100.0	229
1215	11.5	12.8	52.3	22.6	.8	.0	.0	7.3	100.0	243
1821	21.6	13.5	48.6	13.9	2.4	.0	.0	6.0	100.0	208
TOT	13.9	11.8	46.7	14.6	1.2	1	0	6.4		903
PC	17.6	13.1	51.7	16.2	1.3	.1	.0		100.0	

TABLE 5

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

WIND DIR	PCT FREQ								TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBSCD	9	10	11	12		
N	13.3	1.7	2.1	.1	124	1.5	.0	.0	149	1.4
NE	12.4	2.0	1.6	.1	117	1.4	.0	.0	150	1.4
E	5.3	1.2	.9	.5	57	2.1	.0	.0	150	1.5
SE	9.2	1.7	1.0	.2	87	1.5	.0	.0	150	1.6
S	3.2	.6	.5	.0	31	1.6	.0	.0	150	.8
SW	3.2	.4	*	.0	28	1.9	.0	.0	150	1.7
W	2.7	.4	.3	.3	27	1.7	.0	.0	150	1.7
NH	11.2	3.3	1.8	.4	121	1.7	.0	.0	150	1.4
VAR	.0	.0	.0	.0	0	.0	.0	.0	150	1.4
CALM	17.0	.5	.4	.1	132	.5	.0	.0	150	1.4
TOT OBS	755	80	62	15	728	1.4	.0	.0	150	1.4
TOT PCT	77.6	12.1	8.5	1.8	100.0				100.0	

TABLE 6

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

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 4/8)										TOTAL OBS
	000	150	300	600	1000	2000	3500	5000	8000+	NH < 5/8	
N	.0	.0	.0	.4	.0	.0	.1	.0	.0	.0	124
NE	.0	.0	.0	.1	.1	.5	.1	.0	.0	.0	117
E	.0	.0	.1	.0	.0	.3	.1	.0	.0	.0	57
SE	.0	.0	.0	.0	.0	.1	.1	.0	.1	.0	87
S	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	31
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28
W	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	27
NH	.0	.0	.0	.0	.1	.3	.4	.0	.0	.0	121
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	132
TOT OBS	149	299	599	999	1999	3499	4999	6499	7999	9600	728
TOT PCT	.0	.0	.1	.7	.4	1.9	.7	.0	.1	.0	100.0

PERIOD (PRIMARY) 1949-1970  
 (OVER-ALL) 1875-1970

DECEMBER

AREA 0021 5, GULF OF OMAN  
 23,0N 59.3E

TABLE 7  
 CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
 OF CEILING HEIGHT (NH >4/8) AND V5BY (NH)

CEILING (FEET)	V5BY (NH)					CR
	>10	>5	>2	>1	>1/2	
OR >6500	.1	.1	.1	.1	.1	.1
OR >5000	.3	.3	.3	.3	.3	.3
OR >3500	.9	1.0	1.0	1.0	1.0	1.0
OR >2000	2.4	2.7	2.8	2.8	2.8	2.8
OR >1000	3.1	3.1	3.2	3.2	3.2	3.2
OR >600	3.2	3.7	3.9	3.9	3.9	3.9
OR >300	3.2	3.9	4.0	4.0	4.0	4.0
OR >150	3.2	3.9	4.0	4.0	4.0	4.0
OR > 0	3.2	3.9	4.0	4.0	4.0	4.0
TOTAL	25	30	31	31	31	31

TOTAL NUMBER OF OBSI 777 PCT FREQ NH <5/81 96.0

TABLE 7A  
 PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	Obscd	TOTAL
57.5	17.2	11.7	5.9	2.5	1.1	1.2	1.5	.4	.0	.0	818

PERIOD (PRIMARY) 1949-1970  
(OVER-ALL) 1875-1970

DECEMBER

AREA 0021 S. GULF OF OMAN  
25.0N 59.3E

TABLE 8

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

VSBL (MM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1
TOT %	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.2	.1	.0	.1	.0	.0	.1	.1	.0	.0	.6	.6
TOT %	.2	.1	.0	.1	.0	.0	.1	.1	.0	.0	.6	.6
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.7	.4	.6	1.0	.4	.5	.2	.9	.0	1.1	5.9	5.9
TOT %	.7	.4	.6	1.0	.4	.5	.2	.9	.0	1.1	5.9	5.9
PCP	.2	.0	.1	.0	.0	.0	.1	.1	.0	.0	.6	.6
NO PCP	16.3	14.6	7.6	10.5	4.7	2.9	4.0	15.4	.0	16.9	92.8	92.8
TOT %	16.5	14.6	7.7	10.5	4.7	2.9	4.1	15.5	.0	16.9	93.4	93.4
TOT OBS	17.4	15.2	8.3	11.6	5.1	3.4	4.4	16.6	.0	18.0	100.0	101
TOT PCT	17.4	15.2	8.3	11.6	5.1	3.4	4.4	16.6	.0	18.0	100.0	101

PERIOD: (PRIMARY) 1949-1970  
(COVER-ALL) 1875-1970

DECEMBER

AREA 0021 S. GULF OF OMAN  
23.ON 59.3E

TABLE 9

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

VSBY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT TOTAL OBS
<1/2	0-3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.2	.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	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	0-3	.2	.0	.3	.3	.1	.1	.0	.1	.0	1.2	2.3
	4-10	.3	.0	.2	.7	.2	.1	.1	.2	.0	.0	2.3
	11-21	.1	.0	.0	.3	.2	.1	.1	.4	.0	.0	1.2
	TOT %	.7	.0	.6	1.3	.5	.5	.2	.8	.0	1.2	6.1
10+	0-3	2.0	2.7	1.3	1.9	1.0	.9	.6	1.4	.0	16.8	28.6
	4-10	9.0	9.2	5.7	6.8	3.3	2.0	2.8	9.9	.0	48.7	48.7
	11-21	4.8	2.0	.5	1.9	.6	.1	.6	3.6	.0	.0	15.0
	TOT %	16.2	14.7	7.5	10.7	4.9	3.1	4.2	15.2	.0	16.8	93.2
TOT OBS											858	
TOT PCT		17.1	8.0	12.0	5.3	3.6	4.5	16.3	.0	17.9	100.0	



DECEMBER

PERIOD (PRIMARY) 1969-1970  
(OVER-ALL) 1875-1970

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TABLE 10  
PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
0000	.0	.0	.0	.0	1.0	2.0	1.0	.0	.0	.0	4.0	96.0	202
0600	.0	.0	.0	1.4	.0	2.9	.0	.5	.0	.0	4.8	95.2	210
1200	.0	.0	.0	.5	.5	.9	.9	.0	.5	.0	3.3	96.7	213
1800	.0	.0	.5	.5	.0	1.1	1.1	.0	.0	.0	3.2	96.8	190
TOT	.0	.0	.1	.5	.3	1.4	.6	1.1	.1	.0	3.1	78.4	815
PCT	.0	.0	.1	.6	.4	1.7	.7	.1	.1	.0	3.8	96.2	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	.5	.0	.0	.5	4.1	94.8	193
0600	.0	.0	.0	.5	2.9	96.6	204
1200	.0	.0	.0	1.0	4.1	94.9	197
1800	.0	.0	.0	.0	5.5	94.5	183
TOT	.1	.0	.0	.4	3.2	74.0	777
PCT	.1	.0	.0	.5	4.1	95.2	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	<600	<1000	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
0000	.0	.5	1.0	4.1	94.8	193
0600	.0	.0	2.0	2.9	95.1	204
1200	.0	.0	1.5	3.0	95.4	197
1800	.0	.5	1.1	2.2	95.7	183
TOT	0	2	11	24	74.2	777
PCT	.0	.3	1.4	3.1	95.5	100.0

DECEMBER

PERIOD: (PRIMARY) 1949-1970  
(OVER-ALL) 1875-1970

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY 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	.0	.0	.2	.0	.0	.0	2	.3
85/89	.0	.0	.2	.3	.6	.2	.0	.0	8	1.3
80/84	.0	.0	.5	1.4	2.5	2.0	.3	.8	48	7.5
75/79	.0	.5	2.8	7.1	12.6	14.6	6.8	1.7	293	46.0
70/74	.0	.3	1.6	7.4	12.7	10.6	5.7	1.6	250	39.2
65/69	.0	.0	.2	1.4	.8	1.3	1.7	.2	35	5.5
60/64	.0	.0	.0	.0	.2	.0	.0	.0	1	.2
TOTAL	.0	.6	3.9	11.2	18.8	17.9	9.2	2.7	637	100.0
PCT	.0	.9	5.2	17.6	29.5	28.1	14.4	4.2		

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TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2
85/89	.3	.2	.2	.2	.3	.0	.0	.0	.0	.0
80/84	1.3	1.2	.9	1.5	.3	.4	.3	1.2	.0	.9
75/79	8.9	6.2	3.3	6.0	2.5	2.4	1.6	8.0	.0	7.1
70/74	4.0	6.4	3.6	4.2	2.1	1.6	2.4	5.7	.0	9.2
65/69	.5	1.4	.5	.3	.0	.2	.0	2.0	.0	.6
60/64	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0
TOTAL	95	97	54	79	32	27	27	108	0	119
PCT	15.0	15.3	8.6	12.4	5.1	4.2	4.2	17.0	.0	18.1

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	81	79	77	73	68	64	63	72.9	235
0600	94	87	82	76	71	68	66	76.3	239
1200	92	90	85	77	70	67	66	75.7	232
1800	82	80	78	74	68	64	64	73.6	222
TOT	94	87	81	75	69	66	63	74.9	948

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	13.3	24.1	21.3	20.5	20.5	4.8	72	166	
0600	.0	30.6	31.2	22.0	11.6	4.6	66	178		
1200	.0	30.6	28.9	23.9	12.2	4.4	67	180		
1800	.0	1.9	31.9	31.3	15.1	1.8	59	166		
TOT	0	163	199	195	101	27	68	685		

PERIOD: (PRIMARY) 1949-1970  
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TABLE 17

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

AIR-SEA TMP DIF	61	65	69	73	77	81	85	89	93	TOT	W FOG	MO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
9/10	.0	.0	.0	.0	.0	.0	.4	.4	.0	6	.0	.8
7/8	.0	.0	.0	.0	.1	.3	.4	.0	.0	6	.0	.8
6	.0	.0	.0	.0	.0	.3	.3	.0	.0	4	.0	.4
5	.0	.0	.0	.0	.1	.1	.1	.0	.0	3	.0	.4
4	.0	.0	.0	.1	.9	.5	.0	.0	.0	12	.0	1.6
3	.0	.0	.0	.0	1.3	1.2	.0	.0	.0	19	.0	2.5
2	.0	.0	.0	.3	2.0	.9	.0	.0	.0	24	.0	3.1
1	.0	.0	.0	1.3	2.5	.7	.0	.0	.0	34	.0	4.4
0	.0	.0	.7	3.9	4.7	.5	.0	.0	.0	70	.0	9.8
-1	.0	.0	.9	5.3	4.6	.3	.0	.0	.0	83	.0	11.1
-2	.0	.1	1.8	6.3	3.1	.1	.0	.0	.0	104	.0	13.5
-3	.0	.0	2.9	7.8	1.7	.0	.0	.0	.0	95	.0	12.4
-4	.0	.8	3.3	7.3	1.2	.0	.0	.0	.0	96	.0	12.5
-5	.0	.4	4.3	5.1	.7	.0	.0	.0	.0	80	.0	10.4
-6	.0	.3	2.1	3.1	.5	.0	.0	.0	.0	46	.0	6.0
-7/-8	.0	1.4	3.5	2.6	.1	.0	.0	.0	.0	59	.0	7.1
-9/-10	.1	.7	.9	.1	.0	.0	.0	.0	.0	14	.0	1.8
-11/-13	.1	.3	.1	.0	.0	.0	.0	.0	.0	4	.0	.5
-14/-16	.0	.1	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2	31	157	348	180	37	9	3	1	748	.0	74.8
PCT	.3	4.0	20.4	45.3	23.4	4.8	1.2	.4	.1	100.0	.0	100.0

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

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TABLE 18

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

HGT	N										TOT PCT			
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21		22-33	34-47	48+
<1	2.5	2.0	.5	.0	.0	.0	5.1	1.3	1.3	.0	.0	.0	.0	2.6
1-2	.0	5.8	.9	.0	.0	.0	6.7	.6	3.1	.6	.0	.0	.0	6.3
3-4	.0	2.6	3.5	.0	.0	.0	6.1	.0	4.5	2.3	.0	.0	.0	6.9
5-6	.0	1.8	1.0	.0	.0	.0	2.8	.0	.0	1.3	.0	.0	.0	1.3
7	.0	.0	1.0	.0	.0	.0	1.0	.0	.0	.7	.0	.0	.0	.7
8-9	.0	.0	.0	1.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.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
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.5	12.3	7.0	1.0	.0	.0	22.8	1.9	11.0	5.6	.0	.0	.0	18.4

HGT	E										TOT PCT			
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21		22-33	34-47	48+
<1	1.3	1.8	.0	.0	.0	.0	2.3	.6	1.3	1.2	.0	.0	.0	3.1
1-2	.6	3.4	.0	.0	.0	.0	3.9	1.3	6.0	.9	.0	.0	.0	7.3
3-4	.0	1.0	1.0	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	1.5
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	6.1	1.0	.0	.0	.0	8.3	1.9	7.9	2.0	.0	.0	.0	11.3

PER 001 (PRIMARY)  
(OVER-ALL) 1963-1970

DECEMBER  
TABLE 18

AREA 0021 S. GULF OF DHAN  
23 ON 59.1E

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

HGT	SM										48+	PCT	
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33			34-47
<1	.0	1.0	.0	.0	.0	.0	1.9	.0	.6	.0	.0	.0	.9
1-2	.4	3.1	.4	.0	.0	.0	3.9	.0	1.5	.0	.0	.0	2.8
3-4	.0	.4	.4	.0	.0	.0	.9	.0	.1	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	4.5	.9	.0	.0	.0	6.7	.0	2.2	1.7	.6	.0	4.4

HGT	NM										48+	PCT	
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33			34-47
<1	.0	1.8	.0	.0	.0	.0	1.9	.0	5.4	.0	.0	.0	6.3
1-2	.0	1.8	.0	.0	.0	.0	1.8	.0	3.2	.0	.0	.0	5.3
3-4	.0	.6	.0	.0	.0	.0	1.2	.0	2.9	3.5	.0	.0	7.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	1.2	1.8	.0	.0	3.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.1	.6	.0	.0	.0	4.7	.0	12.7	7.3	1.3	.0	22.8

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

DECEMBER

AREA 0021 S. GULF OF OMAN  
23.0N 59.3E

TABLE 18 (CONT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DSS
<1	29.7	12.2	1.3	.0	.0	.0	53.2	
1-2	2.6	22.3	3.5	.0	.0	.0	28.7	
3-4	.4	29.6	9.7	.0	.0	.0	14.2	
5-6	.0	2.2	3.1	.4	.0	.0	5.7	
7	.0	.0	1.3	.4	.0	.0	1.7	
8-9	.0	.0	.0	.9	.0	.0	.9	
10-11	.0	.0	.4	.4	.0	.0	.9	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	229

TABLE 19  
PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+ TOTAL	MEAN HGT	
<1	10.3	24.2	15.6	3.8	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	329
6-7	.2	.8	2.5	2.8	1.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	48
8-9	.0	.2	.5	.0	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7
10-11	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
12-13	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
>13	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
INDET	28.6	4.6	1.7	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	215
TOTAL	236	180	125	44	12	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	604
PCT	59.1	29.8	20.7	7.3	2.0	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

ANNUAL  
 PERIOD: (PRIMARY) 1969-1971 1965-1971  
 (COVER-ALL) 1865-1971  
 AREA: 0021 S. GULF OF OMAN  
 23.1N 59.3E

TABLE 1  
 PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHHR	ORZL	PRECIPITATION TYPE				HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG PCPN	SNOW	OTHER	FRZN PCPN					FOG	SMOKE	HAZE	BLWG	
N	.1	*	*	.0	.0	.0	.0	*	.1	9	*	*	.6	.1	8.6	933
NE	*	.0	*	.0	.0	.0	.0	.0	*	6	*	.6	.1	.1	6.2	688
E	*	.0	*	.0	.0	.0	.0	.0	*	2	*	.8	.1	.1	7.4	846
SE	*	.0	*	.0	.0	.0	.0	.0	*	2	*	1.3	.2	.2	15.1	1097
S	*	.0	.1	.0	.0	.0	.0	.0	.1	7	.1	2.0	.2	.2	14.9	1764
SW	*	.0	*	.0	.0	.0	.0	.0	*	3	.1	2.5	.3	.3	9.8	1202
W	*	.0	*	.0	.0	.0	.0	.0	*	3	*	.2	.1	.1	5.0	548
NW	*	.0	*	.0	.0	.0	.0	.0	.1	5	*	.4	.3	.3	11.0	1197
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	*	1	.0	.7	.1	.1	11.0	1202
TOT OBS	21	5	12	0	0	0	0	1	*	38	.0	78	797	172	8940	10060
TOT PCT	.2	.1	.1	.0	.0	.0	.0	*	.4		.7	.8	7.8	1.7	89.0	100.0

TABLE 2  
 PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHHR	ORZL	PRECIPITATION TYPE				HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG PCPN	SNOW	OTHER	FRZN PCPN					FOG	SMOKE	HAZE	BLWG	
0000	.1	.1	.1	.0	.0	.0	.0	.0	.3	7	.7	.9	7.1	1.3	89.9	2690
0600	.1	*	*	.0	.0	.0	.0	.0	.2	5	.0	.9	8.4	1.7	88.9	2760
1200	.4	*	.1	.0	.0	.0	.0	*	.5	15	.2	.6	9.1	2.5	87.1	2781
1800	.2	*	.2	.0	.0	.0	.0	.0	.4	11	.7	.6	6.0	1.2	91.0	2512
TOT	21	5	12	0	0	0	0	1	.4	33	.4	.8	82.4	1.7	95.4	10693
PCT	.2	.1	.1	.0	.0	.0	.0	*	.4		.4	.8	7.7	1.7	89.2	100.0

ANNUAL

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

PERIOD: (PRIMARY) 1949-1971  
(OVER-ALL) 1965-1971

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										WIND DIRECTION BY SPEED AND BY HOUR						
	0-3	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	5.4	2.0	.2	.0	*	1032	9.2	7.3	7.3	8.7	9.0	9.9	12.5	7.0	8.1	8.8
NE	1.4	4.6	.9	*	.0	0	781	7.0	6.8	5.2	7.1	6.3	8.0	9.9	9.7	5.9	6.8
E	1.5	6.0	.9	*	.0	0	959	8.5	6.6	5.1	10.4	7.4	10.1	12.8	12.3	7.0	6.9
SE	2.4	10.9	3.4	.1	.0	0	1883	16.8	7.7	13.6	12.5	15.0	13.3	18.6	20.2	18.4	15.2
S	1.7	3.5	6.3	.7	.0	0	1936	17.3	9.5	18.2	15.1	17.3	17.2	14.0	15.8	19.4	18.7
SW	.9	5.6	4.7	.7	.0	0	1342	12.0	9.8	14.8	15.8	13.4	12.4	7.4	10.4	2.0	15.3
W	1.0	3.2	1.1	.1	.0	0	615	5.5	8.2	5.6	10.2	6.6	7.2	3.2	5.5	5.6	9.2
NW	1.7	6.5	3.2	.4	.0	0	1331	11.9	8.2	10.5	12.1	13.8	15.5	12.7	10.4	10.1	10.4
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALC	11.8	5.87	25.9	2.6	6	1	1319	11.8	7.8	15.2	8.1	11.2	6.4	8.0	8.7	13.3	8.3
TOT OBS	2703	50.8	22.6	2.3	.1	*	11202	100.0	7.8	25.6	1.9	23.4	3.5	26.8	25.8	23.8	22.2
TOT PCT	24.1	50.8	22.6	2.3	.1	*	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										WIND DIRECTION BY SPEED AND BY HOUR					
	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	4.1	.5	.1	*	1032	9.2	7.3	7.4	7.4	9.0	9.0	12.1	8.2	8.2	8.2
NE	3.8	3.0	.2	.0	.0	781	7.0	6.8	5.3	5.3	6.3	6.5	9.9	6.0	6.0	6.0
E	5.0	3.4	.2	.0	.0	959	8.5	6.6	6.4	6.4	7.7	7.7	12.7	7.0	7.0	7.0
SE	7.5	8.6	.5	*	.0	1883	16.8	7.7	15.6	15.6	14.8	16.7	18.1	18.1	18.1	18.1
S	5.2	9.2	2.3	.1	.0	1936	17.3	9.5	18.0	18.0	17.3	14.9	19.3	19.3	19.3	19.3
SW	3.3	6.2	2.3	.1	*	1342	12.0	9.8	14.9	14.9	13.4	7.7	12.2	12.2	12.2	12.2
W	2.5	2.6	.1	.0	.0	615	5.5	8.2	6.1	6.1	6.7	3.4	6.0	6.0	6.0	6.0
NW	4.9	5.8	1.1	.1	.0	1331	11.9	8.2	10.5	10.5	14.0	12.6	10.2	10.2	10.2	10.2
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALC	11.8	4.79	92.1	45	2	1319	11.8	7.8	15.7	1.9	11.2	8.0	8.0	8.0	12.9	8.3
TOT OBS	2434	42.9	8.2	4.5	*	11202	100.0	7.8	27.95	2.61	23.4	3.5	26.8	25.8	23.8	22.2
TOT PCT	48.5	42.9	8.2	4.5	*	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0



HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+				
0000	15.7	11.0	47.7	22.9	2.5	.2	.0	7.8	100.0	2795	
0600	10.7	13.3	51.5	22.2	2.3	.0	.0	7.7	100.0	2361	
1200	8.0	13.0	53.8	22.9	2.2	.0	.0	8.0	100.0	2956	
1800	12.9	12.1	50.2	22.5	2.3	.0	.0	7.7	100.0	2590	
TOT	1319	1384	5687	2539	266	6	1	7.6		11202	
PCT	11.8	12.3	50.0	22.6	2.3	.1	.0		100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & UBSCD	TOTAL OBS	MEAN CLOUD COVER
N	7.3	.8	.8	.3	830	1.2
NE	5.2	.7	.7	.1	611	1.5
E	6.0	1.0	.9	.3	732	1.6
SE	13.2	1.9	1.5	.6	1533	1.4
S	13.7	1.4	1.2	.8	1551	1.3
SW	9.0	.9	1.1	.7	1048	1.3
W	4.5	.3	.3	.2	483	1.2
NW	9.5	1.2	.9	.4	1091	1.2
VAR	.0	.0	.0	.0	0	.0
CALM	11.1	.6	.5	.2	1122	.7
TOT OBS	7179	785	728	313	9005	1.3
TOT PCT	79.4	8.8	8.2	3.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH 24/8) AND OCCURRENCE OF NH 25/8 BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & UBSCD	TOTAL OBS	MEAN CLOUD COVER
N	7.3	.8	.8	.3	830	1.2
NE	5.2	.7	.7	.1	611	1.5
E	6.0	1.0	.9	.3	732	1.6
SE	13.2	1.9	1.5	.6	1533	1.4
S	13.7	1.4	1.2	.8	1551	1.3
SW	9.0	.9	1.1	.7	1048	1.3
W	4.5	.3	.3	.2	483	1.2
NW	9.5	1.2	.9	.4	1091	1.2
VAR	.0	.0	.0	.0	0	.0
CALM	11.1	.6	.5	.2	1122	.7
TOT OBS	7179	785	728	313	9005	1.3
TOT PCT	79.4	8.8	8.2	3.5	100.0	

PERIOD: (PRIMARY) 1949-1971  
(OVER-ALL) 1805-1971

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TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH > 478) AND VSBY (NH)

CEILING (FEET)	OR		OR		OR		OR		OR		CR
	>10	>5	>2	>1	>1/2	>1/4	>50VD	>0			
OR >5000	.3	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6
OR >5000	.5	.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
OR >2500	1.1	1.8	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0
OR >2000	2.1	3.2	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
OR >1000	2.9	4.5	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
OR >600	3.3	5.2	5.6	5.6	5.7	5.7	5.7	5.7	5.7	5.7	5.7
OR >300	3.4	5.5	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
OR >150	3.4	5.5	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
OR > 0	3.4	5.6	6.1	6.1	6.2	6.2	6.2	6.2	6.2	6.2	6.2
TOTAL	322	524	567	571	574	575	575	575	575	575	575

TOTAL NUMBER OF OBS: 9549

PCT FREQ NH <5781 94.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL
68.5	12.4	6.2	3.9	3.9	2.4	1.5	1.5	1.5	1.5	9977
										0.1

PERIOD: (PRIMARY) 1949-1971  
(COVER-ALL) 1865-1971

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AREA 0021 S. GULF OF OMAN  
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TABLE 8

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

VSBY (MM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	*	.0	*	*	*	*	*	.0	.0	.1	.1
	.0	*	.0	*	*	*	*	*	.0	.0	.1	.1
1/2<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
1<2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.1	.1	.1	.1	*	*	*	.0	.0	.5	.5
	.1	*	.1	.1	.1	*	*	*	.0	.0	.5	.5
2<5	.0	.0	.0	*	*	*	*	*	.0	.0	.1	.1
	.1	.1	.3	.5	.6	.7	.1	.2	.0	.0	.1	2.6
	.1	.1	.3	.5	.6	.7	.1	.2	.0	.0	.1	2.7
5<10	.0	.0	.0	*	*	*	*	*	.0	.0	.0	.0
	1.1	1.1	1.7	3.1	4.5	3.5	.8	1.6	.0	1.5	18.7	18.7
	1.1	1.1	1.7	3.1	4.5	3.3	.8	1.6	.0	1.5	18.9	18.9
10+	.0	.0	.0	*	*	*	*	*	.0	.0	.0	.0
	7.9	5.5	6.4	13.1	12.1	7.8	4.5	10.0	.0	10.3	77.6	77.6
	8.0	5.5	6.4	13.2	12.1	7.8	4.5	10.0	.0	10.3	77.8	77.8
TOT OBS	9.3	6.8	8.4	16.9	17.4	11.9	5.4	11.9	.0	11.9	100.0	100.0
TOT PCT												100.0

PERIOD: (PRIMARY) 1949-1971  
(OVER-ALL) 1965-1971

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AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 9

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

VISIB	SPO	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL
(%)	KTS												OBS
<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	*	*
	TOT %	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.1	.1
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	*	.0	.0	.0	*	*	.0	*	.0	.0	*	*
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
1<2	0-3	.0	.0	*	*	.0	.0	*	*	.0	*	*	.1
	4-10	*	.1	.1	.1	*	*	.0	*	.0	*	*	.3
	11-21	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5
2<5	0-3	*	.1	.3	.1	*	*	*	*	.0	.1	*	.3
	4-10	.1	.1	.3	.3	.2	.2	*	.1	.0	.0	*	1.3
	11-21	*	.1	.1	.4	.4	.4	*	.1	.0	.0	*	1.1
	TOT %	.1	.1	.3	.5	.7	.8	.1	.2	.0	.0	.1	2.9
5<10	0-3	.2	.1	.3	.4	.3	.1	.2	.2	.0	1.5	*	3.4
	4-10	.6	.9	1.1	2.0	1.8	1.2	.4	.9	.0	.0	*	8.9
	11-21	.2	.1	.3	.8	2.0	1.6	.2	.4	.0	.0	*	5.7
	TOT %	1.1	1.2	1.7	3.2	4.4	3.3	.8	1.6	.0	1.5	18.9	18.9
10+	0-3	1.4	1.2	1.2	1.9	1.4	.8	.8	1.5	.0	10.1	*	20.3
	4-10	4.6	3.5	4.6	8.0	6.5	4.2	2.7	5.5	.0	.0	*	40.4
	11-21	1.7	.8	.6	2.5	3.9	2.5	.9	2.6	.0	.0	*	15.6
	TOT %	7.9	5.6	6.4	13.0	12.1	7.8	4.6	9.9	.0	10.1	77.5	77.5
TOT OBS													10885
TOT PCT		9.2	6.9	8.5	16.9	17.4	12.0	5.5	11.8	.0	11.4	100.0	

PERIOD: (PRIMARY) 1949-1971  
(OVER-ALL) 1855-1971

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AREA 0021 S. GULF OF OMAN  
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) IN 500' AND  
OCCURRENCE OF NH <578 BY HOUR

HOUR (GMT)	000		100		200		300		400		500		6500+		TOTAL		NH <3/8		TOTAL	
	149	149	599	599	1999	1999	4999	4999	6499	6499	7999	7999	8500+	8500+	ANY HGT	ANY HGT	OBS	OBS	OBS	OBS
00003	.1	.0	.4	.7	1.4	1.5	1.3	.4	.4	.1	.4	6.2	93.8	2438						
06009	.2	.0	.4	1.1	1.6	1.6	.7	.3	.2	.4	6.5	93.5	2597							
12015	.2	.0	.2	.7	.8	1.1	.8	.5	.4	.6	5.4	94.6	2330							
18021	.2	*	.2	.8	1.6	1.6	.9	.2	.1	.2	5.7	94.3	2339							
TOT	15	1	31	80	130	139	87	36	21	39	579	8325	9904							
PCT	.2	*	.3	.8	1.3	1.4	.9	.4	.2	.4	4.0	94.0	100.0							

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2		1/2<1		1<2		2<5		5<10		10+		TOTAL	
	00003	06009	12015	18021	00003	06009	12015	18021	00003	06009	12015	18021	TOT	PCT
00003	.2	*	.2	2.5	16.5	80.6	2337							
06009	.1	.0	.1	2.6	17.7	79.5	2516							
12015	*	*	.4	3.0	17.6	78.9	2429							
18021	.0	*	.1	2.5	17.1	80.2	2268							
TOT	8	3	18	245	1612	7664	9350							
PCT	.1	*	.2	2.6	17.2	79.8	100.0							

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR  
CEILING HGT (FEET) IN 500' BY HOUR

HOUR (GMT)	<150		<500		<1000		1000+		NH <5/8		TOTAL	
	00003	06009	12015	18021	00003	06009	12015	18021	AND 3+	AND 3+	AND 3+	OBS
00003	.1	.7	3.6	4.9	91.3	2337						
06009	.2	.7	4.2	4.8	91.0	2516						
12015	.3	.6	4.3	4.1	91.5	2429						
18021	.2	.5	3.7	4.4	91.9	2268						
TOT	16	56	374	424	8752	9350						
PCT	.2	.6	4.0	4.5	91.4	100.0						

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PERIOD: (PRIMARY) 1949-1971  
(OVER-ALL) 1865-1971

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY 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	.1	.1	.1	.3	.5	43	.5
90/94	.0	.0	.2	.8	1.9	2.9	1.4	7.6	611	7.6
85/89	.0	.0	.2	.9	2.5	6.0	1.2	18.7	1519	18.7
80/84	.0	.1	.3	1.3	4.1	6.4	9.7	24.9	2195	24.9
75/79	.0	.1	.7	2.0	4.2	6.7	7.0	25.8	2079	25.8
70/74	.0	.4	1.8	4.5	4.7	3.5	2.6	17.6	1417	17.6
65/69	.0	.0	.1	.5	.7	.5	.6	2.8	424	2.8
60/64	.0	.0	.0	.0	.1	.0	.0	.1	8	.1
TOTAL	.0	.0	1.6	6.2	14.77	22.32	23.69	1221	8092	100.0
PCT	.0	.2	2.1	7.5	18.1	27.5	29.4	15.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
95/99	.1	.4	.1	.1	.1	.8	.5	.1	.0	.1
90/94	.3	1.2	.9	1.5	1.0	.8	.5	1.0	.0	.8
85/89	1.2	1.2	2.3	4.4	2.8	1.8	1.1	1.7	.0	2.2
80/84	1.8	1.5	2.2	5.3	6.3	4.0	1.3	2.1	.0	2.4
75/79	2.7	1.7	1.4	3.1	5.4	3.9	1.4	3.2	.0	3.1
70/74	2.1	1.7	1.3	2.5	2.0	1.4	1.0	3.0	.0	2.6
65/69	.6	.4	.2	.2	.2	.2	.2	.7	.0	.2
60/64	.4	.4	.0	.0	.0	.0	.4	.1	.0	.0
TOTAL	7.29	5.57	6.69	13.81	14.23	9.71	4.45	9.61	.0	9.56
PCT	9.0	6.9	8.3	17.1	17.7	12.0	5.5	11.9	.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
00203	94	86	84	78	72	70	63	78.2	2956
06209	97	90	88	81	75	72	61	81.5	2983
12215	99	92	89	82	75	73	67	82.2	3021
18221	97	86	84	79	73	71	61	79.0	2742
TOT	99	90	87	80	74	71	61	80.2	11762

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00203	.0	6.0	13.1	23.1	33.1	24.8	50	2189
06209	.0	12.5	19.7	32.1	26.6	9.2	14	2227
12215	.0	13.6	24.3	30.4	24.5	7.0	13	2176
18221	.0	6.5	15.6	24.8	33.3	19.7	19	2014
TOT	.0	8.47	15.83	23.88	25.05	12.8	7.6	8606

PERIOD: (PRIMARY) 1969-1971  
(OVER-ALL) 1805-1971

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AREA 0021 S. GULF OF OMAN  
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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 OIF	61	65	69	73	77	81	85	89	93	TCT	M FOG	MD FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	.0	.3
13/13	.0	.0	.0	.0	.0	.1	.2	.4	.1	61	.0	.7
6/10	.0	.0	.0	.0	.1	.2	.4	.8	.4	129	.0	1.4
7/8	.0	.0	.0	.0	.2	.6	.8	.8	.4	267	.0	2.8
5	.0	.0	.0	.1	.5	.9	.9	.8	.3	189	.0	2.0
4	.0	.0	.0	.3	.9	1.2	1.0	.8	.2	325	.0	3.5
3	.0	.0	.0	.4	1.1	1.4	1.4	.8	.3	418	.0	4.5
2	.0	.0	.1	1.1	2.0	2.1	1.8	1.1	.1	502	.0	5.4
1	.0	.0	.2	1.7	2.0	2.2	1.8	1.1	.1	765	.0	8.2
0	.0	.0	.5	2.7	2.8	2.9	2.5	1.0	.0	829	.0	8.9
-1	.0	.0	.8	3.0	2.8	2.6	1.7	.7	.0	1156	.2	12.3
-2	.0	.1	1.6	2.9	2.3	2.4	1.2	.2	.0	1074	.1	11.4
-3	.0	.1	1.6	2.1	1.7	1.5	1.0	.2	.0	1015	.2	10.6
-4	.0	.2	1.8	1.9	1.6	1.2	.5	.0	.0	769	.1	8.1
-5	.0	.2	1.4	1.1	.9	.7	.2	.1	.0	675	.1	7.1
-6	.0	.2	1.7	.7	.5	.2	.0	.0	.0	426	.0	4.5
-7/-8	.0	.5	.9	.7	.5	.1	.0	.0	.0	294	.0	3.2
-9/-10	.1	.2	.2	.1	.2	.1	.0	.0	.0	86	.0	.9
-11/-13	.0	.1	.0	.0	.1	.0	.0	.0	.0	26	.0	.3
-14/-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	.0	.1
TOTAL	11	148	910	1757	1934	2011	1528	812	193	9320	75	9237
PCT	.1	1.6	9.8	18.9	20.7	21.5	16.4	8.7	2.1	100.0	.8	99.1

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TABLE 18  
AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

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

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

HGT	NE										PCT		
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33		34-47	48+
<1	1.0	1.5	.1	.0	.0	.0	.0	1.1	.0	.0	.0	.0	2.6
1-2	.0	3.3	.4	.0	.0	.0	.0	3.3	.4	.0	.0	.0	3.9
3-4	.0	1.2	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9
5-6	.0	1.3	.0	.1	.0	.0	.0	.2	.0	.0	.0	.0	.3
7	.0	.0	.3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.3
8-9	.0	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	6.3	3.1	.3	.0	.0	.0	10.9	5.7	1.4	.1	.0	8.5

HGT	SE										PCT		
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33		34-47	48+
<1	.6	1.3	.0	.0	.0	.0	.0	2.4	.3	.0	.0	.0	3.6
1-2	.4	3.9	.4	.0	.0	.0	.0	5.6	1.3	.0	.0	.0	7.2
3-4	.1	1.1	.9	.0	.0	.0	.0	2.0	1.5	.0	.0	.0	3.6
5-6	.0	.2	.3	.0	.0	.0	.0	.2	.7	.0	.0	.0	.9
7	.0	.0	.1	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	6.6	1.7	.0	.0	.0	.0	5.1	10.3	4.0	.1	.0	15.7



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TABLE 18  
APEA 0021 S. GULF OF OMAN  
23.1N 59.3E

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

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

HGT	S				SM				48+	PCT	
	1-3	4-10	11-21	22-33	34-47	48+	11-21	22-33			34-47
<1	.9	1.6	.1	.0	.0	.0	1.5	.1	.0	.0	1.6
1-2	.0	5.4	1.5	.0	.0	.0	3.3	.7	.0	.0	4.2
3-4	*	2.4	3.5	.1	.0	.0	1.2	2.7	.0	.0	4.1
5-6	.0	.4	2.3	.4	.0	.0	.2	1.6	.0	.0	2.0
7	.0	.1	.8	.2	.0	.0	.0	.6	.0	.0	.6
8-9	.0	*	.3	.1	.0	.0	*	.1	.0	.0	.4
10-11	.0	.0	.1	.1	.0	.0	*	*	.0	.0	.1
12	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	9.9	8.6	.9	.0	.0	6.2	5.7	.0	.0	13.1

HGT	NH				SM				48+	PCT	
	1-3	4-10	11-21	22-33	34-47	48+	11-21	22-33			34-47
<1	.4	.8	.0	.0	.0	.0	1.8	.2	.0	.0	3.0
1-2	.2	2.6	.6	.0	.0	.0	3.3	1.1	.0	.0	5.0
3-4	*	.7	.8	.0	.0	.0	1.5	2.6	.1	.0	4.2
5-6	.0	*	.2	.0	.0	.0	.4	1.2	.2	.0	1.8
7	.0	.0	.1	.0	.0	.0	.0	.3	.1	.0	.4
8-9	.0	.0	*	.0	.0	.0	.0	.1	.1	.0	.2
10-11	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	4.2	1.7	.0	.0	.0	7.0	5.5	.0	.0	14.7

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TABLE 18 (CONT)

HGT	3-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	22.6	10.4	.6	.0	.0	.0	31.5	
1-2	2.6	25.6	5.4	.0	.0	.0	33.6	
3-4	.3	9.4	12.0	.3	.0	.0	22.0	
5-6	.0	1.6	6.0	.9	.0	.0	8.5	
7	.0	.1	2.1	.4	.0	.0	2.5	
8-9	.0	.0	.6	.0	.0	.0	1.2	
10-11	.0	.1	.1	.2	.0	.0	.4	
12	.0	.0	.0	.1	.0	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	23.5	47.1	26.8	2.4	.0	.0	100.0	2703

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	10.2	22.7	15.6	3.9	.8	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2
6-7	.2	1.0	3.8	4.4	1.5	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
8-9	.0	.3	.7	1.0	.9	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6
10-11	.0	.0	.2	.4	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6
12-13	.0	.0	.0	.2	.1	.1	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7
>13	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9
INDET	20.3	4.9	2.2	.8	.3	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
TOTAL	2322	2193	1896	794	296	134	51	21	20	5	0	0	0	0	0	0	0	0	0	0	0	7532
PCT	30.8	29.2	22.6	10.5	3.9	1.8	.7	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2

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TABLE 20

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

SEA TMP OEG 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	.2	.2	.1	.0	.0	.0	.0	3	.4
93/94	.0	.0	.0	.0	.0	1.2	1.2	1.2	.8	.0	.0	.0	41	1.8
91/92	.0	.0	.0	.0	.6	5.9	7.8	4.4	2.7	.4	.0	.0	190	5.7
89/90	.0	.0	.0	.0	3.3	20.7	19.4	13.3	8.7	2.7	.2	.0	594	7.1
87/88	.0	.0	.0	.1	9.4	22.2	14.9	14.4	13.0	9.4	1.6	.0	740	10.3
85/86	.0	.0	.0	2.0	27.5	18.7	19.8	15.2	20.3	25.6	4.5	.2	1080	13.1
83/84	.0	.3	.4	8.6	27.9	10.4	9.6	8.4	13.2	27.7	21.1	1.2	1135	10.8
81/82	.2	.2	2.6	29.5	21.5	7.0	9.1	8.3	13.6	20.5	33.6	5.4	1374	13.1
79/80	2.7	2.8	12.8	27.5	7.2	5.4	7.7	10.0	8.5	9.2	24.9	20.6	1218	11.6
77/78	14.7	10.2	28.0	20.5	2.0	3.0	6.9	6.4	7.0	2.5	3.6	22.2	1376	12.0
75/76	36.3	29.3	35.0	8.6	.5	1.8	6.3	6.6	6.1	.8	.8	11.6	1047	10.0
73/74	33.3	39.8	14.7	2.2	.1	.5	5.1	6.7	3.1	.7	.3	11.6	344	3.3
71/72	10.5	13.7	4.6	2.4	.0	.5	1.6	3.7	2.2	.7	.1	1.5	67	.5
69/70	2.0	2.7	1.0	1.1	.0	.0	.1	.9	.3	.0	.0	.1	23	.2
67/68	.4	1.0	.7	.0	.0	.0	.3	.1	.0	.0	.0	.0	1	.4
65/66	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	2	.4
63/64	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
427	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	857	539	897	833	859	866	887	900	774	961	915	868	10496	100.0
MEAN	74.6	74.2	76.1	79.6	83.8	81.8	84.1	83.0	83.1	83.6	81.0	77.3	80.5	

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TABLE 21  
PRESSURE (MB)

MO	AVERAGE BY HOUR (GMT)												TOTAL OBS	EXTREMES									
	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	MAX	YEAR	OA		HR	MIN	YEAR	DA	HR					
JAN	1015	1017	1019	1017	1016	1017	1018	1016	1017	1017	1018	1016	1017	896	1027	1964	18	06	1000	1954	03	00	
FEB	1014	1015	1017	1015	1014	1013	1015	1015	1015	1015	1015	1015	1015	936	1028	1957	09	06	987	1954	15	18	
MAR	1012	1014	1014	1013	1012	1012	1013	1013	1013	1013	1013	1013	1013	933	1023	1957	09	18	998	1965	26	12	
APR	1009	1008	1011	1010	1009	1010	1010	1009	1010	1010	1010	1010	1010	856	1021	1965	07	06	997	1966	18	12	
MAY	1004	1006	1006	1005	1005	1006	1005	1005	1005	1005	1005	1005	1005	891	1017	1966	14	06	989	1965	24	12	
JUN	999	1001	1000	999	999	999	999	998	998	998	998	998	998	892	1011	1966	02	12	984	1966	19	00	
JUL	997	998	999	997	997	999	998	998	998	998	998	998	998	918	1014	1960	22	12	984	1965	14	12	
AUG	999	1001	1001	1000	999	1000	1000	1000	1000	1000	1000	1000	1000	955	1013	1949	30	12	989	1964	03	00	
SEP	1004	1006	1006	1004	1004	1004	1006	1006	1005	1005	1006	1006	1005	789	1015	1952	29	06	988	1959	10	00	
OCT	1011	1013	1013	1011	1011	1011	1012	1011	1012	1012	1012	1012	1012	972	1022	1963	30	06	1001	1961	08	18	
NOV	1015	1016	1017	1015	1015	1016	1016	1016	1016	1016	1016	1016	1016	954	1025	1955	21	06	1002	1953	07	00	
DEC	1018	1017	1018	1016	1017	1017	1017	1017	1017	1017	1017	1017	1017	885	1026	1951	04	18	999	1953	29	00	
ANY	1008	1010	1010	1009	1008	1009	1009	1009	1009	1009	1009	1009	1009	10877									
OBS	2574	126	2569	243	2610	198	2384	167															

PERCENTILES

MO	1%	5%	25%	50%	75%	95%	97%
JAN	1006	1012	1015	1017	1019	1022	1024
FEB	1005	1009	1013	1015	1017	1020	1022
MAR	1003	1008	1011	1013	1015	1018	1020
APR	1001	1004	1008	1010	1012	1015	1017
MAY	996	999	1003	1005	1007	1011	1013
JUN	991	994	997	999	1002	1005	1008
JUL	989	992	994	998	1000	1003	1006
AUG	991	995	998	1000	1002	1005	1009
SEP	994	999	1002	1005	1007	1011	1012
OCT	1004	1005	1010	1012	1014	1016	1018
NOV	1009	1011	1014	1016	1017	1020	1022
DEC	1006	1012	1015	1017	1019	1021	1023

AREA 0022 S. E. PERSIAN GULF  
26.0N 54.7E

JANUARY

PERIOD: (PRIMARY) 1938-1971  
(OVER-ALL) 1908-1971

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN		DRZL		PRECIPITATION TYPE			HAIL		PCT FRZO		TOTAL		OTHER WEATHER PHENOMENA						TOTAL OBS
	SHWR	SHWL	PCPN	PCPN	FRZG	SNOW	OTHER	PCPN	PCPN	PCPN	PCPN	PCPN	PCPN	WD	HAZE	BLWG	GUST	SIG	NO	
N	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1	0	.0	.0	.2	.0	.2	.5	10.5	66
NE	.7	.3	*	.0	.0	.0	.0	.0	.0	1.1	4	.2	.0	.0	.7	.0	.5	12.4	90	
E	.4	.3	.1	.0	.0	.0	.0	.0	.0	1.0	6	.0	.0	.0	.7	.0	.5	9.9	72	
SE	.2	.0	*	.0	.0	.0	.0	.0	.0	.2	1	.0	.0	.0	*	.0	.0	3.7	23	
S	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	0	.0	.1	.0	.1	.0	.0	3.3	21	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.1	.0	.6	.0	.0	6.5	43	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.4	.0	.2	18.3	113	
NW	.0	.0	*	.0	.0	.0	.0	.0	.0	*	0	.0	.0	.2	1.4	.0	.0	14.2	96	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.7	.0	.0	11.8	0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.7	.0	.0	11.8	0	
TOT OBS	8	3	3	0	0	0	0	0	0	0	16	.0	.2	1	29	.0	.9	345	802	
TOT PCT	1.3	.6	.5	.0	.0	.0	.0	.0	.0	2.7	.3	.0	.2	4.8	1.5	.0	90.5	100.0		

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN		DRZL		PRECIPITATION TYPE			HAIL		PCT FRZO		TOTAL		OTHER WEATHER PHENOMENA						TOTAL OBS
	SHWR	SHWL	PCPN	PCPN	FRZG	SNOW	OTHER	PCPN	PCPN	PCPN	PCPN	PCPN	PCPN	WD	HAZE	BLWG	GUST	SIG	NO	
00003	1.3	1.3	.6	.0	.0	.0	.0	.0	.0	2.2	5	.6	.6	.6	5.7	.6	.6	89.2	158	
06009	.0	.6	.6	.0	.0	.0	.0	.0	.0	1.2	2	.0	.0	.0	4.2	1.2	1.2	93.3	165	
12015	1.7	.6	.6	.0	.0	.0	.0	.0	.0	2.6	5	.0	.0	10.2	3.4	3.4	83.5	175		
18021	1.9	.6	.0	.0	.0	.0	.0	.0	.0	2.6	4	.6	.6	5.2	.0	.0	.0	97.9	154	
TOT	8	5	3	0	0	0	0	0	0	0	16	.2	.2	42	.9	.9	582	653		
PCT	1.2	.8	.5	.0	.0	.0	.0	.0	.0	2.5	.3	.3	.3	6.4	1.4	1.4	89.1	100.0		

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AREA 0022 S. E. PERSIAN GULF  
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TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)											
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPO	00	03	06	09	12	15	18	21					
N	1.7	6.5	1.3	.1	.1	.0	71	10.1	7.0	11.6	4.8	11.7	5.9	9.8	1.9	11.1	6.3					
NE	1.4	9.0	4.2	.1	.0	.0	104	14.7	8.9	9.9	9.5	23.6	27.0	15.2	9.3	8.7	13.3					
E	1.7	7.6	3.4	.1	.0	.0	90	12.8	9.0	6.9	16.7	11.7	11.8	17.0	22.2	12.0	16.7					
SE	.6	2.4	.6	.3	.0	.0	27	3.9	9.1	5.5	7.1	4.6	3.9	3.0	1.9	3.0	1.7					
S	.7	1.9	.7	.1	.0	.0	24	3.5	8.6	2.0	2.4	5.7	6.6	4.0	3.7	.7	1.7					
SW	1.6	4.4	1.1	.4	.0	.0	53	7.5	8.0	7.6	16.7	4.8	11.8	5.1	14.8	5.6	23.3					
W	2.7	9.3	6.2	.5	.2	.0	134	18.9	9.6	19.8	16.7	16.8	15.8	20.8	14.8	21.1	13.3					
NW	2.6	8.2	4.7	1.1	.2	.0	119	16.8	10.0	19.6	16.7	12.6	17.1	16.2	20.4	18.5	15.0					
VAR	.0	.0	.0	.0	.0	.0	84	11.8	.0	.0	.0	.0	.0	.0	.0	.0	.0					
CALM	11.8	352	158	20	4	0	709	100.0	7.9	16.1	9.5	8.5	.0	8.9	14.1	19.3	6.7					
TOT OBS	175	49.6	22.3	2.8	.6	.0	709			149	21	141	38	168	27	135	30					
TOT PCT	24.7	49.6	22.3	2.8	.6	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0					

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)											
	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPO	00	03	06	09	12	15	18	21						
N	5.9	3.9	1.2	.1	.0	71	10.1	7.0	10.7	10.5	8.7	10.5	8.7	10.6								
NE	6.0	7.3	1.4	.0	.0	104	14.7	8.9	9.9	24.3	14.4	24.3	14.4	9.5								
E	4.5	7.1	1.2	.0	.0	90	12.8	9.0	8.1	11.7	17.7	17.7	17.7	12.9								
SE	1.7	1.7	.5	.0	.0	27	3.9	9.1	5.7	4.3	2.8	4.3	2.8	2.7								
S	1.6	1.4	.4	.1	.0	24	3.5	8.6	2.9	5.9	4.0	5.9	4.0	.9								
SW	3.4	3.5	.6	.0	.0	53	7.5	8.0	8.7	6.3	6.4	6.3	6.4	8.8								
W	7.0	9.9	1.8	.3	.0	134	18.9	9.6	19.3	16.6	20.0	16.6	20.0	19.7								
NW	6.8	7.4	2.0	.6	.0	119	16.8	10.0	19.3	13.5	16.8	13.5	16.8	17.9								
VAR	.0	.0	.0	.0	.0	84	11.8	.0	.0	.0	.0	.0	.0	.0								
CALM	11.8	352	158	20	4	709	100.0	7.9	15.3	6.7	9.2	17.0	17.0	165								
TOT OBS	845	298	88	6	0	709			170	179	195	165	165	165								
TOT PCT	48.7	42.0	8.2	1.1	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0								

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

HOUR	CALM	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33			
0603	15.3	12.4	47.1	22.4	2.4	0	7.6	170
0609	6.7	16.2	53.6	19.6	3.4	0	8.0	179
1215	9.2	10.8	54.4	22.6	2.5	0	8.1	198
1821	17.0	12.1	42.4	24.8	3.0	0	7.9	165
TOT	84	91	352	158	20	0	7.9	709
PCT	11.8	12.8	49.6	22.3	2.8	0	100.0	

TABLE 5

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

WIND DIR	PCT FREQ				TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-10		
N	7.8	1.4	.8	.9	56	1.3
NE	8.6	3.3	1.5	1.5	75	2.8
E	6.4	1.6	2.5	1.8	63	2.1
SE	2.0	.2	.8	.5	18	3.0
S	1.9	.5	.8	1.1	16	2.8
SW	4.6	1.1	.7	.3	29	1.3
W	14.9	2.6	2.5	2	104	1.6
NW	11.0	2.8	2.0	1.7	85	1.9
VAR	.0	.0	.0	.0	0	.0
CALM	10.4	1.5	1.4	.0	59	1.2
TOT OBS	350	61	76	31	518	2.1
TOT PCT	67.6	11.4	14.7	6.0	100.0	

TABLE 6

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

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)										TOTAL OBS	
	000	150	300	600	1000	2000	3500	5000	6500	8000+		NH <5/8
N	.0	.0	.0	.0	.0	.3	.2	.0	.1	.0	.5	55
NE	.0	.0	.4	.2	.9	.4	.5	.1	.2	.0	.2	75
E	.0	.0	.3	.3	.9	.8	.2	.1	.0	.0	.0	63
SE	.0	.0	.0	.4	.2	.0	.1	.1	.2	.0	.0	18
S	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	16
SW	.0	.0	.0	.0	.2	.1	.2	.1	.0	.0	.0	29
W	.0	.0	.0	.0	.0	.0	.3	.2	.2	.2	.2	104
NW	.0	.0	.0	.0	.4	.6	.4	.0	.0	.0	.4	85
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.4	.0	.0	.2	.0	.0	.0	.0	.0	69
TOT OBS	0	0	4	8	17	12	10	5	5	8	5	516
TOT PCT	.0	.0	.8	1.5	3.3	2.3	1.9	1.0	1.0	1.5	1.5	100.0

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TABLE 7

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

CEILING (FEET)	OR		OR		OR		OR		OR		OR
	>10	>5	>2	>1/2	>1/4	>50YD	>0				
OR >6500	2.0	3.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
OR >5000	2.6	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
OR >3500	3.7	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
OR >2000	5.4	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
OR >1000	7.6	10.9	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
OR >600	8.3	12.4	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6
OR >300	8.9	13.1	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
OR >150	8.9	13.1	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
OR >10	8.9	13.1	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
TOTAL	48	71	72	72	72	72	72	72	72	72	72

TOTAL NUMBER OF OBS 540

P/LT FREQ NM <5/81 86.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

D	1	2	3	4	5	6	7	8	085CD	TOTAL
	17.2	10.4	5.2	3.3	3.0	4.5	3.3	3.5	.0	575



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TABLE 8  
PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.3	.2	.0	.0	.0	.0	.2	.0	.0	.0	.7
TOT %	.0	.3	.2	.0	.0	.0	.0	.2	.0	.0	.0	.7
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.1	.0	.2	.1	.1	.0	.0	.1	.0	.0	.0	.5
TOT %	.1	.0	.2	.1	.1	.0	.0	.1	.0	.0	.0	.5
PCP	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2
NO PCP	.2	.2	.0	.2	.1	.4	.3	.2	.0	.0	.0	1.5
TOT %	.2	.2	.1	.2	.1	.4	.3	.2	.0	.0	.0	1.7
PCP	.0	.5	.5	.2	.1	.0	.0	.0	.0	.0	.0	1.3
NO PCP	1.5	1.8	2.5	1.2	1.0	.6	1.7	2.4	.0	1.0	1.0	13.6
TOT %	1.5	2.3	2.9	1.5	1.2	.6	1.7	2.4	.0	1.0	1.0	15.0
PCP	.1	.5	.5	.0	.0	.0	.0	*	.0	.0	.0	1.2
NO PCP	9.2	11.5	8.3	2.2	2.3	6.1	16.8	13.1	.0	11.5	11.5	81.1
TOT %	9.3	12.1	8.7	2.2	2.3	6.1	16.8	13.2	.0	11.5	11.5	82.2
TOT OBS	11.0	15.0	12.0	3.9	3.6	7.1	18.8	16.0	.0	12.5	100.0	602

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JANUARY

AREA 0022 S. E. PERSIAN GULF  
26.0°N 56.7E

TABLE 9

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

VSBY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3
	TOT %	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.6	.6
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.3	.3
	11-21	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1
	TOT %	.1	.0	.1	.1	.1	.0	.0	.1	.0	.0	.4	.4
2<5	0-3	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	.4	.4
	4-10	.0	.0	.1	.1	.0	.1	.0	.0	.0	.0	.7	.7
	11-21	.1	.2	.1	.0	.1	.1	.0	.0	.0	.0	.7	.7
	TOT %	.1	.2	.2	.1	.1	.4	.3	.1	.0	.0	1.6	1.6
5<10	0-3	.2	.2	.4	.0	.0	.3	.7	.1	.0	1.0	3.0	3.0
	4-10	.8	1.5	1.6	.9	.6	.1	.9	1.2	.0	.0	7.6	7.6
	11-21	.3	1.9	.9	.4	.4	.0	.3	.8	.0	.0	4.0	4.0
	TOT %	1.3	2.6	3.0	1.3	1.0	.6	2.1	2.4	.0	1.0	15.3	15.3
10+	0-3	1.5	1.1	1.3	.6	.7	1.1	1.8	2.3	.0	11.1	21.5	21.5
	4-10	6.2	7.2	5.8	1.3	1.3	4.0	8.2	6.8	.0	.0	40.8	40.8
	11-21	.8	3.0	2.4	1.3	1.1	1.1	5.6	3.9	.0	.0	17.4	17.4
	TOT %	7.2	11.3	9.8	2.4	2.4	6.5	16.1	13.9	.0	11.1	82.7	82.7
TOT OBS		10.2	14.5	13.0	4.0	3.0	7.4	18.5	15.6	.0	12.1	694	694
TOT PCT													

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TABLE 10  
PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR										TOTAL NH <5/8 ANY HGT OBS	TOTAL NH <5/8 ANY HGT OBS	
	000 149	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL			ANOS+
00003	.0	.0	.7	.0	2.2	2.9	2.2	.0	.0	.0	8.1	91.9	136
06009	.0	.0	.7	.0	5.0	4.3	2.1	1.4	2.1	17.0	89.0	141	
12015	.0	.0	1.3	2.6	2.0	.0	1.3	1.3	2.0	12.6	87.4	151	
18021	.0	.0	.0	2.8	3.5	2.1	1.4	1.4	.0	1.4	12.6	87.4	143
TOT	0	0	4	18	13	10	6	5	8	72	499	571	
PCT	.0	.0	.7	1.1	3.2	2.3	1.8	1.1	.9	1.4	12.6	87.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	PERCENT FREQUENCY VSBY (NH) BY HOUR										TOTAL OBS
	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL				
00003	.0	.0	.0	.8	13.6	85.6	125				
06009	.0	.0	.0	.7	12.6	86.7	135				
12015	.0	.0	.7	.0	17.1	82.2	146				
18021	.0	.0	.0	.0	13.4	86.6	134				
TOT	0	0	1	2	77	460	540				
PCT	.0	.0	.2	.4	14.3	85.2	100.0				

TABLE 12

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

HOUR (GMT)	CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR										TOTAL OBS
	<150 <50Y0	<600 <1	<1000 <3	1000+ ANOS+	NH <5/8 AND 5+	TOTAL					
00003	.0	.8	1.6	7.2	91.2	125					
06009	.0	.7	1.5	17.0	81.5	135					
12015	.0	1.4	4.8	8.9	86.3	146					
18021	.0	.0	3.0	10.4	86.6	134					
TOT	0	4	15	59	466	540					
PCT	.0	.7	2.8	10.9	86.3	100.0					

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TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL DBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	90-100			
80/84	.0	.2	.0	.4	.2	.0	.0	.0	.0		4	.9
75/79	.0	.0	.9	1.5	2.6	3.1	.6	.0	.0		36	7.7
70/74	.0	.4	3.4	7.5	10.9	13.2	9.4	3.2	.0		225	49.0
65/69	.0	.2	1.3	4.9	8.3	10.4	7.0	4.3	.0		171	36.5
60/64	.0	.0	.9	2.1	.9	.9	.5	.2	.0		20	5.5
55/59	.0	.0	.0	.6	.6	.2	.0	.0	.0		7	1.5
TOTAL	.0	.4	3.0	8.0	11.0	26.9	83	36	.0		469	100.0
PCT	.0	.9	5.4	17.1	23.5	20.9	17.7	7.7	.0			

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP												
N	NE	E	SE	S	SW	W	NW	VAR	CALM			
.0	.4	.0	.0	.5	.0	.4	.0	.0	.0			
.8	.9	1.0	.2	.5	.4	2.5	.9	.0	.4			
5.1	5.7	7.0	1.3	1.3	4.3	8.4	8.0	.0	6.8			
4.9	5.1	2.9	2.7	.7	2.2	7.7	6.6	.0	3.6			
.4	1.7	1.0	.2	.4	.0	1.2	.0	.0	.4			
.2	.4	.0	.0	.0	.0	.2	.5	.0	.2			
52	66	52	20	14	32	91	80	.0	54			
11.2	14.2	11.9	4.4	3.0	6.9	19.6	17.2	.0	11.5			

TABLE 15

HOUR (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR						TOTAL DBS
	MAX	99%	95%	50%	5%	MIN	
0000	79	75	73	68	63	58	184
0600	80	79	76	70	64	57	190
1200	83	81	78	72	66	59	208
1800	82	78	73	70	64	57	173
TOT	83	80	76	70	63	56	755

TABLE 16

HOUR (GMT)	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL DBS
	0-29	30-39	60-69	70-79	80-89	90-100	MEAN				
0000	.0	15.3	22.0	29.7	23.7	9.3	73				116
0600	.0	27.3	18.2	28.9	17.4	8.3	70				121
1200	.0	28.9	28.1	25.0	12.5	5.5	67				128
1800	.0	23.8	27.0	26.2	10.4	6.6	69				122
TOT	0	11.7	11.7	134	85	36	70				489

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26.0N 54.7E

TABLE 17

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

AIR-SEA TEMP DIFF	53	57	61	65	69	73	77	81	TOT	W FOG	NO FOG
9/10	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	12
7/8	.0	.0	.0	.0	.0	.2	.4	.4	5	.0	.9
6	.0	.0	.0	.0	.2	.6	.2	.0	5	.0	.9
5	.0	.0	.0	.0	.0	.7	.6	.2	8	.0	1.5
4	.0	.0	.0	.2	.7	.4	.6	.0	10	.0	1.8
3	.0	.0	.0	.2	.2	.9	.2	.0	8	.0	1.5
2	.0	.0	.0	.0	1.1	2.9	.0	.0	22	.0	4.0
1	.0	.0	.0	.0	2.0	2.4	.2	.0	25	.0	4.6
0	.0	.0	.0	.4	4.4	3.7	.4	.0	46	.0	8.5
-1	.0	.0	.2	1.8	5.5	3.1	.4	.0	49	.0	9.0
-2	.0	.0	.2	1.8	6.3	1.7	.6	.0	57	.2	10.3
-3	.0	.0	.0	2.8	6.8	1.1	.0	.0	58	.2	10.5
-4	.0	.0	.2	3.1	5.9	.9	.2	.0	54	.0	9.9
-5	.0	.0	.6	3.9	4.2	.6	.0	.0	50	.0	9.2
-6	.0	.0	.7	3.5	3.9	.0	.0	.0	42	.0	7.7
-7/-8	.0	.0	.7	4.0	3.5	.0	.0	.0	36	.0	10.3
-9/-10	.0	.2	1.5	3.1	.9	.0	.0	.0	31	.0	5.7
-11/-13	.0	.7	.6	.4	.2	.0	.0	.0	10	.0	1.8
-14/-16	.2	1.1	.0	.0	.0	.0	.0	.0	17	.0	1.3
TOTAL	1	11	22	128	257	104	17	4	544	2	342
PCT	.2	2.0	4.0	23.5	47.2	19.1	3.1	.7	100.0	.4	99.6

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

TABLE 18  
 PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N					NE					48+	PCT
	1-3	4-10	11-21	22-33	34-47	1-3	4-10	11-21	22-33	34-47		
<1	.0	3.8	.0	.0	.0	.0	3.5	.0	.0	.0	.0	3.5
1-2	.0	3.3	.8	.0	.0	.0	7.9	2.4	.0	.0	.0	10.3
3-4	.0	.0	.8	.0	.0	.0	1.1	4.6	.0	.0	.0	5.7
5-6	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	3.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	1.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.1	1.6	.0	.0	.0	12.5	11.4	.0	.0	.0	23.9

HGT	E					SE					48+	PCT
	1-3	4-10	11-21	22-33	34-47	1-3	4-10	11-21	22-33	34-47		
<1	1.1	2.2	.0	.0	.0	1.1	2.7	.0	.0	.0	.0	3.8
1-2	.0	4.1	.8	.0	.0	.0	.3	.0	.0	.0	.0	.3
3-4	.0	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	1.1
7	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	1.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	6.3	4.1	.8	.0	1.1	3.0	2.2	.3	.0	.0	6.5

PERIODS (PRIMARY)  
 (OVER-ALL) 1963-1971

TABLE 10  
 FCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGT	S				SW				PCT				
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10		11-21	22-33	34-47	48+
<1	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
1-2	.0	1.9	.0	.0	.0	.0	.0	2.4	.0	.0	.0	.0	2.4
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	1.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.5	.0	.0	.0	.0	.0	2.7	1.1	.0	.0	.0	7.8

MGT	NW				SW				PCT				
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10		11-21	22-33	34-47	48+
<1	1.1	3.0	.0	.0	.0	.0	.0	1.1	5.7	.0	.0	.0	6.8
1-2	.0	.8	.8	.0	.0	.0	.0	.0	6.5	2.7	.0	.0	9.2
3-4	.0	1.1	3.3	.0	.0	.0	.0	.0	2.2	1.9	.0	.0	6.3
5-6	.0	1.1	2.2	.0	.0	.0	.0	.0	.0	2.2	.0	.0	2.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	2.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	6.0	6.5	.0	.0	.0	.0	14.4	14.4	6.8	3.9	1.1	26.9

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

JANUARY

AREA 0022 S. E. PERSIAN GULF  
26.0N 54.7E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOT OBS
	0-3	4-10	11-21	22-33	34-47	49+	PCT				
<1	22.8	18.4	.0	.0	.0	.0	41.2				
1-2	.0	21.9	6.1	.0	.0	.0	28.1				
3-4	.0	3.5	12.3	1.8	.0	.0	17.5				
5-6	.0	.9	7.0	.0	.0	.0	7.9				
7	.0	.0	.9	1.8	.9	.0	3.5				
8-9	.0	.0	.9	.9	.0	.0	1.8				
10-11	.0	.0	.0	.0	.0	.0	.0				
12	.0	.0	.0	.0	.0	.0	.0				
13-16	.0	.0	.0	.0	.0	.0	.0				
17-19	.0	.0	.0	.0	.0	.0	.0				
20-22	.0	.0	.0	.0	.0	.0	.0				
23-25	.0	.0	.0	.0	.0	.0	.0				
26-32	.0	.0	.0	.0	.0	.0	.0				
33-40	.0	.0	.0	.0	.0	.0	.0				
41-43	.0	.0	.0	.0	.0	.0	.0				
44-40	.0	.0	.0	.0	.0	.0	.0				
61-70	.0	.0	.0	.0	.0	.0	.0				
71-86	.0	.0	.0	.0	.0	.0	.0				
87+	.0	.0	.0	.0	.0	.0	.0				
TOT PCT	22.8	44.7	27.2	4.4	.9	.0	100.0				114

TABLE 19

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

PERIOD (SEC)	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)										TOTAL	MEAN HGT												
	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19			20-22	23-25	26-32	33-60	41-48	49-60	61-70	71-86	87+			
<1	11.8	28.9	13.1	3.5	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	232	2
<6	.3	1.3	1.0	3.5	.8	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	4
6-7	.3	.0	.3	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	4
8-9	.0	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDET	24.9	4.5	2.5	.5	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	130	1
TOTAL	145	140	68	30	8	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	398	2
PCT	37.2	35.2	17.1	7.5	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	0



FEBRUARY

PERIOD: (PRIMARY) 1949-1971  
(COVER-ALL) 1870-1971

AREA 0022 S. E. PERSIAN GULF  
20.1N 54.6E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHMR	RAIN SHMR	DRZL	PRECIPITATION TYPE				HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN DBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS				
				PCPN	FRZG	SNOW	OTHER					PCPN	FOG	SMOKE	DUST	NO HAZE		BLWG	OUST	SIG	WFA
N	.2	.0	.2	.0	.0	.0	.0	.0	.3	2	.2	.1	.1	.0	.0	.0	.0	.0	.0	7.2	47
NE	.7	.2	.0	.0	.0	.0	.0	.0	.6	5	.4	.0	.2	.0	.0	.0	.0	.0	.0	10.2	70
E	.8	.2	.3	.0	.0	.0	.0	.0	1.2	7	.3	.0	.3	.1	.0	.0	.0	.0	.0	14.0	58
SE	.0	.0	.0	.0	.0	.0	.0	.0	.2	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	13
S	.0	.2	.0	.0	.0	.0	.0	.0	.2	1	.0	.0	.1	.0	.0	.0	.0	.0	.0	0.3	15
SW	.2	.0	.0	.0	.0	.0	.0	.0	.4	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.0	62
WSW	.2	.2	.0	.0	.0	.0	.0	.0	.4	2	.0	.0	.6	.2	.0	.0	.0	.0	.0	24.6	167
W	.5	.0	.0	.0	.0	.0	.0	.0	.3	3	.2	.1	.4	.0	.0	.0	.0	.0	.0	14.5	194
WNW	.0	.0	.0	.0	.0	.0	.0	.0	.3	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
WV	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.2	.0	.0	.0	.0	.0	.0	10.9	71
CALM	.3	.5	.3	.0	.0	.0	.0	.0	.0	22	.6	.2	.2	.0	.0	.0	.0	.0	.0	34.8	398
TOT OBS	13	5	3	0	0	0	0	0	3.7	22	1.0	.5	.5	.3	.3	.3	.3	.3	.3	91.6	100.0
TOT PCT	2.5	.8	.5	.0	.0	.0	.0	.0													

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN SHMR	RAIN SHMR	DRZL	PRECIPITATION TYPE				HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN DBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS					
				PCPN	FRZG	SNOW	OTHER					PCPN	FOG	SMOKE	DUST	NO HAZE		BLWG	OUST	SIG	WFA	
0000Z	4.0	.0	1.3	.0	.0	.0	.0	.0	4.7	7	2.7	.0	.0	.0	.0	.0	.0	.0	.0	89.3	194	
0600Z	.0	1.3	.6	.0	.0	.0	.0	.0	1.9	3	.6	.0	.0	.0	.0	.0	.0	.0	.0	21.7	57	
1200Z	1.5	1.0	.0	.0	.0	.0	.0	.0	2.5	5	.9	.0	.0	.0	.0	.0	.0	.0	.0	1.0	24.9	198
1800Z	5.0	.3	.0	.0	.0	.0	.0	.0	5.3	7	.0	.0	.0	.0	.0	.0	.0	.0	.0	92.3	120	
TOT	15	3	3	0	0	0	0	0	3.9	22	6	.3	.3	.3	.3	.3	.3	.3	.3	97.3	624	
PCT	2.4	.8	.5	.0	.0	.0	.0	.0			1.0	.5	.5	.3	.3	.3	.3	.3	.3	91.6	100.0	

PERIOD: (PRIMARY) 1949-1971  
(OVER-ALL) 1870-1971

FEBRUARY

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.5E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL DBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.0	4.0	2.2	.1	.0	.0	53	7.3	9.4	8.3	6.5	8.5	2.9	8.1	8.0	2.2	15.0
NE	1.4	6.3	3.7	.0	.0	.0	82	11.4	8.8	7.9	8.7	17.7	2.9	14.0	10.7	7.7	15.0
E	1.1	5.3	4.0	.1	.0	.0	83	11.6	9.1	9.1	13.2	14.3	16.2	19.6	19.6	4.3	18.3
SE	.4	1.6	.5	.0	.0	.0	19	2.7	7.4	2.1	2.2	4.2	4.4	3.4	1.1	.2	1.7
S	.7	1.6	.3	.3	.0	.0	21	2.9	8.5	1.0	10.9	4.3	10.3	2.5	3.6	1.4	3.3
SW	1.1	5.4	2.8	.1	.0	.0	71	9.8	9.1	10.5	15.2	6.5	13.2	13.5	3.6	6.1	10.0
W	2.4	12.5	8.9	2.9	.1	.0	194	26.8	11.7	26.6	16.3	18.2	25.0	27.5	33.9	34.5	23.3
NW	1.7	6.5	6.4	1.5	.0	.0	116	16.1	11.6	24.1	20.7	11.2	16.2	10.0	15.2	20.9	23.3
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALC	11.3	21.0	21.0	5.6	1	0	82	11.3	.0	10.3	4.5	16.0	8.8	11.3	3.6	12.5	30
TOT DBS	154	323	291	724	724	9.1	145	23	34	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
TOT PCT	21.3	44.0	29.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)					
	0-6	7-16	17-27	28-40	41+	TOTAL DBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.6	3.8	.9	.1	.0	53	7.3	9.4	8.0	8.0	7.5	8.1	5.0	5.0	5.0	5.0
NE	4.2	6.4	.8	.0	.0	82	11.4	8.8	8.0	8.0	14.9	13.6	7.1	7.1	7.1	7.1
E	4.8	5.9	.9	.0	.0	83	11.6	9.1	10.0	10.0	14.8	10.8	10.5	10.5	10.5	10.5
SE	1.3	1.4	.0	.0	.0	19	2.7	7.4	2.1	2.1	4.2	3.2	.5	.5	.5	.5
S	1.8	1.8	.2	.1	.0	21	2.9	8.5	2.4	2.4	4.6	2.6	1.8	1.8	1.8	1.8
SW	3.3	5.8	.7	.0	.0	71	9.8	9.1	11.2	11.2	7.7	12.3	6.9	6.9	6.9	6.9
W	6.7	13.7	6.1	.4	.0	194	26.8	11.7	25.1	25.1	19.4	28.2	36.2	36.2	36.2	36.2
NW	4.8	7.1	3.9	.2	.0	116	16.1	11.6	23.7	23.7	12.1	10.6	21.5	21.5	21.5	21.5
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALC	11.3	21.0	21.0	5.6	1	0	82	11.3	9.1	9.1	14.9	13.6	7.1	7.1	7.1	7.1
TOT DBS	295	325	98	724	724	9.1	11.3	.0	9.5	14.7	10.4	10.6	10.6	10.6	10.6	10.6
TOT PCT	40.7	44.9	13.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

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

HOUR	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
	1-3	4-10	11-21	22-33			
0000	9.5	7.7	54.0	4.2	0	9.6	168
0609	14.7	10.9	45.1	3.8	0	8.2	184
1215	10.4	11.7	45.0	7.4	0	9.1	231
1821	10.6	8.5	44.0	3.5	7	9.6	141
TOT	82	323	210	36	1	9.1	724
PCT	11.3	44.6	29.0	5.0	.1	100.0	

TABLE 5

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

WIND DIR	PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION						TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-6	0-500	500-1000		
N	4.2	1.4	1.6	1.8	1.8	1.7	42	3.2
NE	4.1	1.2	3.8	2.5	4.2	4.2	65	4.2
E	3.7	2.2	2.1	2.0	3.8	3.8	54	3.8
SE	.8	.9	.4	.4	3.1	3.1	12	3.1
S	.8	.6	.5	.3	3.5	3.5	11	3.5
SW	6.2	1.6	1.4	.1	2.0	2.0	50	2.0
W	21.9	2.8	2.3	1.4	1.4	1.4	153	1.4
NW	11.9	1.6	1.8	1.0	1.7	1.7	88	1.7
VAR	.0	.0	.0	.0	.0	.0	0	.0
CALM	9.4	1.1	.6	.9	1.4	1.4	65	1.4
TOT OBS	341	173	73	54	541	541	541	2.3
TOT PCT	63.0	13.5	13.5	10.0	100.0	100.0		

TABLE 6

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

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION										TOTAL OBS	
	000	150	300	600	1000	2000	3500	5000	6500	8000+		ANY HGT
N	.0	.0	.2	.4	.2	.2	.0	.0	.0	.0	.5	62
NE	.0	.0	.0	.6	1.1	1.1	.0	.2	.2	.0	.3	63
E	.0	.0	.2	.4	.5	.7	.2	.4	.0	.0	.2	54
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11
SW	.0	.0	.0	.2	.0	.5	.1	.0	.0	.0	.0	50
W	.0	.0	.0	.2	.7	1.1	.5	.0	.2	.4	.6	153
NW	.0	.0	.0	.0	.6	.6	.2	.0	.0	.0	.0	88
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.2	.0	.0	.2	.0	.2	.2	.0	.0	.0	.0	65
TOT OBS	1	0	2	9	18	19	6	3	3	10	3	541
TOT PCT	.2	.0	.4	1.7	3.3	3.5	1.1	.6	.6	1.8	.6	100.0

PERIOD: (PRIMARY) 1949-1971  
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TABLE 7  
CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	>10		>5		>2		>1		>1/2		>1/4		>50YD		>0	
	OR	CR	OR	CR	OR	CR	OR	CR	OR	CR	OR	CR	OR	CR	OR	CR
>6500	2.1	2.3	2.3	2.3	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
>5000	2.7	2.9	2.9	2.9	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
>3500	3.8	3.9	3.9	3.9	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
>2000	6.4	7.7	7.7	7.7	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
>1000	8.8	10.7	10.9	10.9	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
>600	10.0	12.2	12.5	12.5	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7
>300	10.2	12.5	12.9	12.9	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
>150	10.2	12.5	12.9	12.9	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
>0	10.2	12.5	12.9	12.9	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
TOTAL	57	70	72	72	73	73	73	73	73	73	73	73	73	73	73	73

TOTAL NUMBER OF OBS: 559

PCT FREQ NH <5/8: 86.8

TABLE 7A  
PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL
	53.9	14.8	7.9	6.9	3.1	2.8	2.0	2.8	5.6	.2	6.8

PERIOD: (PRIMARY) 1949-1971  
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TABLE 8  
 PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
 PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.1	.0	.2	.0	.0	.0	.2	.3	.0	.0	.0	.7
TOT %	.1	.0	.2	.0	.0	.0	.2	.3	.0	.0	.0	.7
PCP	.0	.0	.0	.0	.2	.1	.1	.3	.0	.0	.0	.7
NO PCP	.2	.3	.1	.0	.0	.1	.8	.1	.0	.2	.2	1.7
TOT %	.2	.3	.1	.0	.2	.2	.8	.5	.0	.2	.2	2.3
PCP	.2	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.7
NO PCP	.3	1.8	.9	.1	.8	1.3	3.7	2.1	.0	1.3	.3	12.2
TOT %	.5	1.9	1.3	.1	.8	1.3	3.7	2.1	.0	1.3	.3	12.9
PCP	.2	.7	.8	.2	.0	.#	.3	.2	.0	.0	.0	2.3
NO PCP	7.0	8.9	7.5	1.9	1.7	8.9	22.7	12.8	.0	10.2	.5	61.5
TOT %	7.2	9.6	8.3	2.1	1.7	8.9	23.0	13.0	.0	10.2	.5	63.9
TOT OBS	7.9	11.7	9.8	2.2	2.6	10.4	27.7	15.8	.0	11.9	.5	59.6

PERIOD: (PRIMARY) 1948-1971  
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AREA: 0022 S. E. PERSIAN GULF  
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TABLE 9  
PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSRY (RM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR CALM	PCT TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
1/2<1	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.0	.1	.0	.0	.0	.0	.2	.0	.4
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.0	.1	.0	.0	.0	.1	.2	.0	.4
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.0	.0	.0	.0	.0	.3	.2	.0	.6
	11-21	.1	.2	.1	.0	.0	.4	.1	.2	.0	1.0
	TOT %	.2	.2	.1	.0	.1	.4	.7	.4	.0	1.6
5<10	0-3	.0	.4	.2	*	.0	.4	.0	.1	.0	2.6
	4-10	.1	.8	.7	*	.5	.6	1.9	.6	.0	5.2
	11-21	.4	.8	1.1	.2	.1	.3	1.2	.9	.0	5.1
	TOT %	.5	2.0	1.9	.3	.7	1.4	3.7	2.3	.0	14.2
10+	0-3	.8	1.1	1.0	.4	.4	.8	2.2	1.3	.0	17.5
	4-10	3.8	5.4	5.2	1.6	1.2	5.4	10.6	5.4	.0	38.6
	11-21	1.9	2.7	2.6	.5	.3	2.3	7.6	5.4	.0	23.4
	TOT %	6.5	9.2	9.2	2.5	1.9	8.5	22.3	12.2	.0	82.5
TOT OBS		7.5	11.4	11.3	2.7	2.7	10.3	26.6	15.7	.0	691
TOT PCT											100.0

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TABLE 10  
PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000	140	150	299	300	350	500	6500+	TOTAL	NH < 5/8 ANY HGT	TOTAL
00003	.0	.0	.0	.7	.0	1.4	2.6	.0	.7	.0	1.1
06009	.1	.0	.0	1.3	3.3	3.9	.7	.0	1.3	11.8	66.2
12015	.0	.0	.0	3.2	3.2	4.3	2.1	.0	1.1	16.0	84.0
18021	.0	.0	.0	.8	4.2	2.5	.8	.8	2.5	13.4	86.6
TOT	.1	.0	.0	2	9	18	21	0	3	11	74
PCT	.1	.0	.0	1.5	3.0	3.5	1.0	.5	1.8	12.3	87.7
											100.0

TABLE 11

PERCENT FREQUENCY VS8Y (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1/2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	.6	1.6	11.6	86.0	129
06009	.7	.0	.7	.0	10.6	89.0	142
12015	.0	.0	.6	1.7	11.6	86.1	173
18021	.0	.0	.0	3.5	13.9	82.6	115
TOT	1	0	3	9	66	480	559
PCT	.2	.0	.5	1.6	11.8	85.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS8Y (NM) AND/OR CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.0	.8	3.1	7.0	89.9	129
06009	.7	.7	2.8	10.6	86.6	142
12015	.0	.0	5.2	13.3	81.5	173
18021	.0	.9	5.2	11.3	83.5	115
TOT	1	3	23	60	476	559
PCT	.2	.5	4.1	10.7	85.2	100.0

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TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	90-100			
80/84	.0	.0	.2	.2	.2	.2	.0	.0			4	.6
75/79	.0	.0	.4	1.2	1.6	2.4	1.0	.2			34	6.8
70/74	.0	.6	1.0	5.6	10.8	9.8	11.8	4.8			222	44.2
65/69	.0	.0	1.6	4.6	12.7	13.1	8.0	3.2			217	43.2
60/64	.0	.0	.2	.6	1.2	1.8	.8	.8			25	5.0
TOTAL	0	3	17	51	133	137	106	45			502	100.0
PCT	.0	.6	3.4	12.2	26.5	27.3	21.1	9.0				

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP												
N	NE	E	SE	S	SW	W	NW	VAR	CALM			
.0	.0	.2	.0	.0	.0	.3	#	.0	.2			
.3	.4	1.5	.5	.0	1.1	.8	1.0	.0	1.0			
2.4	6.3	4.1	1.1	1.8	5.4	13.2	4.0	.0	5.8			
3.6	4.3	3.9	.5	.7	4.3	12.8	8.8	.0	3.6			
.6	.6	.2	.0	.0	#	1.3	1.7	.0	.4			
35	61	50	10	12	54	143	178	0	55			
7.0	12.3	10.0	2.1	2.5	10.9	28.5	15.7	.0	11.0			

TABLE 15

HOUR (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEC F) BY HOUR									
	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS	
0000	77	76	73	69	63	60	60	68.5	181	
0600	82	80	76	70	65	60	60	70.3	181	
1200	82	80	77	72	65	64	63	71.3	227	
1800	80	79	74	70	64	61	60	69.3	147	
TOT	82	79	74	70	64	62	60	70.0	736	

TABLE 16

HOUR (GMT)	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR									
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	6.8	29.5	28.0	21.0	10.6	74	132		
0600	.0	14.1	28.1	25.2	23.7	8.9	72	135		
1200	.0	25.3	25.9	21.0	20.4	7.4	70	162		
1800	.0	15.8	18.5	41.1	14.7	9.5	73	95		
TOT	0	84	137	144	112	47	72	524		



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TABLE 17

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

AIR-SEA TMP DIF	57	61	65	68	72	76	80	84	TOT	W FOG	MO FOG
9/10	.0	.0	.0	.0	.0	.0	.0	.2	4	.0	.8
7/8	.0	.0	.0	.0	.2	.6	.6	.8	7	.0	1.4
6	.0	.0	.0	.0	.0	.6	.6	.2	8	.0	1.6
5	.0	.0	.0	.0	.0	.6	.6	.0	6	.0	1.2
4	.0	.0	.0	.0	.0	.4	.4	.0	5	.0	1.0
3	.0	.0	.0	.6	1.4	.6	.6	.0	13	.0	2.5
2	.0	.0	.0	2.3	2.7	.2	.0	.0	27	.2	5.1
1	.0	.0	.0	3.7	2.9	.0	.0	.0	35	.0	6.8
0	.0	.0	1.2	5.1	3.7	.0	.0	.0	51	.0	10.0
-1	.0	.0	2.1	7.6	2.3	.2	.0	.0	63	.0	12.3
-2	.0	.0	3.9	5.3	1.4	.2	.0	.0	55	.2	10.5
-3	.0	.2	4.1	7.6	.8	.0	.0	.0	59	.0	11.5
-4	.0	1.0	5.1	5.7	.4	.0	.0	.0	53	.0	10.4
-5	.0	.0	3.9	2.3	.0	.0	.0	.0	43	.2	8.2
-6	.0	.0	4.1	1.4	.0	.0	.0	.0	27	.0	5.3
-7/-8	.4	1.0	4.1	1.6	.0	.0	.0	.0	35	.0	6.8
-9/-10	.4	1.6	1.2	.0	.0	.0	.0	.0	16	.0	3.1
-11/-13	.2	.8	.0	.0	.0	.0	.0	.0	5	.0	1.0
TOTAL	.8	4.5	28.7	43.4	18.0	4.3	.2	.2	512	.3	502
PCT									100.0	.6	99.4

PE41001 (PRIMARY)  
(OVER-ALL) 1963-1971

FEBRUARY

TABLE 18

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.6E

PCT FREQ CF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (PT)

HGT	N					NE					48+	PCT	
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33			34-47
<1	.8	2.3	.0	.0	.0	.0	.8	.8	.0	.0	.0	.0	1.5
1-2	.0	1.1	2.1	.0	.0	.0	.8	2.1	1.7	.0	.0	.0	4.5
3-4	.0	2.3	.0	.0	.0	.0	.0	.2	2.3	.0	.0	.0	2.4
5-6	.0	.0	1.1	.0	.0	.0	.0	1.5	.8	.0	.0	.0	2.3
7	.0	.0	.6	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	5.6	3.5	.0	.0	.0	1.5	4.5	4.9	.0	.0	.0	10.9

HGT	E					SE					48+	PCT	
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33			34-47
<1	.0	1.5	.0	.0	.0	.0	.8	.2	.0	.0	.0	.0	.2
1-2	.0	4.1	.8	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
3-4	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.2	2.8	.0	.0	.0	.8	.2	.2	.0	.0	.0	1.1

PERIODS (PRIMARY)  
(OVER-ALL) 1963-1971

FEBRUARY

TABLE 18

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.6E

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

HGT	S				NW				TOT PCT					
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3		4-10	11-21	22-33	34-47	48+
<1	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0
1-2	.0	2.1	.0	.0	.0	.0	2.6	.0	.0	3.9	.0	.0	.0	4.2
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.0	.0	.0	3.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.2	.0	.0	.0	.0	3.8	.2	.2	6.0	1.3	.2	.0	7.7

HGT	S				NW				TOT PCT					
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3		4-10	11-21	22-33	34-47	48+
<1	2.8	3.2	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	1.1
1-2	.8	10.9	3.9	.0	.0	.0	15.6	.0	.0	4.3	1.9	.0	.0	6.2
3-4	.0	3.9	2.6	.0	.0	.0	7.3	.8	.8	1.1	4.3	.0	.0	6.4
5-6	.0	1.3	3.4	.0	.0	.0	5.3	.0	.0	1.7	3.8	.0	.0	5.5
7	.0	.0	1.8	.0	.0	.0	1.9	.0	.0	.0	.2	.0	.0	1.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.6	19.4	10.7	2.8	.6	.0	37.0	.8	.8	8.3	10.3	.8	.2	20.3

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.6E

FEBRUARY

PERIOD: (PRIMARY)  
(COVER-ALL) 1963-1971

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TUT DBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT				
<1	21.1	8.1	.0	.0	.0	.0	23.2				
1-2	1.2	24.2	9.3	.0	.0	.0	34.8				
3-4	.6	8.7	8.7	.6	.0	.0	18.6				
5-6	.0	3.7	8.7	.6	.0	.0	13.0				
7	.0	.0	1.9	1.2	.6	.0	3.7				
8-9	.0	.0	.0	.6	.0	.0	.6				
10-11	.0	.0	.0	.0	.0	.0	.0				
12	.0	.0	.0	.0	.0	.0	.0				
13-15	.0	.0	.0	.0	.0	.0	.0				
17-19	.0	.0	.0	.0	.0	.0	.0				
20-21	.0	.0	.0	.0	.0	.0	.0				
23-25	.0	.0	.0	.0	.0	.0	.0				
26-31	.0	.0	.0	.0	.0	.0	.0				
33-43	.0	.0	.0	.0	.0	.0	.0				
41-43	.0	.0	.0	.0	.0	.0	.0				
49-63	.0	.0	.0	.0	.0	.0	.0				
61-73	.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	23.0	44.7	28.4	3.1	.6	.0	100.0				161

TABLE 19

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

PERIOD (SEC)	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)										87+ TOTAL	MEAN HGT											
	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-15	17-19			20-22	23-25	26-32	33-60	41-48	49-60	61-70	71-86			
<1	9.3	26.9	15.0	4.5	1.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	
<6	.0	.2	3.1	3.8	1.7	1.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.9
6-7	.0	.0	.7	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12-13	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
INDEX	21.4	3.8	1.7	1.0	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	129	130	92	41	18	9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120
PCT	30.7	31.0	21.9	9.8	4.3	2.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

PERIOD: (PRIMARY) 1948-1971  
(COVER-ALL) 1870-1971

MARCH

APEA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 1  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN		ORZL	PRECIPITATION TYPE				HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA						TOTAL OBS
	SHWR	SHWR		FRZG	SNOW	OTHER	FRZN					PCPN	FOG	SMOKE	DUST	NO	HAZE	
N	.5	.0	.2	.0	.0	.0	.0	.0	.7	4	.0	.1	.3	.1	.1	.1	3.8	33
NE	.2	.0	.3	.0	.0	.0	.0	.0	.8	5	.2	.2	.8	.2	.2	.2	5.9	53
E	.1	.0	.0	.0	.0	.0	.0	.0	.1	0	.1	.1	.9	.0	.0	.0	5.8	47
SE	.2	.0	.0	.0	.0	.0	.0	.0	.2	1	.0	.2	.0	.0	.0	.0	3.6	25
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.5	.0	.0	.0	5.2	38
SW	.1	.0	.0	.0	.0	.0	.0	.0	.1	0	.0	.2	1.3	.2	.2	.6	14.5	120
W	.2	.0	.0	.0	.0	.0	.0	.0	.3	2	.2	.1	1.5	.2	.2	.6	27.7	202
WV	.2	.2	.2	.0	.0	.0	.0	.0	.5	3	.0	.1	.5	.2	.2	.2	9.6	72
VAR	.0	.0	.2	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.2	.0	.5	.0	.0	.0	.0	.0	.6	4	.0	.0	1.2	.2	.2	.2	10.4	82
TOT OBS	12	2	7	0	0	0	0	0	3.2	21	3	5	4.6	11	11	11	57.8	665
TOT PCT	1.8	.3	1.1	.0	.0	.0	.0	.0	3.2	21	.5	.9	6.9	1.7	1.7	1.7	86.9	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN		ORZL	PRECIPITATION TYPE				HAIL	PCT FREQ PCPN AT OBS	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA						TOTAL OBS
	SHWR	SHWR		FRZG	SNOW	OTHER	FRZN					PCPN	FOG	SMOKE	DUST	NO	HAZE	
0000	2.6	1.0	.5	.0	.0	.0	.0	.0	4.2	8	1.6	.5	6.3	1.0	1.0	1.0	86.4	191
0600	2.2	.0	1.7	.0	.0	.0	.0	.0	3.9	7	.0	.6	8.3	2.2	2.2	2.2	85.0	180
1200	1.5	.0	1.0	.0	.0	.0	.0	.0	2.6	5	.0	1.5	5.6	2.1	2.1	2.1	88.2	195
1800	1.7	.0	1.4	.0	.0	.0	.0	.0	2.1	3	.7	6.3	.7	.7	.7	.7	89.6	144
TOT	13	2	8	0	0	0	0	0	23	23	4	6	47	11	11	11	619	710
PCT	1.8	.3	1.1	.0	.0	.0	.0	.0	3.2	23	.6	.8	6.6	1.5	1.5	1.5	87.2	100.0

PERIODS (PRIMARY) 1948-1971 AREA 0022 S. E. PERSIAN GULF  
 (OVER-ALL) 1870-1971 26.1N 54.7E

MARCH  
 TABLE 3  
 PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.0	2.3	1.7	.4	.0	.0	43	5.3	9.4	4.9	14.8	3.8	2.2	4.1	3.2	8.8	6.7
NE	1.3	5.1	1.9	.2	.0	.0	69	8.5	8.3	9.6	14.8	12.0	6.5	6.9	5.8	4.4	10.0
E	1.1	4.5	1.1	.1	.0	.0	55	6.8	7.7	3.6	5.6	11.1	9.4	8.7	2.5	5.3	.0
SE	1.0	1.8	1.0	.0	.0	.0	30	3.7	7.1	3.0	.0	5.3	2.8	4.5	2.3	3.2	3.3
S	1.9	3.4	1.3	.0	.0	.0	53	6.6	6.6	4.9	8.3	6.9	9.4	9.9	7.0	2.7	5.0
SW	2.1	9.0	5.1	.2	.0	.0	138	17.0	9.1	11.1	6.5	16.7	32.1	21.2	29.1	12.8	13.3
W	2.6	13.4	10.5	2.3	.0	.0	234	28.9	11.5	30.2	11.1	24.5	19.8	29.9	31.4	35.9	35.0
NW	1.2	6.7	2.8	.6	.0	.0	91	11.3	9.6	13.7	16.7	8.9	5.7	7.2	8.1	17.7	16.7
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	11.8	379	206	31	1	0	90	11.8	8.0	19.1	22.2	10.6	9.4	7.6	9.3	7.2	10.0
TOT OBS	194	45.7	25.4	3.8	.1	.0	811	100.0	8.4	183	27	100	53	184	43	131	30
TOT PCT	23.9	45.7	25.4	3.8	.1	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)					
	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.4	2.1	.7	.1	.0	43	5.3	9.4	6.2	6.2	3.5	4.0	6.4	6.4	6.4	6.4
NE	3.9	3.8	.8	.0	.0	69	8.5	8.3	10.2	10.2	11.2	6.7	5.4	5.4	5.4	5.4
E	2.2	2.0	.5	.0	.0	55	6.8	7.7	3.8	3.8	10.7	7.7	4.2	4.2	4.2	4.2
SE	2.2	1.4	.2	.0	.0	30	3.7	7.1	2.6	2.6	4.8	4.1	3.3	3.3	3.3	3.3
S	4.6	1.6	.4	.0	.0	53	6.6	6.6	5.4	5.4	7.5	9.4	3.1	3.1	3.1	3.1
SW	6.7	8.9	1.4	.1	.0	138	17.0	9.1	10.5	10.5	20.5	22.7	12.9	12.9	12.9	12.9
W	7.1	13.0	4.7	1.0	.0	234	28.9	11.5	27.7	23.4	20.2	35.7	35.7	35.7	35.7	35.7
NW	4.2	5.4	1.6	.1	.0	91	11.3	9.6	14.0	14.0	8.1	7.2	17.5	17.5	17.5	17.5
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	11.8	342	64	10	8	96	11.8	8.0	19.1	19.1	10.6	7.6	9.3	9.3	9.3	9.3
TOT OBS	375	42.1	10.4	1.2	.0	811	100.0	8.4	210	213	227	161	161	161	161	161
TOT PCT	46.2	42.1	10.4	1.2	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1870-1971

TABLE 4

HOUR	CALM	PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)					PCT DBS	TOTAL DBS		
		1-3	4-10	11-21	22-33	34-47				
0000	19.1	9.0	38.6	27.1	5.2	.5	.0	8.3	100.0	210
0600	10.3	12.7	53.5	21.6	1.9	.0	.0	7.7	100.0	213
1200	7.5	14.5	46.3	26.4	4.8	.0	.0	8.8	100.0	227
1800	9.3	11.8	49.1	26.7	3.1	.0	.0	8.9	100.0	161
TOT	96	98	379	206	31	1	0	8.4		811
PCT	11.8	12.1	46.7	25.4	3.8	.1	.0	100.0		

TABLE 5

WIND DIR	PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION							TOTAL DBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-10	11-15	16-20	21-25		
N	2.2	.5	.5	1.0	2.4	3.2	3.0	24	3.2
NE	3.4	.7	1.8	1.5	4.2	3.0	3.0	42	3.0
E	4.0	.7	1.3	.7	3.8	2.6	2.6	38	2.6
SE	2.1	.1	.7	.6	2.0	2.9	2.8	20	2.9
S	3.8	.5	1.6	.4	3.6	2.2	2.2	36	2.2
SW	10.3	3.1	2.9	.5	9.6	1.7	1.7	96	1.7
W	22.7	3.0	4.2	1.4	17.9	2.3	2.3	179	2.3
NW	7.7	.6	2.3	1.1	5.6	2.3	2.3	56	2.3
VAR	.0	.0	.0	.0	0	.0	.0	0	.0
CALM	7.8	1.7	1.6	1.0	7.0	2.1	2.1	70	2.1
TOT DBS	367	62	197	48	574	2.3	2.3	574	
TOT PCT	63.9	10.8	16.9	8.4	100.0				

TABLE 6

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8 AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION										TOTAL DBS	
	000	150	300	600	1000	2000	3500	5000	6500	8000+		ANY <5/8
N	.0	.0	.0	.0	.2	.2	.0	.0	.0	.2	.2	24
NE	.0	.0	.0	.0	.3	.3	.0	.2	.6	.5	.5	42
E	.0	.0	.0	.0	.0	.0	.3	.2	.0	.0	.0	32
SE	.0	.0	.0	.0	.0	.2	.0	.2	.0	.2	.2	20
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	36
SW	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.2	96
W	.0	.0	.0	.0	.0	.7	.1	.2	.6	.6	.6	179
NW	.0	.0	.0	.0	.3	.1	.2	.3	.3	.1	.1	66
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.2	.0	.0	.0	.2	.2	.5	.2	.3	.3	70
TOT DBS	0	1	0	0	5	11	10	9	11	14	14	574
TOT PCT	.0	.2	.0	.0	.9	1.9	1.7	.5	1.6	1.9	2.4	88.9
												100.0

PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1870-1971

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TABLE 7

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

CEILING (FEET)	° OR		° OR		° OR		° OR		° OR	
	>10	>5	>2	>1	>1/2	>1/4	>50YO	>0	>0	>0
OR >6500	3.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
OR >5000	4.4	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
OR >3500	5.1	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
OR >2000	6.4	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
OR >1000	7.9	9.8	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
OR >600	7.9	10.7	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
OR >300	7.9	10.7	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
OR >150	7.9	10.6	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
OR >0	7.9	10.8	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
TOTAL	48	66	67	67	67	67	67	67	67	67

TOTAL NUMBER OF OBS: 610

PCT FREQ NH <5/8: 89.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCO	TOTAL
SR	12.6	8.4	4.6	3.2	2.4	2.5	3.1	4.4	.0	680	



PERIOD1 (PRIMARY) 1968-1971  
 (OVER-ALL) 1870-1971

MARCH

AREA 0022 S. E. PERSIAN GULF  
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TABLE 8  
 PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OF NON-OCCURRENCE OF  
 PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2
TOT %	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
TOT %	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
TOT %	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
PCP	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2
NO PCP	.3	.0	.0	.0	.0	.6	1.4	*	.0	.0	.3	2.6
TOT %	.3	.0	.0	.0	.0	.7	1.4	*	.0	.0	.3	2.7
PCP	.3	.3	.0	.2	.0	.0	.0	.2	.0	.0	.0	.9
NO PCP	.9	1.5	.8	.8	.9	2.5	5.0	2.4	.0	2.3	.0	17.0
TOT %	1.2	1.8	.8	.9	.9	2.5	5.0	2.6	.0	2.3	.0	17.9
PCP	.4	.5	.1	.0	.0	.0	.2	.4	.0	.5	.0	2.0
NO PCP	3.2	5.6	6.2	2.9	4.9	13.4	23.6	7.9	.0	9.2	.0	77.0
TOT %	3.5	6.1	6.3	2.9	4.9	13.4	23.9	8.3	.0	9.7	.0	78.9
TOT OBS	5.0	8.1	7.1	3.9	3.7	16.6	30.5	10.9	.0	12.2	.0	66.4
TOT PCT												

PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1670-1971

MARCH

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 9

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

VSBY (NM)	SPO KTS	N	NE	E	SE	S	SW	N	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0	
2<5	0-3	.1	.0	.0	.0	.0	.3	.2	*	.0	.4	1.0	.0
	4-10	.1	.0	.0	.0	.2	.5	.5	.1	.0	.0	.8	.0
	11-21	.0	.0	.0	.0	.2	.6	.6	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.2	.0	.0	.0	.7	1.3	1.3	.1	.0	.0	.4	2.7	.0
5<10	0-3	.1	.1	.1	.0	.3	.3	.1	.2	.0	2.1	3.4	.0
	4-10	.4	.9	.5	.4	.4	1.3	1.6	1.0	.0	.0	6.5	.0
	11-21	.3	.9	.3	.4	.1	.5	2.1	1.1	.0	.0	5.8	.0
	22+	.2	.0	.0	.0	.0	.0	.6	.1	.0	.0	.9	.0
TOT %	1.0	1.9	.9	.8	.8	2.2	4.5	4.5	2.4	.0	2.1	16.6	.0
10+	0-3	.5	1.1	1.1	.9	1.5	1.4	2.0	.8	.0	9.4	18.7	.0
	4-10	1.6	4.1	3.1	1.4	2.7	8.3	11.7	5.8	.0	.0	39.7	.0
	11-21	1.2	.7	.7	.6	1.3	4.5	8.2	1.7	.0	.0	18.8	.0
	22+	.3	.2	.1	.0	.2	.2	1.8	.4	.0	.0	3.0	.0
TOT %	3.6	6.1	6.0	2.9	5.5	14.4	22.8	22.8	8.7	.0	9.4	60.2	.0
TOT OBS													764
TOT PCT		4.0	8.1	6.9	3.7	6.3	17.3	29.6	11.2	.0	11.9	100.0	

MARCH  
 AREA 0022 S. E. PERSIAN GULF  
 26.1N 54.7E

TABLE 10

PERIOD: (PRIMARY) 1948-1971  
 (COVER-ALL) 1870-1971

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

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL ANY HGT	NH <5/8 ANY HGT	TOTAL DBS
00003	.0	.0	.0	1.8	2.9	1.8	.6	.0	1.2	1.8	10.0	92.0	170
06009	.0	.6	.0	.6	2.3	2.3	1.1	2.3	2.3	2.9	14.6	85.6	174
12015	.0	.0	.0	.0	.5	1.1	.5	2.7	2.2	2.2	9.3	90.7	183
18021	.0	.0	.0	.0	.7	.7	.7	.7	.7	1.5	5.9	94.1	136
TOT	0	1	2	5	11	10	5	10	11	14	67	596	663
PCT	.0	.2	.0	.8	1.7	1.5	.8	1.5	1.7	2.1	10.1	89.9	100.0

TABLE 11

PERCENT FREQUENCY VS8Y (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<4	4<5	5<10	10+	TOTAL DBS
00003	.0	.0	.0	1.3	13.6	85.1	134	134	134
06009	.0	.0	.0	3.1	19.8	77.2	162	162	162
12015	.0	.0	.0	1.9	13.5	84.7	163	163	163
18021	.0	.0	.0	3.1	11.5	85.5	131	131	131
TOT	0	0	0	14	90	506	610	610	610
PCT	.0	.0	.0	2.3	14.8	83.0	100.0	100.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS8Y (NH) AND/OR CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150	<600	<1000	1000+	NH <5/8 AND 5+	TOTAL DBS
00003	.0	.0	3.2	9.1	87.7	154
06009	.0	.6	4.3	13.6	82.1	162
12015	.0	.0	1.8	10.4	87.7	163
18021	.0	.0	3.8	5.3	90.6	131
TOT	0	1	20	60	530	610
PCT	.0	.2	3.3	9.8	86.9	100.0

MARCH

PERIOD: (PRIMARY) 1949-1971  
(OVER-ALL) 1870-1971

AREA 0022 S. E. PERSIAN GULF  
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TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100				
80/64	.0	.0	.0	.5	1.2	1.4	1.4	.5	.2		22	3.9
75/79	.0	.2	.5	2.5	5.5	9.8	5.7	5.4	3.4		155	27.6
70/74	.0	.2	.5	5.2	9.3	17.1	16.2	8.7	5.7		321	57.1
65/69	.0	.0	.4	.2	1.4	3.4	3.2	1.1	1.1		54	9.6
60/64	.0	.0	.0	.0	.2	.5	1.1	.0	.0		10	1.8
TOTAL	0	2	8	47	99	181	150	75	33		562	100.0
PCT	.0	.4	1.4	8.4	17.6	32.2	26.7	13.3	6.7			

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP												
	N	NE	E	SE	S	SW	W	NW	VAR	CALR		
	.2	.4	.7	.2	.3	.7	.8	.0	.0	.7		
	1.1	2.2	2.6	2.0	2.8	5.1	6.5	1.5	.0	3.7		
	2.5	3.6	3.2	1.5	3.2	10.8	18.1	7.1	.0	7.3		
	.9	.1	.0	.5	.4	1.8	3.5	1.1	.0	1.4		
	.2	.7	.0	.0	.0	.2	.7	.0	.0	.0		
	27	40	36	23	37	104	165	54	0	74		
	4.8	7.1	6.5	4.1	6.6	18.5	29.5	9.7	.0	13.2		

TABLE 15

HOURL (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL OBS
	MAX	99%	95%	50%	5%	1%	MIN	MEAN			
00003	82	80	76	71	65	61	61	71.1	223		
06009	88	83	79	73	68	66	64	73.8	218		
12015	87	85	82	75	69	64	62	74.9	234		
18021	81	79	77	72	66	64	63	72.1	170		
TOT	80	83	79	73	67	64	61	73.0	845		

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR												
HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN			
00003	.0	.0	4.8	7.8	22.9	41.0	23.5	81	166			
06009	.0	9.2	20.9	30.6	20.9	12.4	75	153				
12015	.0	15.2	25.5	35.2	16.4	7.9	72	165				
18021	.0	10.4	12.2	22.2	33.0	12.2	77	115				
TOT	0	59	101	189	165	85	76	599				

PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1870-1971

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24.0 IN 54.7E

TABLE 17

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

AIR-SEA TMP DIF	61	65	69	73	77	81	85	TOT	N	MO
	64	68	72	76	80	84	88		FDG	FDG
11/12	.0	.0	.0	.3	.2	.3	.5	8	.2	1.2
9/10	.0	.0	.0	.6	.0	.3	.2	3	.0	.5
7/8	.0	.0	.0	.2	.3	1.3	.0	17	.0	2.0
6	.0	.0	.0	.3	1.3	.2	.0	11	.0	1.8
5	.0	.0	.0	.8	1.7	.7	.0	19	.0	3.2
4	.0	.5	.5	2.2	2.2	.5	.0	20	.2	5.2
3	.0	.0	1.2	4.4	2.7	.0	.0	31	.0	8.1
2	.0	.0	3.2	6.2	2.2	.0	.0	49	.2	13.1
1	.0	.2	5.2	7.7	.0	.0	.0	57	.0	19.6
0	.0	.2	4.4	5.2	.0	.0	.0	79	.2	13.1
-1	.0	1.0	5.4	4.5	.3	.0	.0	58	.0	9.8
-2	.0	.7	4.5	2.5	.0	.0	.0	67	.0	11.3
-3	.3	1.2	4.9	1.3	.0	.0	.0	46	.0	7.7
-4	.2	1.3	4.0	.8	.0	.0	.0	46	.0	7.7
-5	.0	.7	3.4	.0	.0	.0	.0	38	.2	6.2
-6	.0	.5	2.0	.0	.0	.0	.0	24	.0	6.0
-7/-8	.3	.8	.0	.0	.0	.0	.0	18	.0	3.0
-9/-10	.0	.2	.0	.0	.0	.0	.0	7	.0	1.2
-11/-13	.9	4.0	2.8	2.2	.79	.22	.4	1	.0	.2
TOTAL	1.3	6.7	36.7	37.4	13.3	3.7	.7	594	.5	589
PCT								100.0	.8	89.2

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

MARCH  
TABLE 18

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

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

HGT	N			NE			48+	PCT
	1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.6	.0	.0	.0	.0	.0	1.1
1-2	.0	.6	.0	.0	.0	.0	.0	1.7
3-4	.0	1.5	.9	.0	.0	.0	.0	2.6
5-6	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0
13-15	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.8	.9	.0	.0	3.6	.0	5.3

HGT	E			SE			48+	PCT
	1-3	4-10	11-21	22-33	34-47	48+		
<1	.9	.6	.0	.0	.0	.0	.0	1.1
1-2	.0	.6	.6	.0	.0	.0	.0	4.9
3-4	.0	.9	.9	.0	.0	.0	.0	.0
5-6	.0	.9	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	3.0	1.5	.0	.0	4.7	.0	6.8

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

MARCH  
TABLE 18

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

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

HGT	S					48+	PCT	SW					48+	PCT
	1-3	4-10	11-21	22-33	34-47			1-3	4-10	11-21	22-33	34-47		
<1	1.3	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	3.2
1-2	.9	4.1	.0	.0	.0	.0	4.9	.0	.0	.0	.0	.0	.0	12.6
3-4	.0	.0	.9	.0	.0	.0	.9	.0	7.3	5.3	.0	.0	.0	6.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	2.6	3.4	.0	.0	.0	2.8
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.4	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.6	.0	.0	.0	.6	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.1	4.1	1.5	.0	.0	.0	7.7	.0	2.1	11.8	10.7	.4	.0	25.0

HGT	W					48+	PCT	NW					48+	PCT
	1-3	4-10	11-21	22-33	34-47			1-3	4-10	11-21	22-33	34-47		
<1	2.1	.6	.6	.0	.0	.0	3.4	.0	1.3	.0	.0	.0	.0	1.5
1-2	.0	6.8	4.1	.0	.0	.0	10.9	.0	4.9	.0	.0	.0	.0	4.9
3-4	.0	2.4	8.1	.9	.0	.0	11.3	.0	1.1	3.0	.0	.0	.0	4.1
5-6	.0	.0	2.8	2.1	.0	.0	4.9	.0	.0	.9	.0	.0	.0	.9
7	.0	.0	.9	1.7	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.9	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.1	9.8	17.3	4.7	.0	.0	34.0	.0	.2	6.1	3.8	.0	.0	12.2

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

MARCH

AREA 0022 S. E. PERSIAN GULF  
26 JUN 54.7E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOT OBS
	6-3	4-10	11-21	22-33	34-47	48+	PCT				
<1	20.3	5.8	.7	.0	.0	.0	26.8				
1-2	.7	24.6	10.1	.0	.0	.0	35.5				
3-4	.0	8.7	13.9	.7	.0	.0	25.4				
5-6	.0	1.4	4.3	2.2	.0	.0	8.0				
7	.0	.0	.7	1.4	.0	.0	2.2				
8-9	.0	.7	.7	.0	.0	.0	1.4				
10-11	.0	.0	.7	.0	.0	.0	.7				
12	.0	.0	.0	.0	.0	.0	.0				
13-16	.0	.0	.0	.0	.0	.0	.0				
17-19	.0	.0	.0	.0	.0	.0	.0				
20-22	.0	.0	.0	.0	.0	.0	.0				
23-25	.0	.0	.0	.0	.0	.0	.0				
26-32	.0	.0	.0	.0	.0	.0	.0				
33-40	.0	.0	.0	.0	.0	.0	.0				
41-48	.0	.0	.0	.0	.0	.0	.0				
49-60	.0	.0	.0	.0	.0	.0	.0				
61-70	.0	.0	.0	.0	.0	.0	.0				
71-86	.0	.0	.0	.0	.0	.0	.0				
87+	.0	.0	.0	.0	.0	.0	.0				
TOT PCT	21.0	41.3	33.3	4.3	.0	.0	100.0				138

TABLE 19

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

PERIOD (SEC)	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)										TOTAL	MEAN HGT											
	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19			20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86			
<1	16.8	25.9	16.1	3.1	.8	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	269	2
6-7	.2	.8	3.8	3.1	.8	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	46	4
8-9	.0	.0	.0	.4	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	7
10-11	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
INDST	26.6	4.8	.8	.6	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	159	1
TOTAL	170	151	100	35	15	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	478	2
PCT	35.6	31.6	20.9	7.3	3.1	.8	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	0



APRIL

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

PERIOD: (PRIMARY) 1949-1971  
(OVER-ALL) 1064.1971

TABLE 1  
WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA										TOTAL OBS
	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER	FRZN PCPN	HAIL	PCT FRO PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	FOG MD	SHRKR MD	HAZE	BLWG	DUST	NO SIG WEA	NO SIG WEA	TOTAL OBS			
N	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21			
NE	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24			
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28			
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17			
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	36			
SW	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	86			
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	156			
NW	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	71			
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0			
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	61			
TOT OBS	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	314			
TOT PCT	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0			

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA										TOTAL OBS
	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER	FRZN PCPN	HAIL	PCT FRO PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	FOG MD	SHRKR MD	HAZE	BLWG	DUST	NO SIG WEA	NO SIG WEA	TOTAL OBS			
0000Z	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	142			
0600Z	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	157			
1200Z	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	134			
1800Z	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	115			
TOT	4	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	550			
PCT	.7	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	100.0			

APRIL

AREA 0022 S. E. PERSIAN GULF  
26.01N 54.7E

PERIOD: (PRIMARY) 1949-1971  
(OVER-ALL) 1864-1971

TABLE 3  
PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										WIND DIRECTION BY SPEED AND BY HOUR											
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	CO	03	06	09	12	15	18	21					
N	1.0	2.0	.9	.0	.0	.0	25	4.0	7.8	4.2	.0	5.8	.0	5.3	4.2	2.9	2.1					
NE	1.2	3.1	.5	.0	.0	.0	26	4.7	6.4	6.5	4.2	5.9	14.5	2.3	.0	1.9	6.3					
E	1.4	3.5	1.7	.0	.0	.0	40	6.6	7.9	6.2	4.2	11.2	4.8	5.1	2.1	6.7	.0					
SE	1.9	2.4	.1	.0	.0	.0	20	3.4	5.3	1.6	4.2	6.1	3.2	3.4	10.4	1.7	.0					
S	1.6	4.4	1.5	.2	.0	.0	46	7.6	7.6	5.6	4.2	10.1	8.1	10.5	8.3	4.6	2.1					
SW	1.9	10.5	4.7	.3	.0	.0	105	17.4	9.0	13.2	16.7	16.0	21.0	23.7	20.8	14.7	19.8					
W	3.3	16.6	10.0	.8	.0	.0	187	30.9	9.9	31.0	16.7	18.8	27.2	34.6	37.5	42.1	38.5					
NW	1.4	7.2	4.5	.2	.0	.0	81	13.5	9.8	18.3	25.0	14.0	11.3	7.0	4.2	13.9	22.9					
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
CALC	11.9	30.1	14.6	1.0	.0	.0	72	11.9	7.8	12.4	25.0	13.2	12.9	8.3	12.3	11.5	8.3					
TOT OBS	149	301	24.1	1.7	.0	.0	606	100.0	7.8	142	12	136	31	133	24	104	24					
TOT PCT	24.6	49.7	24.1	1.7	.0	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0					

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)												WIND DIRECTION BY SPEED AND BY HOUR											
	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	CO	03	06	09	12	15	18	21								
N	1.9	1.8	.0	.0	.0	24	4.0	7.8	3.9	3.9	3.9	5.1	2.7	2.7	2.7	2.7								
NE	2.8	2.0	.0	.0	.0	28	4.7	6.4	6.3	6.3	7.5	1.9	2.7	2.7	2.7	2.7								
E	2.8	3.4	.3	.0	.0	40	6.6	7.9	6.0	6.0	10.0	4.6	5.3	5.3	5.3	5.3								
SE	2.4	1.0	.0	.0	.0	20	3.4	5.3	1.8	1.8	3.5	4.4	1.4	1.4	1.4	1.4								
S	3.9	2.4	.3	.0	.0	46	7.6	7.6	5.5	5.5	9.7	10.2	4.1	4.1	4.1	4.1								
SW	6.8	9.0	1.4	.0	.0	105	17.4	9.0	13.5	13.5	16.9	23.2	15.6	15.6	15.6	15.6								
W	10.0	16.4	4.4	.1	.0	187	30.9	9.9	25.9	25.9	19.8	35.0	41.4	41.4	41.4	41.4								
NW	4.7	6.8	1.7	.0	.0	81	13.5	9.8	15.8	15.8	13.5	6.5	15.6	15.6	15.6	15.6								
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0								
CALC	11.9	26.6	5.3	.0	.0	72	11.9	7.8	14.2	14.2	13.2	8.9	10.9	10.9	10.9	10.9								
TOT OBS	286	43.9	8.7	.2	.0	606	100.0	7.8	154	167	157	126	126	126	126	126								
TOT PCT	47.2	43.9	8.7	.2	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0								

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

APRIL

PERIOD: (PRIMARY) 1949-1971  
(OVER-ALL) 1864-1971

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (CNT)

HOUR	CALM	1-3			4-10			WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-20	21-30	31-47								
0000	14.3	13.0	44.2	27.3	1.2	.0	.0	8.1	100.0	154				
0600	13.2	15.6	52.7	16.8	1.8	.0	.0	7.0	100.0	167				
1215	8.9	10.8	52.9	26.8	.6	.0	.0	8.2	100.0	157				
1821	10.9	10.9	48.4	26.6	3.1	.0	.0	8.2	100.0	120				
TOT	72	77	301	346	10	.0	.0	7.8	100.0	606				
PCT	11.9	12.7	49.7	24.1	1.7	.0	.0							

TABLE 5

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

WIND DIR	PCT FREQ						TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-6	0800	0800		
N	2.6	.2	.8	.2	18	2.6	18	
NE	2.9	.4	.9	.8	20	3.0	20	
E	4.0	.7	2.4	.4	34	2.8	34	
SE	2.0	.5	.3	.1	14	2.1	14	
S	9.0	.2	.9	1.0	37	2.1	37	
SW	13.4	1.9	1.6	1.2	63	1.7	63	
W	21.7	2.2	3.3	2.4	136	1.7	136	
NW	9.7	.2	2.0	.7	61	1.7	61	
VAR	.0	.0	.0	.0	0	.0	0	
CALM	9.4	.9	.7	1.1	55	1.4	55	
TOT OBS	326	36	60	37	459	1.9	459	
TOT PCT	71.0	7.8	13.1	8.1	100.0			

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH 24/8  
AND OCCURRENCE OF NH <512 BY WIND DIRECTION

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH 24/8										TOTAL OBS
	0-2	3-4	5-7	8-6	0800	0800	0800	0800	0800	0800	
N	.2	.4	.2	.8	.2	.2	.2	.2	.2	.2	18
NE	.4	.7	.9	.4	.2	.2	.2	.2	.2	.2	20
E	.7	.5	2.4	.1	.2	.2	.2	.2	.2	.2	34
SE	.5	.2	.3	.1	.1	.1	.1	.1	.1	.1	14
S	.2	.2	.9	1.0	.2	.2	.2	.2	.2	.2	37
SW	1.9	1.9	1.6	1.2	.2	.2	.2	.2	.2	.2	63
W	21.7	2.2	3.3	2.4	.2	.2	.2	.2	.2	.2	136
NW	9.7	.2	2.0	.7	.2	.2	.2	.2	.2	.2	61
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	9.4	.9	.7	1.1	.2	.2	.2	.2	.2	.2	55
TOT OBS	326	36	60	37	459	499	6499	7999	8000+	8000+	459
TOT PCT	71.0	7.8	13.1	8.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0

AREA 0022 S. E. PERSIAN GULF  
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APRIL

PERIOD: (PRIMARY) 1949-1971  
(OVER-ALL) 1869-1971

TABLE 7

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

CEILING (FEET)	VSBY (NM)							
	OR >10	OR >5	OR >2	OR >1	OR >1/2	OR >1/4	OR >50YO	OR >0
OR >6500	3.1	3.9	3.9	3.9	3.9	3.9	3.9	3.9
OR >5000	3.5	4.3	4.3	4.3	4.3	4.3	4.3	4.3
OR >3500	5.7	6.8	6.8	6.8	6.8	6.8	6.8	6.8
OR >2000	7.0	8.4	8.4	8.4	8.4	8.4	8.4	8.4
OR >1000	8.8	10.5	10.5	10.5	10.5	10.5	10.5	10.5
OR >600	10.0	11.9	11.9	11.9	12.1	12.1	12.1	12.1
OR >300	10.2	12.1	12.1	12.1	12.3	12.3	12.3	12.3
OR >150	10.5	12.3	12.3	12.3	12.5	12.5	12.5	12.5
OR >0	10.5	12.3	12.3	12.3	12.5	12.5	12.5	12.5
TOTAL	51	60	60	60	61	61	61	61

TOTAL NUMBER OF OBS: 488 PCT FREQ (NH < 5/8): 87.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL
	67.5	12.2	4.3	1.9	1.5	2.3	3.5	2.7	4.1	0
										517

PERIOD: (PRIMARY) 1949-1971  
(OVER-ALL) 1864-1971

APRIL

AREA 0022 S. E. PERSIAN GULF  
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TABLE 8

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

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	.2
	TOT %	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	.2
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.1	.1	.0	.4	.2	.0	.0	.R	.R
	TOT %	.0	.0	.1	.1	.0	.4	.2	.0	.0	.R	.R
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.5	.2	.2	.0	.0	.4	.4	.0	.0	.2	2.1
	TOT %	.5	.2	.2	.0	.0	.4	.4	.0	.0	.2	2.1
5<10	PCP	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
	NO PCP	.6	.5	2.3	.3	1.3	2.9	3.7	3.1	.0	1.8	16.3
	TOT %	.6	.5	2.3	.3	1.3	2.9	3.7	3.3	.0	1.8	16.3
10	PCP	.1	.1	.0	.0	.2	.0	.0	.0	.0	.0	.4
	NO PCP	3.0	3.9	5.0	3.0	5.9	13.6	25.8	9.8	.0	5.9	80.0
	TOT %	3.1	4.0	5.0	3.0	5.9	13.8	25.8	9.8	.0	5.9	80.4
TOT OBS	4.2	4.7	7.9	3.5	7.1	16.9	30.4	13.9	.0	1.9	100.0	
TOT PCT												514

PERIOD: (PR: 123) 1969-1971  
(OVER-ALL) 1864-1971

APRIL

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 9

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

USBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALN	PCT TOTAL	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT X	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT X	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
	TOT X	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.7
2<5	0-3	.2	.3	.1	.0	.0	.0	.0	.0	.0	.2	.7	.7
	4-10	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.9
	11-21	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT X	.4	.3	.3	.0	.0	.0	.0	.0	.0	.2	.7	2.2
5<10	0-3	.0	.0	.3	.2	.0	.3	.3	.7	.0	1.6	2.5	8.1
	4-10	.0	.7	.9	.1	.9	1.7	1.8	1.6	.0	.0	4.7	4.7
	11-21	.2	.0	.9	.0	.2	1.3	1.4	.8	.0	.0	.2	.2
	TOT X	.2	.7	2.0	.3	1.1	3.3	3.5	3.2	.0	1.6	16.4	16.4
10<	0-3	.9	.9	1.0	.6	1.6	1.6	3.2	.7	.0	9.7	20.4	40.6
	4-10	1.6	2.3	2.5	2.0	3.5	3.9	14.4	5.6	.0	.0	18.3	18.3
	11-21	.6	.3	.9	.1	1.2	3.2	8.1	3.5	.0	.0	1.2	1.2
	TOT X	3.1	3.3	4.4	2.8	6.5	14.1	26.3	9.9	.0	9.7	80.5	80.5
TOT OBS												579	
TOT PCT		4.1	4.7	6.8	3.2	7.6	17.6	30.7	13.9	.0	11.4	100.0	

PERIOD (PRIMARY) 1949-1971  
(OVER-ALL) 1964-1971

APRIL

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 10  
PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL NH <5/8 ANY HGT
00003	0.0	0.0	0.8	0.0	0.0	2.3	1.6	0.0	0.0	3.1	7.8	92.2	128
06009	0.0	0.7	0.0	0.0	4.0	1.3	0.7	0.7	1.3	4.7	13.4	86.6	149
12015	0.0	0.0	0.0	4.5	2.3	2.3	3.8	0.8	3.0	0.8	17.3	82.7	133
18021	0.0	0.0	0.0	1.9	1.0	0.0	3.7	0.0	1.0	0.0	7.8	92.2	103
TOT	0.0	1.4	1.8	10.8	12.8	8.4	12.2	2.5	7.0	12.2	61.4	432	513
PCT	0.0	0.2	0.2	1.6	1.9	1.6	2.5	0.4	1.4	2.3	11.9	86.1	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
00003	0.0	0.0	0.3	2.5	9.1	87.6	121
06009	0.0	0.0	0.7	0.7	19.0	79.6	142
12015	0.0	0.0	0.0	0.8	16.1	83.1	124
18021	0.0	1.0	0.0	3.0	12.9	83.2	101
TOT	0.0	1.0	1.0	8.0	71.0	406	488
PCT	0.0	0.2	0.2	1.6	14.5	83.2	100.0

TABLE 12

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

HOUR (GMT)	<150	<600	<1000	1000+	NH <5/8	TOTAL
00003	0.0	0.8	4.1	7.4	88.4	121
06009	0.0	0.7	2.1	13.4	86.6	149
12015	0.0	0.0	5.6	13.7	80.6	124
18021	0.0	1.0	5.0	5.9	89.1	101
TOT	0.0	3.0	20.5	51.3	417	488
PCT	0.0	0.6	4.1	10.5	85.5	100.0

APRIL

PERIOD (PRIMARY) 1940-1971  
(OVER-ALL) 1964-1971

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.5	2.7	2.9	5.5	.0	27	6.6
80/84	.0	.0	.2	1.2	5.9	11.5	5.1	2.2	107	26.1
75/79	.0	.0	.0	1.0	6.8	16.1	15.6	7.6	197	48.0
70/74	.0	.0	.0	.5	1.7	4.1	8.8	2.9	74	18.0
65/69	.0	.0	.0	.0	.2	.5	.0	.2	4	1.0
60/64	.0	.0	.0	.0	.0	.0	.0	.0	1	.2
TOTAL	.0	.0	1	1.2	7.1	1.5	127	53	410	100.0
PCT	.0	.0	.2	3.2	17.3	35.4	31.0	12.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CAL
	.4	.0	.3	.7	.2	1.5	1.2	.4	.0	2.0
	.4	1.9	2.8	.7	2.0	5.9	7.3	2.3	.0	2.9
	2.3	2.0	4.3	2.0	4.0	5.9	15.6	6.0	.0	6.1
	.0	.9	.9	.0	1.7	2.6	7.1	4.2	.0	.7
	.4	.1	.0	.0	.0	.0	.0	.2	.0	.2
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	14	19	34	14	32	65	127	53	0	49
	3.4	4.7	8.3	3.6	7.9	15.9	31.2	12.1	.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
0000Z	83	81	80	75	70	67	67	75.2	155
0600Z	87	85	85	79	73	72	66	78.6	1.4
1200Z	88	87	86	60	72	70	64	79.9	163
1800Z	85	84	81	76	72	70	66	76.2	136
TOT	88	87	85	77	72	69	64	77.6	628

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.0	1.9	6.4	28.3	39.6	23.6	82	106
0600Z	.0	2.4	16.1	41.7	31.5	6.3	77	127
1200Z	.0	8.1	27.0	45.0	12.6	7.2	73	111
1800Z	.0	2.1	13.8	31.9	38.3	13.8	80	94
TOT	0	16	73	163	132	54	78	438



PERIOD: (PRIMARY) 1949-1971  
(OVER-ALL) 1864-1971

APRIL

AREA: 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 17

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

AIR-SEA TMP DIF	61	65	69	73	77	81	85	TOT	W FOG	MO FOG
11/13	.0	.0	.0	.0	.0	.2	.2	2	.0	.4
9/10	.0	.0	.0	.0	.0	1.3	1.1	11	.0	2.4
7/8	.0	.0	.0	.4	.4	2.4	2.4	24	.0	5.2
6	.0	.0	.0	.4	1.9	2.6	.4	25	.2	5.2
5	.0	.0	.0	.6	1.3	2.4	.6	23	.0	5.0
4	.0	.0	.0	.9	4.5	3.4	.9	45	.0	9.7
3	.0	.0	.0	1.7	3.2	2.8	.0	36	.0	7.8
2	.0	.0	.0	1.9	5.6	1.3	.0	41	.0	8.8
1	.0	.0	.2	5.2	6.7	.9	.0	60	.0	12.9
0	.0	.0	.6	6.3	5.4	.2	.0	58	.0	12.5
-1	.0	.0	.0	5.2	4.5	.6	.0	48	.0	10.3
-2	.0	.0	.2	3.7	1.9	.2	.0	37	.2	7.8
-3	.2	.0	.6	3.4	.2	.0	.0	21	.0	4.5
-4	.0	.0	.9	2.8	.2	.0	.0	18	.0	3.9
-5	.0	.0	1.3	.2	.0	.0	.0	8	.0	1.7
-6	.0	.4	.2	.6	.0	.0	.0	6	.2	1.1
-7/-8	.0	.0	.0	.2	.0	.0	.0	1	.0	.2
TOTAL	1	3	27	154	168	85	26	464	3	461
PCT	.2	.6	5.8	33.2	36.2	18.3	5.6	100.0	.6	99.4

PEK1001 (PRIMARY)  
(OVER-ALL) 1963-1971

APRIL  
TABLE 18

AREA 0022 S. E. PERSIAN GULF  
26.IN 54.7E

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

HGT	N					NE					48+	PCT	
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21			22-33
<1	1.1	.0	.0	.0	.0	.0	1.1	1.1	.0	.0	.0	.0	2.1
1-2	.0	1.6	.0	.0	.0	.0	1.6	.5	.0	.0	.0	.0	.5
3-4	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	1.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	1.6	.0	.0	.0	.0	2.6	1.1	.0	.0	.0	.0	3.7

HGT	F					SE					48+	PCT	
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21			22-33
<1	.0	1.1	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	1.1
1-2	.0	3.9	.0	.0	.0	.0	3.9	.3	.0	.0	.0	.0	1.6
3-4	.0	.0	2.1	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.0	2.1	.0	.0	.0	7.1	.3	2.1	.3	.0	.0	2.6

AREA 0022 S. E. PERSIAN GULF  
20.1N 54.7E

APRIL  
TABLE 18

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

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

HGT	S				SW				PCT						
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3		4-10	11-21	22-33	34-47	48+	PCT
<1	1.8	4.7	2.6	1.1	.0	.0	.0	.0	.0	4.2	8.2	8.7	1.1	.0	22.1
1-2	1.6	2.7	.6	.0	.0	.0	.0	.0	.0	2.1	3.4	.0	.0	.0	5.5
3-6	.0	.8	.8	.0	.0	.0	.0	.0	.0	2.1	3.4	1.1	.0	.0	6.6
7	.0	.0	1.1	1.1	.0	.0	.0	.0	.0	.0	1.3	4.5	.0	.0	5.8
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	3.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.8	4.7	2.6	1.1	.0	.0	10.3	4.2	8.2	8.7	1.1	.0	.0	22.1	

HGT	W				NW				PCT						
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3		4-10	11-21	22-33	34-47	48+	PCT
<1	4.2	6.8	.0	.0	.0	.0	.0	.0	.0	1.1	1.3	.0	.0	.0	3.4
1-2	1.1	7.9	4.2	.0	.0	.0	.0	.0	.0	1.1	2.9	.0	.0	.0	3.9
3-6	.0	3.2	5.0	.0	.0	.0	.0	.0	.0	.0	2.1	.0	.0	.0	4.5
7	.0	.0	4.2	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1
8-9	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	5.3	17.9	15.3	1.1	.0	.0	39.5	2.1	6.3	3.7	.0	.0	.0	12.1	

PERIODS (PRIMARY)  
(OVER-ALL) 1963-1971

APRIL

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 18 (CONT)

HGT	WIND SPEED (KTF) VS SEA HEIGHT (FT)										TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS			
<1	22.8	14.0	.9	.0	.0	.0	37.7				
1-2	5.3	20.2	5.3	.0	.0	.0	30.7				
3-4	.0	7.0	12.3	.0	.0	.0	19.3				
5-6	.0	.0	16.1	1.8	.0	.0	7.9				
7	.0	.0	2.6	.9	.0	.0	3.5				
9-9	.0	.0	.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	38.1	41.2	28.1	2.6	.0	.0	100.0			114	

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+ TOTAL	MEAN HGT	
<1	13.2	23.8	15.4	2.7	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	211	2
6-7	.0	.8	3.5	1.1	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	4
8-9	.3	.5	.8	.0	.0	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
INDET	26.2	4.3	2.7	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	126	1
TOTAL	147	109	83	16	9	3	3	0	0	0	0	0	0	0	0	0	0	0	0	370	2
PCT	39.7	29.5	22.4	4.3	2.4	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	



MAY

PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1911-1971

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)											
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL DPS	PCT FREQ	MEAN SPO	TOTAL DPS	PCT FREQ	MEAN SPO	00	03	06	09	12	15	18	21		
N	.7	1.9	.5	.0	.0	.0	21	3.1	6.9	.0	5.1	3.0	.0	.0	5.1	4.8	2.2	1.7	2.5	.0		
NE	.8	2.1	.1	.0	.0	.0	21	3.0	5.5	.0	4.3	3.2	2.9	4.3	9.7	1.5	1.5	.0	1.5	7.1		
E	1.3	3.7	.4	.0	.0	.0	37	5.4	6.0	.0	11.6	3.5	14.7	11.6	1.6	3.6	6.8	2.3	2.3	4.8		
SE	1.2	1.6	.7	.0	.0	.0	22	3.2	5.6	.0	3.8	4.7	.0	3.8	3.2	2.4	.0	2.3	2.3	4.8		
S	1.4	4.1	1.7	.1	.0	.0	50	7.3	8.2	.0	9.3	8.9	22.1	9.3	.0	.0	3.2	1.7	11.9	.0		
SW	2.4	14.6	4.1	.1	.0	.0	146	21.2	8.2	.0	21.0	20.0	19.1	21.0	20.2	28.1	12.9	16.9	26.2	.0		
W	3.1	18.9	11.1	1.3	.0	.0	238	34.4	9.8	.0	23.8	33.7	20.8	23.8	55.6	34.8	50.0	41.9	26.2	.0		
NW	1.1	6.6	3.1	.3	.0	.0	90	13.1	10.0	.0	7.1	12.2	8.8	7.1	4.8	12.3	23.3	23.1	9.5	.0		
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	9.1	3.0	.62	.3	.0	.0	63	9.1	7.9	.0	13.9	10.8	13.8	13.9	.0	6.8	.0	7.7	9.5	.0		
TOT OBS	148	570	162	13	0	0	671	100.0	7.9	.0	156	156	117	151	51	146	29	130	21	.0		
TOT PCT	21.1	53.5	23.4	1.9	.0	.0	100.0				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)												HOUR (GMT)											
	0-6	7-16	17-27	28-40	41+	TOTAL DPS	PCT FREQ	MEAN SPO	00	03	06	09	12	15	18	21								
N	1.7	1.2	.0	.0	.0	21	3.1	6.9	2.7	5.1	2.1	2.1	2.1	2.1	2.2	.0								
NE	2.1	.9	.0	.0	.0	21	3.0	5.5	3.1	5.2	1.3	2.3	2.3	2.3	2.3	.0								
E	3.0	2.4	.0	.0	.0	37	5.4	6.0	4.3	9.9	4.1	2.6	2.6	2.6	2.6	.0								
SE	2.4	.8	.0	.0	.0	22	3.2	5.6	4.2	3.7	2.0	2.6	2.6	2.6	2.6	.0								
S	3.3	3.5	.5	.0	.0	30	7.3	8.3	10.1	7.7	7.7	3.1	3.1	3.1	3.1	.0								
SW	9.5	10.9	.8	.1	.0	146	21.2	8.2	19.9	20.9	23.6	18.2	18.2	18.2	18.2	.0								
W	10.9	19.9	3.3	.4	.0	238	34.4	9.8	32.5	29.3	37.3	39.7	39.7	39.7	39.7	.0								
NW	6.2	7.1	1.8	.0	.0	90	13.1	10.0	11.9	5.7	14.1	21.2	21.2	21.2	21.2	.0								
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0								
CALM	9.1	320	64	4	0	63	9.1	7.9	10.9	11.3	5.7	7.9	7.9	7.9	7.9	.0								
TOT OBS	320	4607	64	6	0	671	100.0		163	162	175	151	151	151	151	.0								
TOT PCT	46.3	66.7	6.4	.6	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	.0								

PERIOD: (FEBRUARY) 1948-1971  
(OVER-ALL) 1911-1971

MAY

AREA 0022 S. E. PERSIAN GULF  
20.1N 56.7E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
0603	10.9	9.8	51.4	1.6	0.0	0.0	8.1	100.0	183	
0609	11.5	15.4	39.9	12.6	0.0	0.0	6.4	100.0	182	
1215	5.7	9.1	55.4	26.9	0.0	0.0	8.6	100.0	175	
1821	7.9	13.9	46.4	29.1	0.0	0.0	8.7	100.0	151	
TOT	63	83	370	162	0	0	7.9		691	
PCT	5.1	12.0	53.5	23.4	0.0	0.0		100.0		

TABLE 5

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

WIND DIR	3-4		5-7		8-6		TOTAL		MEAN CLOUD COVER
	3-4	5-7	8-6	5-7	8-6	3-4	5-7		
N	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	2.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.9
E	4.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.8
SE	3.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.7
S	6.2	0.3	0.1	0.4	0.1	0.1	0.1	0.1	0.9
SW	19.6	1.1	0.4	0.4	0.4	0.4	0.4	0.4	0.8
W	27.8	1.7	0.7	1.8	0.7	0.7	0.7	0.7	0.9
NW	12.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
VAR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALM	9.3	0.2	0.0	0.4	0.0	0.0	0.0	0.0	0.4
TOT OBS	456	27	21	11	515				0.8
TOT PCT	58.5	5.2	4.1	2.1	100.0				

TABLE 6

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

	000		150		300		600		1000		2000		3500		5000		6500		8000+		TOTAL OBS	
	000	149	150	299	300	599	600	999	1000	1999	2000	3999	4999	5999	6999	7999	8999	9999	ANY HGT	ANY HGT		
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15
E	0.0	0.0	0.0	0.0	0.0	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	27
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19
S	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36
SW	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	112
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	164
VAR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
TOT OBS	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51
TOT PCT	4.4	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	499
TOT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	515
TOT PCT	58.5	5.2	4.1	2.1	100.0																	100.0

PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1911-1971

MAY

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 7

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

CEILING (FEET)	OR		OR		OR		OR		OR	
	>10	>5	>2	>1	>1/2	>1/4	>5/10	>0	>0	>0
OR >6500	.4	.6	.6	.5	.6	.6	.6	.6	.6	.6
OR >5000	.6	.7	.9	.9	.9	.9	.9	.9	.9	.9
OR >3500	.7	1.1	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
OR >2000	.9	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
OR >1000	1.3	1.9	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
OR >600	1.3	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
OR >300	1.3	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
OR >150	1.3	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
OR >0	1.3	2.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
TOTAL	7	12	13	13	13	13	13	13	13	14

TOTAL NUMBER OF OBS: 534

PCT FREQ NH <5/8: 97.4

TABLE 7a

PERCENTAGE FREQ OF LOW CLOUDS (HEIGHTS)

	0	1	2	3	4	5	6	7	8	9	TOTAL
81.4	9.5	3.5	1.4	.9	.9	.5	.5	.7	1.0	.5	576
											OBS



PERIOD: (MONTHLY) 1948-1971  
(OVER-ALL) 1911-1971

MAY

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE F

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

VSBY (NH)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.4	.5	.5
TOT %	.0	.0	.0	.1	.1	.0	.0	.0	.0	.4	.5	.5
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.4	.4	.2	.1	.2	.0	.0	.9	.9
TOT %	.0	.0	.0	.4	.4	.2	.1	.2	.0	.0	.9	.9
PCP	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	.2
NO PCP	.0	.0	.3	*	.4	.7	1.0	.4	.0	.2	3.0	3.0
TOT %	.0	.0	.3	*	.4	.7	1.1	.4	.0	.2	3.2	3.2
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	1.6	.7	1.8	.8	.9	4.5	7.3	4.3	.0	1.6	23.5	23.5
TOT %	1.6	.7	1.8	.8	.9	4.5	7.3	4.3	.0	1.6	23.5	23.5
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	1.8	2.4	3.5	2.5	5.4	15.8	23.3	8.9	.0	8.2	71.9	71.9
TOT %	1.8	2.4	3.5	2.5	5.4	15.8	23.3	8.9	.0	8.2	71.9	71.9
TOT OBS	3.4	3.1	5.3	3.5	7.1	21.2	31.9	13.3	.0	10.4	100.0	570
TOT PCT												

PERIOD: (PRI-18Y) 1348-1971  
(COVER-ALL) 1411-1971

MAY

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 9

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

VS3Y (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.0
	4-10	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.3	.4	.0
1-2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
	4-10	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.4	.4
	11-21	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.3	.1	.1	.1	.2	.0	.0	.7	.7
2<5	0-3	.0	.0	.0	.0	.0	.1	.1	.0	.0	.1	.4	.4
	4-10	.0	.0	.3	.0	.2	.4	.7	.0	.0	.0	1.6	1.6
	11-21	.0	.0	.0	.0	.1	.0	.3	.0	.0	.0	.7	.7
	22+	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.1
TOT %	.0	.0	.3	.0	.3	.5	1.3	.3	.3	.0	.1	2.9	2.9
5<10	0-3	.4	.2	.3	.2	.3	.0	.6	.3	.0	1.6	4.0	4.0
	4-10	.7	.5	.9	.5	.4	2.9	2.7	1.4	.0	.0	10.0	10.0
	11-21	.3	.0	.4	.0	.1	1.3	3.2	1.6	.0	.0	6.9	6.9
	22+	.0	.0	.0	.0	.0	.1	.0	.3	.0	.0	.4	.4
TOT %	1.5	.7	1.6	.8	.8	4.3	6.5	3.6	3.6	.0	1.6	21.3	21.3
10+	0-3	.3	.6	1.0	1.0	.8	2.1	2.4	.8	.0	7.2	16.3	16.3
	4-10	1.2	1.6	2.6	1.0	3.4	10.9	15.4	5.2	.0	.0	41.5	41.5
	11-21	.1	.1	.0	.3	1.3	2.8	7.7	3.0	.0	.0	15.4	15.4
	22+	.0	.0	.0	.0	.1	.0	1.2	.0	.0	.0	1.3	1.3
TOT %	1.7	2.4	3.7	2.4	5.7	15.8	26.8	9.0	9.0	.0	7.2	74.6	74.6
TOT OBS												680	
TOT PCT		3.1	3.1	5.5	3.2	7.2	20.8	34.6	13.1	.0	9.3	100.0	

PERIOD: (PRIMARY) 1948-1971;  
(COVER-ALL) 1911-1971

MAY

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 10  
PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NN >4/8) AND  
OCCURRENCE OF NN <3/8 BY HOUR

HOUR (GMT)	000	050	300	600	959	3500	4999	5000	8499	8000+	TOTAL	NN <3/8 ANY NGT	TOTAL
00003	1.9	.0	.0	.0	1.3	.0	.0	.0	.6	1.3	5.1	94.9	156
06009	.0	.0	.0	.6	.0	.6	.0	.0	.0	.0	1.9	98.1	157
12015	.0	.0	.0	.0	.7	.0	.0	.7	.0	.0	1.5	98.5	136
18021	.8	.0	.0	.0	.0	.0	.8	.8	.0	.0	2.4	97.6	124
TOT	4	0	0	1	3	1	2	2	1	2	16	557	573
PCT	.7	.0	.0	.2	.5	.2	.3	.3	.2	.3	2.8	97.2	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
00003	.7	.0	.0	2.8	17.9	78.6	145
06009	.0	.0	.0	4.1	25.2	70.7	147
12015	.0	.0	.0	2.4	28.5	69.1	123
18021	.4	.0	.0	2.5	20.0	75.8	120
TOT	2	0	1	16	122	394	535
PCT	.4	.0	.2	3.0	22.6	75.6	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	1000+ <5	1000+ AND 5+	NN <3/8 AND 5+	TOTAL OBS
00003	1.4	1.4	4.1	3.4	92.4	14
06009	.0	.0	4.8	1.4	93.9	147
12015	.0	.0	2.4	1.6	95.9	123
18021	.8	.8	4.2	.8	95.0	120
TOT	3	3	21	10	504	535
PCT	.6	.6	3.9	1.9	94.2	100.0

MAY

PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1911-1971

AREA 0022 S. E. PERSIAN GULF  
26.2N 54.7E

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-35	40-49	50-59	60-69	70-79	80-89	90-100				
95/99	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	2	.4
90/94	.0	.0	.9	1.3	2.1	1.1	.2	.0	.0	.0	20	3.6
85/89	.0	.0	.2	1.5	4.7	12.2	6.4	2.4	.0	.0	128	27.4
80/84	.0	.0	.0	.2	9.0	13.7	18.6	13.3	.0	.0	254	54.8
75/79	.0	.0	.0	.0	1.1	2.6	4.1	3.9	.0	.0	54	11.6
70/74	.0	.0	.0	.0	.0	.6	.0	.2	.0	.0	1	.2
TOTAL	.0	.0	.5	1.9	7.9	13.8	13.7	9.2	.0	.0	467	100.0
PCT	.0	.0	1.1	3.4	16.9	29.6	29.3	19.7				

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP												
N	NE	E	SE	S	SW	W	NW	VAR	CALM			
.0	.0	.0	.0	.0	.1	.4	.0	.0	.0			
.4	.1	1.0	.1	.2	.6	2.4	.9	.0	.0			
.9	.6	2.7	1.0	2.2	7.3	8.1	3.0	.0	.0			
.7	1.9	3.1	2.2	4.0	12.6	17.1	7.2	.0	2.6			
.5	.3	.0	.0	1.0	1.9	4.6	1.9	.0	1.3			
.0	.0	.0	.0	.0	.0	.2	.0	.0	.0			
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
.12	.13	.26	.15	.35	.105	1.53	.60	.0	.46			
2.6	2.8	5.7	3.2	7.5	22.6	32.8	13.0	.0	9.9			

TABLE 15

HOUR (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL OBS
	MAX	99%	95%	50%	5%	1%	MIN	MEAN			
0603	89	88	86	81	74	74	74	81.1			187
0609	92	94	91	84	80	77	75	84.6			187
1215	96	95	93	84	80	77	75	86.0			172
1821	89	88	85	84	78	76	75	82.5			156
TOT	96	94	90	83	78	75	74	83.5			702

TABLE 16

HOUR (GMT)	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL OBS
	0-29	30-39	60-69	70-79	80-89	90-100	MEAN				
0603	.0	1.5	9.6	18.4	34.6	36.0	83				136
0609	.0	3.8	16.5	37.6	32.5	9.8	77				133
1215	.0	11.8	26.1	31.7	18.9	11.9	73				119
1821	.0	.0	17.0	27.0	33.0	22.0	61				100
TOT	0	.22	.83	1.60	1.45	.98	79				488

PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1911-1971

MAY

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 17

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

AIR-SEA TMP OIF	73	77	81	85	89	93	TOT	M	W	NO FOG
14/16	.0	.0	.0	.2	.0	.2	2	.0	.0	.4
11/13	.0	.0	.0	.0	1.7	.6	12	.0	.0	2.9
9/10	.0	.0	.0	1.0	1.0	1.0	15	.0	.0	2.9
7/8	.0	.0	.6	2.5	1.9	.2	27	.2	.2	5.0
6	.0	.0	.6	2.3	.2	.0	15	.0	.0	3.1
5	.0	.0	2.3	2.5	1.0	.0	30	.2	.2	5.6
4	.0	1.0	1.7	2.7	.6	.0	31	.4	.4	5.8
3	.0	1.2	4.8	3.9	.2	.0	52	.2	.2	9.8
2	.0	1.3	7.1	5.0	.0	.0	70	.0	.0	12.9
1	.0	2.3	8.3	2.5	.2	.0	69	.0	.0	13.3
0	.6	4.4	7.5	1.9	.2	.0	76	.0	.0	14.6
-1	.8	2.1	3.9	1.5	.0	.0	43	.4	.4	7.9
-2	.2	3.9	2.9	.4	.0	.0	38	.0	.0	7.3
-3	.2	1.5	1.3	.0	.0	.0	16	.4	.4	2.7
-4	.4	1.2	.4	.2	.0	.0	11	.2	.2	1.9
-5	.0	.4	.4	.0	.0	.0	4	.0	.0	.8
-6	.2	.4	.2	.0	.0	.0	4	.0	.0	.8
-7/-8	.2	.2	.0	.0	.0	.0	2	.0	.0	.4
-9/-10	.0	.2	.0	.0	.0	.0	1	.0	.0	.2
TOTAL	13	104	218	138	36	10	519	13	13	506
PCT	2.5	20.0	43.0	26.6	6.9	1.9	100.0	2.5	2.5	97.5

PERIOD (PRIMARY) (OVER-ALL) 1963-1971 MAY AREA 0022 S. S. PERSIAN GULF  
 26.311 54.7E  
 TABLE 18

PCT FREQ OF WIND SPEED (K'S) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N					NE					48+	PCT	
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33			34-47
<1	.0	1.7	.0	.0	.0	.0	.9	3.1	.0	.0	.0	.0	4.0
1-2	.9	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.9
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	1.7	.0	.0	.0	.0	.9	4.9	.0	.0	.0	.0	5.0

HGT	E					SE					48+	PCT	
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33			34-47
<1	.0	.9	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
1-2	.9	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	3.5	.0	.0	.0	.0	.9	.2	.0	.0	.0	.0	.5

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

MAY

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 18

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

HGT	S					TOT PCT
	1-3	4-10	11-21	22-33	34-47	
<1	1.9	5.7	.0	.0	.0	7.5
1-2	.9	1.7	.0	.0	.0	1.7
3-4	.0	.9	.9	.0	.0	1.9
5-6	.0	.0	2.1	.0	.0	2.1
7	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0
12-16	.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	2.8	7.3	3.1	.0	.0	13.2

HGT	NW					TOT PCT
	1-3	4-10	11-21	22-33	34-47	
<1	4.7	5.4	.0	.0	.0	10.1
1-2	.0	8.7	4.2	.0	.0	13.0
3-4	.0	4.5	5.9	.0	.0	10.4
5-6	.0	1.9	2.6	.0	.0	4.5
7	.0	.0	1.7	.0	.0	1.7
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
TOT PCT	4.7	20.5	15.3	.0	.0	40.6

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

MAY

AREA 0022, S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	FT				
<1	24.0	19.4	.8	.0	.0	.0	44.2				
1-2	3.9	17.8	5.4	.0	.0	.0	27.1				
3-4	.0	10.1	8.5	.0	.0	.0	18.6				
5-6	.0	1.6	5.4	.0	.0	.0	7.0				
7	.0	.0	1.6	.8	.0	.0	2.3				
8-9	.0	.0	.8	.0	.0	.0	.8				
10-11	.0	.0	.0	.0	.0	.0	.0				
12	.0	.0	.0	.0	.0	.0	.0				
13-16	.0	.0	.0	.0	.0	.0	.0				
17-19	.0	.0	.0	.0	.0	.0	.0				
20-22	.0	.0	.0	.0	.0	.0	.0				
23-25	.0	.0	.0	.0	.0	.0	.0				
26-32	.0	.0	.0	.0	.0	.0	.0				
33-40	.0	.0	.0	.0	.0	.0	.0				
41-48	.0	.0	.0	.0	.0	.0	.0				
49-60	.0	.0	.0	.0	.0	.0	.0				
61-70	.0	.0	.0	.0	.0	.0	.0				
71-86	.0	.0	.0	.0	.0	.0	.0				
87+	.0	.0	.0	.0	.0	.0	.0				
TOT PCT	17.9	48.8	22.5	.8	.0	.0	100.0				

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TABLE 19

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

PERIOD (SEC)	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)																	MEAN HGT			
	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70		71-86	87+	TOTAL
<1	14.0	15.4	14.3	4.4	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	216
1-2	.0	1.2	3.7	3.2	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38
3-4	.0	.5	.0	.7	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12
5-6	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
7-9	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDET	25.3	4.7	2.5	.2	.5	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	136
TOTAL	161	105	84	35	15	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	407
PCT	39.6	26.0	20.5	4.6	3.7	1.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0



JUNE

PERIOD: (PRIMARY) 1950-1970  
(OVER-ALL) 1910-1970

AREA 0022 S. E. PERSIAN GULF  
26.0N 54.5E

TABLE 1  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHHR	RAIN SHHR	ORZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG PCPN	SNOW	OTHER FRZN PCPN					FOG	SMOKE	CUST	BLWG	
N	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.3	.1	.1	4.3	28
NE	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	4	.1	.2	4.4	26
E	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.2	.1	.1	4.1	27
SE	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.2	1.6	.6	2.5	27
S	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.3	.9	.9	7.0	55
SW	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.3	2.2	1.2	15.0	103
W	.0	.2	.0	.0	.0	.0	.0	.2	1	.1	.1	7.0	2.1	18.9	146
NW	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.1	1.7	1.7	10.8	78
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.5	2.0	.7	7.8	61
TOT OBS	0	1	0	0	0	0	0	.0	1	1	9	86	42	414	553
TOT PCT	.0	.2	.0	.0	.0	.0	.0	.2	.2	.2	1.6	15.6	7.6	74.9	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN SHHR	RAIN SHHR	ORZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG PCPN	SNOW	OTHER FRZN PCPN					FOG	SMOKE	CUST	BLWG	
0003	.0	.7	.0	.0	.0	.0	.0	.7	1	.0	2.8	14.5	5.5	76.6	145
0609	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	1.9	18.5	5.7	73.9	157
1215	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.6	15.8	7.0	76.6	134
1821	.0	.0	.0	.0	.0	.0	.0	.0	0	.8	.8	13.2	10.9	74.4	129
TOT	0	1	0	0	0	0	0	.2	1	1	9	92	42	444	589
PCT	.0	.2	.0	.0	.0	.0	.0	.2	.2	.2	1.5	15.6	7.1	75.4	100.0

JUNE

PERIOD: (PRIMARY) 1950-1970  
(OVER-ALL) 1910-1970

AREA 0022 S. E. PERSIAN GULF  
26.0N 54.5E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)											
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21					
N	.6	2.5	1.4	.2	.0	.0	29	6.6	9.9	5.8	.0	4.2	.0	4.3	.0	5.2	11.7					
NE	1.1	2.8	.6	.2	.0	.0	29	4.7	7.5	2.7	7.1	5.6	6.8	7.5	.0	2.4	5.0					
E	1.7	2.7	.5	.0	.0	.0	30	5.8	5.8	5.9	7.1	7.7	4.5	5.1	.0	.4	3.2					
SE	1.4	3.1	.2	.2	.0	.0	31	5.1	6.0	6.1	8.9	8.6	2.3	3.8	.0	2.6	.0					
S	1.9	6.8	1.8	.0	.0	.0	65	10.4	7.4	15.3	12.5	9.3	6.8	8.6	.0	9.0	20.0					
SW	2.7	12.4	3.6	.0	.0	.0	123	19.7	8.0	13.5	.0	15.1	39.4	27.7	14.6	16.2	29.7					
W	3.3	16.7	6.1	.3	.0	.0	165	29.4	8.3	22.1	35.7	17.7	29.5	28.2	68.8	34.2	20.0					
NW	1.7	8.0	3.6	.3	.0	.0	85	13.6	9.0	15.6	21.4	15.4	4.5	7.8	8.3	18.8	6.7					
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
CALM	10.5	352	112	7	0	0	66	10.5	7.2	12.9	7.1	12.6	9.1	7.0	9.3	11.2	6.7					
TOT OBS	156	56.1	17.9	1.1	.0	.0	627	100.0	7.2	13.9	14	14.3	22	15.7	12	125	15					
TOT PCT	24.9	56.1	17.9	1.1	.0	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0					

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)											
	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPO	00	03	06	09	12	15	18	21						
N	1.4	2.7	.6	.0	.0	29	4.6	9.9	5.2	5.2	3.6	4.0	4.0	5.9								
NE	2.6	1.8	.2	.0	.0	29	4.7	7.5	3.1	3.1	5.8	7.0	7.0	2.7								
E	3.1	1.7	.0	.0	.0	30	4.8	5.8	6.0	6.0	7.3	4.7	4.7	.7								
SE	3.4	1.5	.2	.0	.0	31	5.1	6.0	6.4	6.4	7.7	3.6	3.6	2.3								
S	5.1	5.2	.2	.0	.0	65	10.4	7.4	15.0	15.0	8.9	8.0	10.2									
SW	7.6	11.6	.5	.0	.0	123	19.7	8.0	12.3	12.3	21.4	26.8	17.3									
W	12.0	12.8	1.6	.0	.0	165	26.4	8.3	23.4	23.4	19.2	31.1	32.7									
NW	5.1	6.8	1.7	.0	.0	85	13.6	9.0	16.2	16.2	13.9	7.8	17.5									
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0									
CALM	10.5	277	30	1	0	66	10.5	7.2	12.4	12.4	12.1	7.1	10.7									
TOT OBS	1319	44.2	6.8	1	0	627	100.0	7.2	15.3	15.3	16.5	16.9	14.0									
TOT PCT	50.9	44.2	6.8	1	0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0									

PERIOD: (PRIMARY) 1950-1970  
 (COVER-ALL) 1910-1970  
 JUNE  
 AREA COZ2 5. E. PERSIAN GULF  
 26.0N 54.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS	
		1-3	4-10	11-21	22-33				
0603	12.4	13.1	59.5	14.4	.7	.0	6.6	100.0	153
0609	12.1	13.9	57.0	15.8	1.2	.0	6.6	100.0	165
1215	7.1	16.0	54.4	21.3	1.2	.0	7.7	100.0	140
1821	10.7	14.3	53.6	20.0	1.4	.0	7.7	100.0	140
TOT	66	90	352	112	1.7	0	7.2	100.0	627
PCT	10.5	14.4	56.1	17.9	1.1	.0			

TABLE 5

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

WIND DIR	PCT FREQ						TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-6	DBSCD	DBSCD		
N	5.1	.2	.0	.0	.0	.0	26	.5
NE	4.6	.5	.2	.0	.0	.0	26	.6
E	4.6	.3	.4	.7	.0	.0	27	1.1
SE	4.9	.2	.4	.0	.0	.0	27	.8
S	3.1	.4	.4	.4	.4	.4	51	.9
SW	17.5	.6	1.2	.1	.1	.1	96	.6
W	24.8	.2	.3	.2	.2	.2	126	.3
NW	13.4	.2	.0	.0	.0	.0	70	.4
VAR	.0	.0	.0	.0	.0	.0	0	.0
CALM	9.0	.4	.0	.0	.0	.0	48	.3
TOT OBS	464	15	14	7	7	500		.5
TOT PCT	92.8	3.0	2.8	1.4	1.4	100.0		

TABLE 6

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

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)										TOTAL OBS	
	000	150	300	500	1000	2000	3500	5000	6500	8000+		ANY HGT
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26
E	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	27
SE	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	27
S	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	51
SW	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	96
W	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	126
NW	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	70
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	48
TOT OBS	3	0	2	2	4	0	0	0	0	0	0	500
TOT PCT	.6	.0	.4	.4	.8	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1950-1970  
(OVER-ALL) 1910-1970

JUNE

AREA 0022 S. E. PERSIAN GULF  
26.0N 54.3E

TABLE 7  
CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	>10		>5		>2		>1		>1/2		>1/4		>50%		CR
	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR		
>4500	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>5000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>5500	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>2000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>1000	.0	.0	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8
>600	.0	.8	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9
>300	.0	.9	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
>150	.0	.9	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
>10	.0	1.1	1.5	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
TOTAL	0	6	8	9	9	9	9	9	9	10	10	10	10	10	10

TOTAL NUMBER OF OBS: 530 PCT FREQ NH <5/8: 90.1

TABLE 7A  
PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSSCD	TOTAL
0	10.1	2.0	1.3	.2	.7	.6	.0	.6	.6	.6	545

JUNE

PERIOD1 (PRIMARY) 1950-1970  
(COVER-ALL) 1910-1970

TABLE 8

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

VSBY (NM)	PCP NO PCP TOT %	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT TOTAL CBS	PCT TOTAL CBS
<1/2	.0 .0 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	.0 .0 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	.0 .0 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	.0 .3 .3	.0	.4	.2	.6	.3	1.0	2.3	1.0	.0	.0	.0	.0
5<10	.0 1.2 1.2	.0	1.0	1.7	1.5	3.5	7.1	8.4	4.0	.0	.0	.0	.2
10+	.0 3.4 3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS		4.9	4.8	4.8	4.9	10.0	18.8	26.5	14.2	.0	.0	11.1	100.0

591

PERIOD: (PRIMARY) 1970-1970  
(OVER-ALL) 1910-1970

JUNE

AREA 0022 S. E. PERSIAN GULF  
26.0N 54.5E

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.4	.1	.1	.1	.0	.0	.0	.3
	4-10	.0	.0	.0	.0	.3	.2	.2	.2	.0	.0	.0	.7
	11-21	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.5
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.4	.2	.2	.4	.4	.0	.0	1.5
2<5	0-3	.0	.0	.0	.3	.0	.2	.2	.0	.0	1.5	2.1	2.1
	4-10	.2	.0	.2	.4	.3	.7	1.1	.5	.0	.0	4.0	4.0
	11-21	.1	.2	.0	.0	.0	.1	.9	.4	.0	.0	1.7	1.7
	22+	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.3	.3
	TOT %	.2	.5	.2	.5	.3	1.0	2.2	.9	.9	1.5	7.1	7.1
5<10	0-3	.0	.2	.6	.4	.7	1.6	.9	.2	.0	3.3	7.9	7.9
	4-10	.4	.7	.6	1.2	2.2	4.1	5.2	1.6	.0	.0	16.0	16.0
	11-21	.7	.2	.5	.2	.7	1.1	2.2	1.7	.0	.0	7.1	7.1
	22+	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.3	.3
	TOT %	1.1	1.0	1.7	1.8	3.6	6.7	8.3	3.7	3.7	3.3	31.4	31.4
10+	0-3	.6	1.0	1.2	.7	1.1	1.0	2.3	1.1	.0	6.0	14.9	14.9
	4-10	1.0	2.3	1.8	2.1	3.8	7.8	10.4	5.7	.0	.0	34.9	34.9
	11-21	.7	.3	.0	.4	1.2	2.5	2.2	1.2	.0	.0	6.6	6.6
	22+	.2	.0	.0	.0	.0	.0	.2	.2	.0	.0	.5	.5
	TOT %	3.3	3.6	3.0	2.9	6.2	11.2	13.5	8.1	8.1	.0	59.8	59.8
TOT OBS			4.6	4.9	4.8	5.2	10.5	19.2	26.7	13.3	.0	10.7	100.0
TOT PCT													605

JUNE

PERIOD: (PRIMARY) 1950-1970  
(OVER-ALL) 1910-1970

TABLE 10

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

PERIOD (GMT)	000	150	300	600	1000	2000	3000	5000	6000	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL
0000Z	.7	.0	.7	.7	.7	.0	.0	.0	.0	.0	.0	97.0	134
0600Z	.0	.0	.7	.0	1.4	.0	.0	.0	.0	.0	2.1	97.9	145
1200Z	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	148
1800Z	1.7	.0	.0	.9	.9	.0	.0	.0	.0	.0	3.4	96.6	116
TOT	3	0	2	2	4	0	0	0	0	0	11	532	543
PCT	.6	.0	.4	.4	.7	.0	.0	.0	.0	.0	2.0	98.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

PERIOD (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
0000Z	.0	.0	.0	4.7	26.4	69.0	129
0600Z	.0	.0	1.4	7.1	29.8	61.7	141
1200Z	.0	.0	.7	9.0	32.4	57.9	145
1800Z	.9	.0	.9	8.7	30.4	59.1	115
TOT	1	0	1	39	152	328	530
PCT	.2	.0	.3	7.4	29.8	61.9	100.0

TABLE 12

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

PERIOD (GMT)	<150	<500	<1000	1000+	NH <5/8	TOTAL OBS
0000Z	.8	1.6	6.2	.8	93.0	129
0600Z	.0	.7	8.5	1.4	90.1	141
1200Z	.0	.0	9.7	.0	90.3	145
1800Z	1.7	1.7	10.4	.9	88.7	115
TOT	3	5	46	4	480	530
PCT	.6	.9	8.7	.8	90.6	100.0

JUNE

PERIOD: (PRIMARY) 1950-1970  
(OVER-ALL) 1910-1970

AREA 0022 S. PERSIAN GULF  
26.01 54.5E

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL DBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100				
100/104	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.2
95/99	.0	.0	.0	.2	.7	1.0	.0	.0	.0	.0	6	2.0
90/94	.0	.0	.0	1.7	3.5	9.6	4.7	.5	.0	.0	81	20.0
85/89	.0	.0	.0	.5	3.0	15.8	7.1	12.1	.0	.0	245	60.5
80/84	.0	.0	.0	.0	1.0	2.0	6.2	6.9	.0	.0	65	16.0
75/79	.0	.0	.0	.0	.0	.2	.5	.5	.0	.0	5	1.2
TOTAL	.0	.0	.0	1.0	3.3	11.7	16.4	8.1	.0	.0	405	100.0
PCT	.0	.0	.0	2.5	8.1	28.9	40.5	20.0	.0	.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP												
	N	NE	E	SE	S	SW	W	NW	VAR	CALM		
100/104	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
95/99	.0	.1	.4	.2	.7	.1	.7	.0	.0	.0	.0	.2
90/94	2.2	1.1	1.9	1.3	1.7	3.7	5.0	1.0	.0	.0	.0	2.0
85/89	2.9	2.4	3.1	3.3	4.6	13.8	17.2	7.8	.0	.0	.0	5.4
80/84	.2	.0	.2	.0	2.3	3.0	4.9	3.6	.0	.0	.0	1.7
75/79	.1	.2	.0	.1	.4	.0	.2	.2	.0	.0	.0	.0
TOTAL	22	15	22	20	37	83	113	51	.0	.0	.0	39
PCT	5.4	3.8	5.6	4.9	9.3	20.6	28.1	12.7	.0	.0	.0	9.6

TABLE 15

HOUR (GMT)	MEANS/EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL DBS											
	MAX	99%	95%	90%	85%	80%	75%	70%	65%	60%		55%	50%	45%	40%	35%	30%	25%	20%	MIN	MEAN	TOTAL DBS
0003	94	91	88	85	80	78	84.8	161														
0609	97	94	91	88	84	81	80	88.3	162													
1215	100	98	95	90	85	82	80	89.5	161													
1821	93	92	90	86	82	79	78	86.2	149													
TOT	100	95	93	87	82	79	78	87.2	627													

TABLE 16

HOUR (GMT)	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL DBS
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN		
0003	.0	1.9	4.8	22.9	39.0	31.4	84	105			
0609	.0	1.8	4.5	23.7	50.5	13.5	81	111			
1215	.0	3.5	15.7	46.1	22.1	8.7	77	115			
1821	.0	2.0	6.0	17.0	44.0	31.0	84	100			
TOT	0	10	34	127	171	89	81	431			



AREA 0022 S. E. PERSIAN GULF  
26.0N 54.5E

JUNE

PERIOD (PRIMARY) 1950-1970  
(OVER-ALL) 1910-1970

TABLE 17

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

AIR-SEA TMP DIF	77	81	85	89	93	MO
	80	84	88	92	96	FOG
11/13	.0	.0	.0	.0	.2	3
9/10	.0	.0	.2	.2	1.0	9
7/5	.0	.0	.2	1.4	2.0	20
5	.0	.0	.5	2.6	1.2	22
4	.0	.0	.4	2.0	2.2	23
3	.0	.2	.6	3.0	.2	20
2	.2	.8	3.4	3.6	.6	38
1	.2	.6	6.4	3.6	.2	56
0	.2	3.0	10.5	2.2	.0	61
-1	.2	2.2	7.6	1.4	.0	80
-2	.4	3.2	5.4	.4	.0	37
-3	.2	2.0	3.0	.4	.0	47
-4	.0	2.4	1.4	.2	.0	28
-5	.0	.6	.8	.0	.0	20
-6	.0	.6	.4	.0	.0	10
-7/-8	.2	.2	.2	.0	.0	15
-11/-13	.2	.0	.0	.0	.0	3
TOTAL	2.2	79	247	121	38	503
PCT	2.4	15.7	49.1	24.1	7.6	100.0
						1.2
						98.2

PERIODS (PRIMARY)  
(OVER-ALL) 1963-1970

JUNE

TABLE 18

AREA 0022 S. E. PERSIAN GULF  
26.0N 54.5E

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

HGT	NE				TOT PCT
	1-3	4-10	11-21	22-33	
<1	.0	.0	.0	.0	0.0
1-2	.0	1.7	1.7	.0	3.4
3-4	.0	.0	.0	.0	0.0
5-6	.0	.0	.0	.0	0.0
7	.0	.0	.0	.0	0.0
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
20-23	.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	.0	1.7	1.7	.0	3.4

HGT	SE				TOT PCT
	1-3	4-10	11-21	22-33	
<1	.0	.0	.0	.0	0.0
1-2	.0	1.9	1.9	.0	3.8
3-4	.0	.0	.0	.0	0.0
5-6	.0	.0	.0	.0	0.0
7	.0	.0	.0	.0	0.0
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
TOT PCT	.0	1.9	1.9	.0	3.8

JUNE  
TABLE 18  
AREA 0022 S. E. PERSIAN GULF  
26.0N 54.5E

PERIOD (PRIMARY)  
(DVR-ALL) 1963-1970

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

HGT	S					TOT PCT
	1-3	4-10	11-21	22-33	34-47	
<1	.0	1.5	.0	.0	.0	1.5
1-2	1.0	7.3	2.7	.0	.0	10.9
3-4	.0	1.0	1.7	.0	.0	2.7
5-6	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0
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
TOT PCT	1.0	9.7	4.4	.0	.0	15.0

HGT	W					TOT PCT
	1-3	4-10	11-21	22-33	34-47	
<1	1.9	2.7	.0	.0	.0	4.4
1-2	1.0	10.9	4.1	1.0	.0	16.9
3-4	.0	1.7	4.6	.0	.0	7.3
5-6	.0	.0	1.0	.0	.0	1.0
7	.0	.0	.0	.0	.0	.0
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
TOT PCT	2.9	15.3	9.7	1.0	.0	28.9

AREA 0022 S. E. PERSIAN GULF  
26.0N 54.5E

JUNE

PERIOD (PRIMARY)  
(COVER-ALL): 1963-1970

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOT DBS	
	0-3	4-10	11-21	22-33	34-47	48+	PCT					
<1	10.0	14.8	.0	.0	.0	.0	32.8					
1-2	0.5	34.4	9.8	.0	.0	.0	45.7					
3-4	.8	8.2	8.2	.8	.0	.0	18.0					
5-6	.0	.8	.0	.0	.0	.0	1.6					
7	.0	.0	.8	.0	.0	.0	.8					
8-9	.0	.0	.0	.0	.0	.0	.0					
10-11	.0	.0	.0	.0	.0	.0	.0					
12	.0	.0	.0	.0	.0	.0	.0					
13-16	.0	.0	.0	.0	.0	.0	.0					
17-19	.0	.0	.0	.0	.0	.0	.0					
20-22	.0	.0	.0	.0	.0	.0	.0					
23-25	.0	.0	.0	.0	.0	.0	.0					
26-32	.0	.0	.0	.0	.0	.0	.0					
33-40	.0	.0	.0	.0	.0	.0	.0					
41-48	.0	.0	.0	.0	.0	.0	.0					
49-60	.0	.0	.0	.0	.0	.0	.0					
61-70	.0	.0	.0	.0	.0	.0	.0					
71-86	.0	.0	.0	.0	.0	.0	.0					
87+	.0	.0	.0	.0	.0	.0	.0					
TOT PCT	21.3	53.2	19.7	.8	.0	.0	100.0					122

TABLE 19  
PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)										87+ TOTAL	MEAN HGT									
	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19			20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	
<1	13.8	32.2	15.5	2.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	268	2
6-7	.0	1.9	3.1	1.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	10
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
INDET	24.1	3.3	1.4	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	123	0
TOTAL	159	157	84	15	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	419	2
PCT	37.9	37.5	20.0	3.6	.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	7

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TABLE 1  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHMR	RAIN SHMR	DFZL PCPN	PRECIPITATION TYPE			MIST PCPN	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER PCPN			FOG NO	SMOKE HAZE	DUST BLNG	DUST BLNG	NO SIG	
N	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.2	.2	3.2	16
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	.0	.0	6.6	39
E	.0	.0	.0	.0	.0	.0	.0	.2	.1	3.3	.3	.3	9.3	58
SE	.0	.0	.0	.0	.0	.0	.0	.2	.1	1.4	.5	.5	4.1	27
S	.0	.0	.0	.0	.0	.0	.0	.0	.5	2.1	.2	.2	6.2	37
SW	.0	.0	.0	.0	.0	.0	.0	.0	.5	9.7	.5	.5	9.7	55
W	.0	.0	.0	.0	.0	.0	.0	.1	.2	4.3	1.5	1.5	15.8	91
NW	.2	.0	.0	.0	.0	.0	.0	.6	.2	1.0	.5	.5	5.0	20
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.2	4.8	1.0	1.0	10.1	67
TOT OBS	1	0	0	0	0	0	0	5	9	89	22	22	292	417
TOT PCT	.2	.0	.0	.0	.0	.0	.0	1.2	2.2	21.3	5.3	5.3	70.0	100.0

TABLE 2  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN SHMR	RAIN SHMR	OR'L PCPN	PRECIPITATION TYPE			MIST PCPN	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER PCPN			FOG NO	SMOKE HAZE	DUST BLNG	DUST BLNG	NO SIG	
0000	.8	.0	.0	.0	.0	.0	.0	1.7	1.7	21.0	2.5	2.5	73.1	119
0600	.0	.0	.0	.0	.0	.0	.0	.0	4.1	22.8	4.9	4.9	68.3	123
1200	.0	.0	.0	.0	.0	.0	.0	.9	.9	24.2	7.2	7.2	66.7	111
1800	.0	.0	.0	.0	.0	.0	.0	2.0	1.0	18.6	5.0	5.0	72.5	102
TOT	1	0	0	0	0	0	0	5	9	99	23	23	319	455
PCT	.2	.0	.0	.0	.0	.0	.0	1.1	2.0	21.8	5.1	5.1	70.1	100.0

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PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1910-1970

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										WIND DIRECTION BY SPEED AND BY HOUR											
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPO	TOTAL OBS	PCT FREQ	MEAN SPO	00	03	06	09	12	15	18	21		
N	1.2	2.5	.1	.0	.0	.0	20	3.9	5.4	20	3.9	5.4	3.2	5.0	1.7	4.0	4.5	3.6	5.6	4.3		
NE	1.2	5.2	1.1	.0	.0	.0	39	7.5	7.1	39	7.5	7.1	7.1	20.0	15.9	12.0	6.3	1.9	1.3	2.2		
E	2.6	9.0	2.2	.0	.0	.0	67	12.7	6.9	67	12.7	6.9	12.5	35.0	21.4	24.0	8.0	6.5	8.9	2.2		
SE	.9	4.4	.3	.0	.0	.0	29	5.6	6.7	29	5.6	6.7	5.6	.0	7.5	8.0	5.4	6.5	4.1	4.3		
S	2.9	5.3	.7	.0	.0	.0	45	8.9	5.9	45	8.9	5.9	7.9	10.0	10.8	.0	13.4	9.3	5.9	4.3		
SW	2.0	11.5	2.1	.0	.0	.0	82	15.7	7.2	82	15.7	7.2	14.3	15.0	12.5	17.0	23.2	20.4	11.5	13.0		
W	2.9	10.3	3.4	.1	.0	.0	117	22.8	7.1	117	22.8	7.1	20.2	5.0	12.0	13.0	25.0	28.5	33.2	41.3		
NW	1.6	5.4	1.0	.0	.0	.0	42	8.0	6.4	42	8.0	6.4	4.6	10.0	6.7	6.0	3.6	13.0	13.2	19.6		
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	14.7	.0	.0	.0	.0	.0	77	14.7	.0	77	14.7	.0	24.6	.0	9.6	16.0	10.7	7.4	10.3	8.7		
TOT OBS	158	304	58	1	0	0	525	100.0	5.8	525	100.0	5.8	126	10	104	25	112	27	109	23		
TOT PCT	30.1	58.7	11.0	.2	.0	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)												WIND DIRECTION BY SPEED AND BY HOUR											
	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21								
N	2.7	1.1	.0	.0	.0	20	3.9	5.4	3.3	3.1	3.1	4.7	5.4	5.4	5.4	5.4								
NE	3.8	3.8	.0	.0	.0	39	7.5	7.1	8.1	15.1	15.1	5.4	1.4	1.4	1.4	1.4								
E	7.5	5.1	.2	.0	.0	67	12.7	6.9	14.2	21.9	21.9	7.7	7.6	7.6	7.6	7.6								
SE	2.7	3.0	.0	.0	.0	29	5.6	6.7	5.1	7.6	7.6	5.6	4.1	4.1	4.1	4.1								
S	5.6	3.1	.2	.0	.0	46	8.9	5.9	5.1	3.7	3.7	12.6	5.6	5.6	5.6	5.6								
SW	7.9	7.6	.2	.0	.0	82	15.7	7.2	14.3	13.4	13.4	22.7	11.8	11.8	11.8	11.8								
W	13.1	9.1	.6	.0	.0	119	22.8	7.1	19.1	12.2	12.2	25.9	34.7	34.7	34.7	34.7								
NW	4.8	3.1	.1	.0	.0	42	8.0	6.4	5.0	8.1	8.1	5.4	14.5	14.5	14.5	14.5								
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0								
CALM	14.7	.0	.0	.0	.0	77	14.7	.0	22.8	10.3	10.3	10.1	14.9	14.9	14.9	14.9								
TOT OBS	329	189	7	0	0	525	100.0	5.8	136	129	139	121	121	121	121	121								
TOT PCT	62.7	36.0	1.3	.0	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0								

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
	1-3	4-10	11-21	22-29			
0000	22.8	53.7	7.4	.0	5.1	100.0	136
0600	10.9	62.0	10.9	.0	6.0	100.0	129
1200	10.1	61.2	11.2	.0	5.2	100.0	139
1800	14.9	57.9	14.9	.0	6.0	100.0	121
TOT	77	308	38	1	5.8	100.0	525
PCT	14.7	58.7	11.0	.2	.0	100.0	

TABLE 5

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

WIND DIR	PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)								TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-6	8-6	8-6	8-6	8-6		
N	3.6	.0	.0	.0	.0	.0	.0	.0	13	.0
NE	7.1	.6	.6	1.3	.0	.0	.0	.0	33	1.7
E	10.4	1.3	.8	1.0	.0	.0	.0	.0	48	1.6
SE	6.4	.1	1.3	.0	.0	.0	.0	.0	20	1.6
S	7.2	.3	1.1	.2	.0	.0	.0	.0	31	1.4
SW	12.0	.6	.5	.2	.0	.0	.0	.0	47	.6
W	20.0	.7	.8	.1	.0	.0	.0	.0	77	.5
NW	6.3	.7	.6	.6	.0	.0	.0	.0	29	1.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
CALM	13.2	.3	.8	1.4	.0	.0	.0	.0	56	1.3
TOT OBS	301	16	23	17	357	1.1				
TOT PCT	84.3	4.5	6.4	4.8	100.0					

TABLE 6

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

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH > 4/8 AND OCCURRENCE UP NH < 5/8 BY WIND DIRECTION										TOTAL OBS	
	000	150	300	600	1000	2000	3500	5000	6500	8000+		ANY HGT
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	48
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	47
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	77
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	56
TOT OBS	2	2	0	0	1	0	3	6	3	0	7	357
TOT PCT	.6	.6	.0	.3	.3	.6	.8	.8	.8	.0	2.0	95.0

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1913-1970

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TABLE 7

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

CEILING (FEET)	OR		OR		OR		OR		OR		CR
	>10	>5	>2	>1	>1/2	>1/4	>50%	>0			
OR >6500	.5	1.0	1.8	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
OR >6000	.8	1.8	2.6	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
OR >3500	.8	2.6	3.3	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
OR >2000	1.3	3.1	3.9	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
OR >1000	1.3	3.1	3.9	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
OR >600	1.3	3.1	4.1	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
OR >300	1.3	3.1	4.1	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
OR >150	1.3	3.1	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
OR > 0	1.3	3.3	4.4	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
TOTAL	5	13	17	18	18	18	18	18	18	18	18

TOTAL NUMBER OF OBS: 389 PCT FREQ NH <5/9: 95.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	C6S0	TOTAL
79.9	7.4	3.7	1.5	1.0	1.5	.2	2.0	1.7	1.0	4.03	403



PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1910-1973

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TABLE 8

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

VSBY (MM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2
TOT %	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.2	.0	.0	.0	.0	.1	.2	.0	.0	.0	.0	.5
TOT %	.2	.0	.0	.0	.0	.1	.2	.0	.0	.0	.0	.5
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.5	.0	.2	.5	.7	.0	.0	.0	.0	1.9
TOT %	.0	.0	.5	.0	.2	.5	.7	.0	.0	.0	.0	1.9
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.2	.6	.6	1.0	.6	2.2	.2	.0	1.4	.0	7.0
TOT %	.0	.2	.6	.6	1.0	.6	2.2	.2	.0	1.4	.0	7.0
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	1.1	2.8	6.7	2.9	4.0	5.6	8.1	2.9	.0	7.5	41.6	61.6
TOT %	1.1	2.8	6.7	2.9	4.0	5.6	8.1	2.9	.0	7.5	41.6	61.6
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	2.5	5.1	5.9	3.0	3.7	6.6	10.8	4.0	.0	7.0	48.6	68.6
TOT %	2.5	5.1	5.9	3.0	3.7	6.6	10.8	4.3	.0	7.0	48.6	68.6
TOT OBS	3.9	8.1	13.9	6.5	9.0	13.3	21.9	7.4	.0	15.9	100.0	416
TOT PCT												

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PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1910-1970

TABLE 9

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

VSBY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.2	.0	.0	.0	.0	.1	.2	.0	.0	.0	.4
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.2	.0	.0	.0	.0	.1	.2	.0	.0	.0	.4
1<2	0-3	.0	.0	.3	.1	.0	.0	.0	.0	.0	.0	.4
	4-10	.0	.0	.2	.2	.2	.4	.6	.0	.0	.0	1.6
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.5	.3	.2	.4	.6	.0	.0	.0	2.0
2<5	0-3	.2	.0	.0	.0	.4	.0	.2	.0	.0	1.4	2.2
	4-10	.1	.2	.4	.2	.4	.6	1.5	.3	.0	.0	3.6
	11-21	.0	.0	.3	.3	.1	.1	.4	.0	.0	.0	1.2
	TOT %	.3	.2	.7	.5	.9	.7	2.1	.3	.0	1.4	7.1
5<10	0-3	.6	.3	.7	.3	.8	.8	1.5	.8	.0	6.7	12.6
	4-10	.4	1.7	4.0	2.3	2.8	3.9	6.6	1.8	.0	.0	23.5
	11-21	.0	.6	1.0	.0	.3	1.1	.5	.2	.0	.0	3.6
	TOT %	1.0	2.6	5.9	2.5	3.8	5.9	8.5	2.8	.0	6.7	39.7
10+	0-3	.5	1.0	1.4	.6	1.5	1.2	1.4	.9	.0	6.5	15.0
	4-10	2.0	3.5	3.6	1.9	2.0	6.6	8.4	2.8	.0	.0	30.8
	11-21	.1	.5	1.0	.1	.2	.6	1.7	.8	.0	.0	4.7
	TOT %	2.6	5.0	6.0	2.5	3.6	8.2	11.6	4.5	.0	6.5	50.3
TOT OBS		494										
TOT PCT		4.1	7.8	13.2	5.9	8.5	15.3	22.9	7.6	.0	14.5	100.0

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1910-1970

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TABLE 10

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

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL NH <5/8 OBS
	149	299	599	999	1999	3999	4999	6499	7999				OBS
00003	.0	.0	.0	1.0	.0	1.0	1.0	1.0	.0	1.0	4.8	95.2	105
05609	.9	.0	.0	.0	.0	.0	1.9	1.9	.0	3.8	8.5	91.5	106
12315	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	2.1	57.9	95
18821	17.1	.0	.0	.0	.0	1.1	.0	.0	.0	1.1	3.2	96.7	90
TOT	.2	0	0	1	0	2	3	3	0	8	19	377	396
PCT	.5	.0	.0	.2	.0	.5	.8	.8	.0	2.0	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
00003	.0	.0	1.9	3.8	34.3	60.0	105
05609	.0	.0	1.0	5.8	49.0	44.2	104
12315	.0	.0	1.1	6.5	44.1	48.4	93
18821	.0	.0	1.1	4.5	36.0	58.4	89
TOT	0	0	5	20	160	206	391
PCT	.0	.0	1.3	5.1	40.9	52.7	100.0

TABLE 12

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

HOUR (GMT)	<150	<600	<1000	1000+ ANOS+	NH <5/8 AND 5+	TOTAL OBS
00003	1.0	1.0	5.7	2.9	91.4	105
05609	1.0	1.0	6.7	5.8	87.5	104
12315	.0	.0	7.5	1.1	91.4	93
18821	1.1	1.1	6.7	2.2	91.0	89
TOT	3	3	26	12	393	391
PCT	.8	.8	6.6	3.1	90.3	100.0

JULY

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1910-1970

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY 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	.3	1.3	2.8	2.8	1.6	.0	25	7.9
90/84	.0	.0	.0	1.3	6.0	20.4	22.6	3.1	170	53.5
85/79	.0	.0	.0	.0	.6	4.7	20.4	12.3	121	38.1
80/84	.0	.0	.0	.0	.0	.3	.3	.0	2	.6
TOTAL	.0	.0	1	8	30	90	140	49	318	100.0
PCT	.0	.0	.3	2.5	9.4	28.3	44.0	15.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
95/99	.3	.9	1.1	.5	1.0	.6	1.3	.6	.0	1.6
90/84	2.6	6.7	9.7	1.7	3.7	8.1	10.6	5.1	.0	3.0
85/79	1.0	1.3	3.2	3.0	3.9	6.5	8.2	2.7	.0	8.2
80/84	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
TOTAL	12	28	44	16	27	48	64	26	0	48
PCT	4.2	9.0	14.0	5.2	8.6	15.2	20.4	8.4	.0	15.1

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0003	95	93	91	89	85	85	84	84	88.6	144
0609	99	97	95	91	87	85	84	81.3	91.3	144
1215	99	98	97	95	92	88	85	92.0	92.0	136
1821	95	94	93	90	86	85	84	89.6	89.6	125
TOT	99	97	95	90	86	85	84	90.4	90.4	549

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0003	.0	.0	.0	2.2	11.0	52.7	34.1	.0	87	31
0609	.0	3.2	10.8	31.2	46.2	8.6	.0	.0	79	73
1215	.0	6.0	22.9	48.2	21.7	1.2	.0	.0	73	81
1821	.0	1.3	5.0	23.8	59.0	15.0	.0	.0	83	87
TOT	0	9	25	98	159	52	0	0	80	337

PERIOD: (PRIMARY) 1947-1970  
 (OVER-ALL) 1910-1970

AREA 002: S. E. PERSIAN GULF  
 26.1N 54.7E

JULY

TABLE 17

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

AIR-SEA TMP DIF	81	85	89	93	MO
	84	88	92	96	FOG
11/13	.0	.0	.0	.0	2
9/10	.0	.0	.3	.3	6
7/8	.0	.0	.3	1.1	13
6	.0	.0	.0	1.6	8
5	.0	.3	1.9	2.4	17
4	.0	.5	2.9	2.4	22
3	.0	.0	4.0	4.5	22
2	.0	.8	6.9	2.7	39
1	.0	2.1	11.7	.8	55
0	.0	3.2	13.9	1.1	68
-1	.0	5.1	8.0	.0	49
-2	.0	2.9	5.1	.0	30
-3	.0	1.6	1.9	.0	13
-4	.3	3.5	.0	.0	14
-5	.0	.8	.0	.0	3
-6	.0	.8	.0	.0	3
-7/-8	.0	.3	.0	.0	1
TOTAL	1	82	213	63	375
PCT	.3	21.9	56.8	16.8	100.0
					2.1
					95.7

JULY  
 TABLE 18  
 AREA CORR S. E. PERSIAN GULF  
 26.1N 54.7E

PERIOD: (PRIMARY) 1963-1970  
 (OVER-ALL) 1963-1970  
 PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N					NE					48+	PCT
	1-3	4-10	11-21	22-33	34-47	48+	4-10	11-21	22-33	34-47		
<1	.0	3.9	.0	.0	.0	.0	2.3	.0	.0	.0	.0	2.9
1-2	.0	1.0	.0	.0	.0	.0	4.7	.0	.0	.0	.0	4.7
3-4	.0	.0	.0	.0	.0	.0	.0	2.1	.0	.0	.0	2.1
5-5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.9	.0	.0	.0	.0	7.0	2.1	.0	.0	.0	9.1

HGT	E					SE					48+	PCT
	1-3	4-10	11-21	22-33	34-47	48+	4-10	11-21	22-33	34-47		
<1	2.1	4.7	.0	.0	.0	.0	1.6	.0	.0	.0	.0	2.6
1-2	1.0	5.7	.0	.0	.0	.0	1.0	1.0	.0	.0	.0	2.1
3-4	.0	1.0	1.0	.0	.0	.0	1.0	.0	.0	.0	.0	1.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.1	11.5	1.0	.0	.0	.0	15.6	1.0	1.0	.0	.0	5.7

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	3.9	1.8	.8	.0	.0	.0	6.5	1.3	5.5	2.3	.0	.0	.0	7.0
1-2	.0	1.6	.0	.0	.0	.0	1.6	1.0	12.5	.3	.0	.0	.0	13.8
3-4	.0	.8	.0	.0	.0	.0	.8	.0	.3	2.1	.0	.0	.0	2.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.9	4.2	.8	.0	.0	.0	8.9	2.3	18.2	2.6	.0	.0	.0	23.2

HGT	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	2.9	.0	.0	.0	.0	3.9	3.1	.3	1.0	.0	.0	.0	4.4
1-2	1.0	8.1	2.9	.0	.0	.0	12.0	.0	6.0	2.1	.0	.0	.0	8.1
3-4	.0	2.1	.0	.0	.0	.0	2.1	.0	.0	1.0	.0	.0	.0	1.0
5-6	.0	1.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.1	14.1	2.9	.0	.0	.0	19.0	3.1	6.3	4.2	.0	.0	.0	13.5

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

JULY

AREA 0032 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TUT SSS
	0-3	4-10	11-21	22-33	34-47	48+	PCT				
<1	25.4	19.3	1.8	.0	.0	.0	46.0				
1-2	3.5	34.2	5.3	.0	.0	.0	43.0				
3-4	.0	4.4	5.3	.0	.0	.0	9.6				
5-6	.0	.9	.0	.0	.0	.0	.9				
7	.0	.0	.0	.0	.0	.0	.0				
8-9	.0	.0	.0	.0	.0	.0	.0				
10-11	.0	.0	.0	.0	.0	.0	.0				
12	.0	.0	.0	.0	.0	.0	.0				
13-16	.0	.0	.0	.0	.0	.0	.0				
17-19	.0	.0	.0	.0	.0	.0	.0				
20-22	.0	.0	.0	.0	.0	.0	.0				
23-25	.0	.0	.0	.0	.0	.0	.0				
26-32	.0	.0	.0	.0	.0	.0	.0				
33-40	.0	.0	.0	.0	.0	.0	.0				
41-48	.0	.0	.0	.0	.0	.0	.0				
49-60	.0	.0	.0	.0	.0	.0	.0				
61-70	.0	.0	.0	.0	.0	.0	.0				
71-86	.0	.0	.0	.0	.0	.0	.0				
87+	.0	.0	.0	.0	.0	.0	.0				114
TOT PCT	28.9	58.8	12.3	.0	.0	.0	100.0				

TABLE 19

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

PERIOD (SEC)	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)										87+ TOTAL	MEAN HGT											
	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19			20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86			
<6	14.0	27.6	10.3	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	159	2
6-7	.7	1.7	2.3	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	3
8-9	.0	.7	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	4
10-11	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	7
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	0
13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	118	0
INDET	32.9	5.0	.7	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	301	1
TOTAL	143	106	41	9	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	301	
PCT	47.5	35.2	13.6	3.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	



AREA 0022 5. E. PERSIAN GULF  
16.2N 54.7E

AUGUST

PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1907-1970

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN		RAIN SHWR		DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ		TOTAL	OTHER WEATHER PHENOMENA						TOTAL	
	SHWR	SHWR	PCPN	FRZG		SNOW	OTHER	FRZN		PCPN	THDR		LTNG	PCPN	NO	MD	HAZE	BLWG		DUST
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	14
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	1.4	.0	.0	.0	.0	.0	41
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	3.0	.0	.0	.0	.0	.0	67
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	1.6	.0	.0	.0	.0	.0	41
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.8	.0	.0	.0	.0	.0	29
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	2.3	.0	.0	.0	.0	.0	57
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	2.3	.0	.0	.0	.0	.0	81
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	1.1	.0	.0	.0	.0	.0	29
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	1.4	.0	.0	.0	.0	.0	72
TOT OBS	0	0	0	0	0	0	0	0	0	0	0	0	.5	51	.0	.0	.0	.0	.0	435
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	1.1	14.0	.0	.0	.0	.0	.0	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN		RAIN SHWR		CRZL	PRECIPITATION TYPE			HAIL	PCT FREQ		TOTAL	OTHER WEATHER PHENOMENA						TOTAL	
	SHWR	SHWR	PCPN	FRZG		SNOW	OTHER	FRZN		PCPN	THDR		LTNG	PCPN	NO	MD	HAZE	BLWG		DUST
00003	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	16.2	.0	.0	.0	.0	.0	117
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	13.0	.0	.0	.0	.0	.0	123
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	10.6	.0	.0	.0	.0	.0	113
18021	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	9.4	.0	.0	.0	.0	.0	117
TOT	0	0	0	0	0	0	0	0	0	0	0	0	5	63	.0	.0	.0	.0	.0	470
PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	1.1	13.8	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1907-1970

AUGUST

AREA 0022 S. E. PERSIAN GULF  
26.2N 54.7E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HEUW (GMT)							
	0-3	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	2.3	.2	.0	.0	.0	21	3.6	5.9	2.5	5.3	5.1	1.5	2.1	3.0	3.7	7.4	
NE	1.7	6.8	1.1	.0	.0	.0	58	9.7	6.7	11.3	34.2	17.6	18.2	3.4	.0	3.4	5.9	
E	3.6	9.0	1.5	.2	.0	.0	67	14.3	6.8	16.0	21.1	21.7	19.7	13.3	4.0	6.5	11.8	
SE	1.5	6.3	1.3	.0	.0	.0	52	9.1	6.4	11.0	2.6	12.7	9.1	8.1	.0	6.9	11.8	
S	1.1	5.0	.8	.0	.0	.0	39	6.8	7.0	12.1	5.3	6.3	4.5	6.4	12.0	3.4	2.9	
SW	1.5	9.7	2.6	.0	.0	.0	77	13.4	7.5	7.3	15.8	7.5	10.6	28.6	8.0	12.3	10.3	
W	3.6	13.5	2.5	.0	.0	.0	113	19.7	6.9	11.3	7.9	12.5	25.8	16.1	44.0	33.5	20.6	
NW	2.2	5.8	1.3	.0	.0	.0	53	9.2	6.3	10.2	7.9	3.1	4.5	5.9	18.0	13.8	20.6	
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	14.2	.0	.0	.0	.0	.0	82	14.2	.0	18.3	.0	13.4	6.1	16.1	8.0	16.4	8.8	
TOT OBS	177	334	65	1	0	0	577		5.8	120	19	112	33	118	25	116	34	
TOT PCT	30.7	57.9	11.3	.2	.0	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)						
	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPO		00	03	06	09	12	15	18	21
N	2.0	1.0	.0	.0	.0	21	3.6	5.4	2.9	2.9	4.3	4.3	2.8	4.5			
NE	5.5	4.0	.1	.0	.0	55	9.7	6.7	14.4	17.8	17.8	2.8	4.0	4.0			
E	7.9	9.9	.3	.2	.0	82	14.3	6.8	16.7	21.2	21.2	11.7	7.7	7.7			
SE	5.9	3.2	.0	.0	.0	52	9.1	6.4	9.9	11.9	11.9	6.6	8.0	3.3			
S	3.5	3.3	.0	.0	.0	39	6.8	7.0	11.2	5.9	5.9	7.3	3.3	3.3			
SW	7.0	6.0	.4	.0	.0	77	13.4	7.5	8.3	8.3	25.0	11.8	11.8	11.8			
W	10.7	8.5	.4	.0	.0	113	19.7	6.9	10.8	15.5	15.5	21.0	30.7	30.7			
NW	6.1	3.0	.1	.0	.0	53	9.2	6.3	9.9	3.4	3.4	8.0	15.3	15.3			
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0			
CALM	14.2	.0	.0	.0	.0	82	14.2	.0	15.8	11.7	11.7	14.7	14.7	14.7			
TOT OBS	367	332	7	1	0	577		5.8	139	145	145	150	150	150			
TOT PCT	63.6	35.0	1.2	.2	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0			

AUGUST  
 TABLE 4  
 PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

PERIOD: (PRIMARY) 1948-1970  
 (OVER-ALL) 1907-1970

AREA 0022 S. E. PERSIAN GULF  
 26.2N 54.7E

HOUR	WIND SPEED (KNOTS)				PCT		TOTAL OBS
	1-3	4-10	11-21	22-33	34-47	48+	
0603	15.1	57.0	15.1	.0	.0	5.9	139
0609	11.7	59.3	8.3	.0	.0	5.6	145
12615	14.7	60.8	9.8	.0	.0	5.8	243
18621	14.7	57.3	12.0	.7	.0	6.0	150
TOT	12	95	65	1	0	5.8	577
PCT	14.2	16.5	11.3	.2	.0	100.0	

TABLE 5

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

WIND DIR	PCT FREQ							TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-6	8-6	8-6	8-6		
N	2.9	.3	.1	.0	.0	.0	.0	12	.9
NE	8.2	.5	.1	.9	.3	.3	.3	34	.7
E	13.1	1.9	.8	.0	.0	.0	.0	61	1.0
SE	7.0	.3	1.3	.0	.0	.0	.0	32	1.1
S	5.0	.5	.9	.5	.5	.5	.5	26	1.9
SW	11.0	.9	.7	.3	.3	.3	.3	51	1.0
W	16.0	.3	1.0	.3	.0	.3	.3	69	1.7
NW	3.6	1.0	.0	.0	.0	.0	.0	26	1.0
VAR	.0	.0	.0	.0	.0	.0	.0	0	.0
CALM	15.5	1.3	.8	.0	.0	.0	.0	67	.6
TOT OBS	326	26	23	6	6	6	6	381	.9
TOT PCT	85.3	6.8	6.0	1.6	1.6	1.6	1.6	100.0	

TABLE 6

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

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)										NH <5/8	TOTAL OBS	
	000	149	150	299	300	599	600	1600	3000	5000			8000+
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	12
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	34
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	61
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	51
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	69
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	67
TOT OBS	0	0	0	0	0	0	0	0	0	0	0	0	381
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1949-1970  
(COVER-ALL) 1907-1970

AUGUST

AREA 0022, S. E., PERSIAN GULF  
26.2N 54.7E

TABLE 7

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

CEILING (FEET)	VSBY (NM)									
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0		
OR >6500	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
OR >5000	1.2	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
OR >3500	1.5	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
OR >2000	1.7	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
OR >1000	1.9	2.9	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
OR >600	2.4	3.4	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
OR >300	2.4	3.4	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
OR >150	2.4	3.4	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
OR >0	2.4	3.4	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
TOTAL	10	14	15	15	15	15	15	15	15	15

TOTAL NUMBER OF OBS: 412 PCT FREQ NH <5/61 96.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

C	1	2	3	4	5	6	7	8	OBSCO	TOTAL
76.4	10.3	4.5	2.2	1.9	1.1	.6	.9	.9	.2	465

AUGUST

PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1907-1970

TABLE 8

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

VSBY (NM)	PCP	NO PCP	TOT %	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
																1/2<1
1/2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	3.3	9.5	15.6	9.6	6.8	13.1	18.7	6.9	.0	16.6	100.0					
TOT PCT																434

PERIOD: (PRIMARY) 1968-1970  
(OVER-ALL) 1907-1970

AUGUST

AREA 0022 S. E. PERSIAN GULF  
26.2N 54.7E

TABLE 9

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

WSBY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
	4-10	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.3	.1	.0	.0	.4	
1<2	0-3	.0	.0	.0	.0	.2	.0	.1	.1	.0	.0	.4	
	4-10	.1	.1	.2	.1	.0	.2	.0	.1	.0	.0	.7	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.1	.2	.3	.2	.2	.1	.2	.0	.0	1.3	
2<5	0-3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.7	.9	
	4-10	.0	.2	.1	.4	.4	.8	.6	.0	.0	.0	2.6	
	11-21	.0	.0	.4	.0	.0	.4	.1	.0	.0	.0	.9	
	TOT %	.0	.4	.5	.4	.4	1.2	.8	.0	.0	.7	4.4	
5<10	0-3	.2	.9	1.3	.6	.0	.2	1.1	.4	.0	4.0	8.6	
	4-10	.6	1.7	3.9	1.7	1.5	2.8	2.9	1.2	.0	.0	16.2	
	11-21	.2	.3	.7	.2	.5	.6	1.1	.2	.0	.0	3.9	
	TOT %	1.0	2.9	5.9	2.4	2.0	3.5	5.1	1.8	.0	.0	28.7	
10+	0-3	1.0	.7	2.6	.8	.4	1.0	2.2	1.6	.0	9.7	20.0	
	4-10	1.6	4.4	5.1	4.3	3.2	5.7	10.1	4.0	.0	.0	38.4	
	11-21	.0	.9	.5	1.1	.3	1.4	1.2	1.1	.0	.0	6.4	
	TOT %	2.6	6.0	8.3	6.2	4.0	8.0	13.5	6.7	.0	.0	65.1	
TOT OBS												544	
TOT PCT		3.7	9.3	14.9	9.3	6.5	13.0	19.8	8.8	.0	14.7	100.0	

PERIOD (PRIMARY) 1948-1970  
(OVER-ALL) 1907-1970

AUGUST

APEA 0022 S. E. PERSIAN GULF  
26.2N 54.7E

TABLE 10

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

HOUR (GMT)	000		150		300		600		1000		2000		3500		5000		6500		8000+		TOTAL NH < 5/8 ANY HG.		TOTAL OBS	
	149	299	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
00003	0	0	0	0	0	0	0	1.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06009	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12015	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18021	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOT	0	0	0	0	0	0	0	2	3	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0
PCT	0	0	0	0	0	0	0	0.4	0.6	0.4	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 11

PERCENT FREQUENCY VS8Y (NM) 9Y HOUR

HOUR (GMT)	<1/2		1/2-1		1-2		2-5		5-10		10+		TOTAL OBS
	0	0	0	0	0	0	0	0	0	0	0	0	
00003	0	0	0	0	0	0	0	0	0	0	0	0	0
06009	0	0	0	0	0	0	0	0	0	0	0	0	0
12015	0	0	0	0	0	0	0	0	0	0	0	0	0
18021	0	0	0	0	0	0	0	0	0	0	0	0	0
TOT	0	0	0	0	0	0	0	0	0	0	0	0	0
PCT	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE 12

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

HOUR (GMT)	<150		<600		<1000		1000+ NH < 5/8 AND 5+		TOTAL OBS
	<5000	<1	<1	<1	<1	<1	<1		
00003	0	0	0	0	0	0	0	0	0
06009	0	0	0	0	0	0	0	0	0
12015	0	0	0	0	0	0	0	0	0
18021	0	0	0	0	0	0	0	0	0
TOT	1	1	1	1	1	1	1	1	1
PCT	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

AUGUST

AREA 0022 S. E. PERSIAN GULF  
26.2N 54.7E

PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1907-1970

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL DBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS			
100/104	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	1	.3
95/98	.0	.0	.0	2.6	4.7	3.7	1.0	.3	.0	.0	47	12.3
90/94	.0	.0	.0	.0	8.7	28.4	27.6	6.1	.0	.0	278	73.0
85/89	.0	.0	.0	.0	.0	2.1	.0	5.0	.0	.0	54	14.2
80/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.3
TOTAL	.0	.0	.0	11	51	131	137	51	.0	.0	381	100.0
PCT	.0	.0	.0	2.9	13.4	34.4	36.0	13.4	.0	.0		

TABLE 14

TEMP	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										VAR CALM	
	N	NE	E	SE	S	SW	W	NW	VAR	CALM		
100/104	.0	1.3	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
95/98	.3	5.9	11.9	5.6	3.9	11.4	2.8	1.1	.0	.0	.0	1.6
90/94	.7	2.4	2.2	1.1	1.6	.6	1.2	5.4	.0	.0	.0	9.2
85/89	.0	.0	.0	.0	.0	.0	.2	1.6	.0	.0	.0	2.9
80/84	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
TOTAL	15	36	61	30	22	52	79	31	.0	.0	.0	53
PCT	4.0	9.6	16.0	7.9	5.8	13.8	20.9	8.1	.0	.0	.0	13.9

TABLE 15

HOUR (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL DBS
	HAX	99%	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL DBS	
00003	94	93	93	90	87	86	84	89.9	84	89.9	153
06009	99	98	96	92	89	87	86	92.3	86	92.3	146
12015	100	99	98	93	89	87	85	93.2	85	93.2	146
18021	97	95	93	91	87	86	84	90.5	84	90.5	152
TOT	100	98	96	91	88	86	84	91.4	84	91.4	597

TABLE 16

HOUR (GMT)	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL DBS
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS	
00003	.0	.0	.0	.0	4.6	24.8	45.9	24.8	84	84	109
06009	.0	3.1	11.5	53.1	26.0	6.3	77	96	77	96	101
12015	.0	6.9	30.7	33.6	21.8	5.0	73	101	73	101	105
18021	.0	1.0	6.7	27.6	49.5	15.2	82	105	82	105	105
TOT	0	11	54	143	149	57	70	411	70	411	1611



PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1907-1970

AUGUST

AREA 0022 S. E. PERSIAN GULF  
26,2N 54.7E

TABLE 17

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

AIR-SEA TMP DIF	81	85	89	93	TOT	W	VS FOG
	84	88	92	96		FOG	FOG
9/10	.0	.0	.0	.3	3	.0	.5
7/8	.0	.0	.0	.8	9	.0	1.9
6	.0	.0	.0	1.0	10	.3	1.5
5	.0	.0	.5	1.0	19	.0	2.0
4	.0	.0	1.3	1.0	18	.0	3.8
3	.0	.0	2.3	4.3	32	.0	7.7
2	.0	.0	3.6	4.3	31	.5	7.4
1	.0	.0	6.6	4.6	44	.0	11.2
0	.0	1.0	16.8	3.1	82	.3	20.7
-1	.0	1.5	9.9	1.0	49	.0	12.5
-2	.0	2.3	12.2	.3	58	.3	14.5
-3	.3	1.8	4.1	.0	24	.0	6.1
-4	.0	.3	2.3	.3	11	.0	2.8
-5	.0	.5	1.0	.0	6	.0	1.5
-6	.0	.5	.0	.0	2	.0	.5
-7/-8	.0	.3	.3	.0	3	.0	.8
-9/-10	.0	.3	.0	.0	1	.0	.3
TOTAL	1	34	239	90	392	3	373
PCT	.3	8.7	61.0	23.0	100.0	1.3	95.2

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

AUGUST  
TABLE 18

AREA 0022 S. E. PAKISIAN GULF  
26.2N 56.7E

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

HGT	N										NE										PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT							
<1	1.0	2.9	.0	.0	.0	.0	3.9	1.0	1.0	.0	.0	.0	.0	3.0							
1-2	.0	1.7	.0	.0	.0	.0	1.7	1.0	1.0	.0	.0	.0	.0	3.4							
3-4	.0	.0	.0	.0	.0	.0	.0	2.9	.0	.0	.0	.0	.0	2.9							
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
TOT PCT	1.0	4.7	.0	.0	.0	.0	5.5	2.0	5.4	1.0	.0	.0	.0	6.3							

HGT	E										SE										PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT							
<1	3.9	3.9	.0	.0	.0	.0	9.8	.0	3.9	.0	.0	.0	.0	3.9							
1-2	.0	1.7	.0	.0	.0	.0	1.7	.0	2.0	2.9	.0	.0	.0	4.9							
3-4	.0	2.7	1.0	.0	.0	.0	3.7	.0	.2	1.0	.0	.0	.0	1.2							
5-6	.0	2.0	.0	.0	.0	.0	2.0	1.0	.0	.0	.0	.0	.0	1.0							
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
TOT PCT	3.9	12.3	1.0	.0	.0	.0	17.2	1.0	6.1	3.9	.0	.0	.0	11.0							

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

AUGUST  
TABLE 18

ARFA 0022 S. E. PERSIAN GULF  
26.2N 54.7E

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

HGT	S					SW					TOT PCT			
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21		22-33	34-47	48+
<1	.0	1.2	.0	.0	.0	.0	1.5	1.0	5.4	1.0	.0	.0	.0	7.4
1-2	.0	2.0	.0	.0	.0	.0	2.0	.0	6.1	2.0	.0	.0	.0	8.1
3-4	.0	.0	1.0	.0	.0	.0	1.0	.0	2.0	2.0	.0	.0	.0	3.9
5-6	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.4	1.0	.0	.0	.0	5.4	1.0	13.5	5.1	.0	.0	.0	15.6

HGT	W					NW					TOT PCT			
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21		22-33	34-47	48+
<1	2.0	2.0	.0	.0	.0	.0	3.9	2.0	1.0	.0	.0	.0	.0	2.9
1-2	.0	10.5	1.0	.0	.0	.0	11.5	.0	5.9	.0	.0	.0	.0	5.9
3-4	.0	2.7	1.0	.0	.0	.0	3.7	.0	2.2	1.0	.0	.0	.0	3.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	1.7	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.0	15.2	3.7	.0	.0	.0	20.8	2.0	9.1	1.0	.0	.0	.0	12.0

PERIOD: (PRIMARY)  
(OVER-ALL) 19A3-1970

AUGUST

AREA 0022 S. E. PERSIAN GULF  
26.2N 54.7E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT				
<1	31.1	17.9	.7	.0	.0	.0	50.7				
1-2	.7	23.9	5.2	.0	.0	.0	29.9				
3-4	.0	9.7	5.2	.0	.0	.0	14.9				
5-6	.7	2.2	.0	.0	.0	.0	3.0				
7	.0	.0	1.5	.0	.0	.0	1.5				
8-9	.0	.0	.0	.0	.0	.0	.0				
10-11	.0	.0	.0	.0	.0	.0	.0				
12	.0	.0	.0	.0	.0	.0	.0				
13-16	.0	.0	.0	.0	.0	.0	.0				
17-19	.0	.0	.0	.0	.0	.0	.0				
20-22	.0	.0	.0	.0	.0	.0	.0				
23-25	.0	.0	.0	.0	.0	.0	.0				
26-32	.0	.0	.0	.0	.0	.0	.0				
33-40	.0	.0	.0	.0	.0	.0	.0				
41-48	.0	.0	.0	.0	.0	.0	.0				
49-60	.0	.0	.0	.0	.0	.0	.0				
61-70	.0	.0	.0	.0	.0	.0	.0				
71-86	.0	.0	.0	.0	.0	.0	.0				
87+	.0	.0	.0	.0	.0	.0	.0				
TOT PCT	33.6	53.7	12.7	.0	.0	.0	100.0	134			

TABLE 19

PERIOD (SEC)	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)										87+ TOTAL	MEAN HGT										
	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19			20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86		
<6	12.0	29.4	11.7	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	171	2
6-7	.0	.9	1.9	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	3
8-9	.3	.3	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	3
10-11	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	2
12-13	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
INDEX	33.9	4.7	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	125	0
TOTAL	146	114	49	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	316	1
PCT	46.2	36.1	15.5	1.3	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	0

PERIOD: (PRIMARY) 1940-1970  
 (UNKN-ALL) 1905-1970

TABLE 1  
 PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT WREQ PCPN AT 08 TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG PCPN	SNOW	OTHER					FRZG	FRZN	PCPN	FOG	
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2	.0	3.6	18
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	10.0	46
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	1.6	.2	9.9	52
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	5.9	27
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1	22
Sk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	10.8	48
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	1.1	23.8	117
NN	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	10.1	45
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.9	.7	11.8	60
TOT OBS	0	0	0	0	0	0	0	0	0	1	3	26	9	400	439
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.7	5.9	2.1	91.1	100.0

TABLE 2  
 PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT 08 TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG PCPN	SNOW	OTHER					FRZG	FRZN	PCPN	FOG	
0000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	2.7	94.9	110
0600	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	7.5	1.5	89.6	134
1200	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	8.2	2.5	88.5	122
1800	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	3.6	1.8	93.7	111
TOT	0	0	0	0	0	0	0	0	0	1	3	27	10	436	477
PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.6	5.7	2.1	91.4	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1940-1970  
(OVER-ALL) 1865-1970

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										WIND DIRECTION BY SPEED AND BY HOUR									
	0-3	4-5	6-7	8-9	10-11	12-13	14-15	16-17	18-19	20-21	22-23	00	03	06	09	12	15	18	21	
N	1.2	2.0	.7	.2	.0	.0	.0	.0	.0	.0	23	4.2	6.6	5.6	2.0	6.3	1.3	4.8	4.0	6.0
NE	1.9	8.0	1.1	.0	.0	.0	.0	.0	.0	.0	60	11.0	6.6	9.9	28.0	18.3	10.6	6.4	7.9	4.0
E	3.0	7.5	1.6	.0	.0	.0	.0	.0	.0	.0	57	12.2	7.0	8.9	14.0	19.2	19.4	12.7	7.2	8.0
SE	1.5	4.5	.6	.0	.0	.0	.0	.0	.0	.0	36	6.6	5.9	4.6	14.0	4.1	13.8	9.4	1.6	4.7
S	2.0	2.1	.5	.0	.0	.0	.0	.0	.0	.0	25	4.6	5.0	5.9	4.0	5.2	3.8	4.6	4.8	1.0
SW	2.1	7.5	.9	.0	.0	.0	.0	.0	.0	.0	59	10.8	6.1	7.4	6.0	11.0	12.5	20.0	9.7	5.7
W	3.9	17.2	3.1	.0	.0	.0	.0	.0	.0	.0	133	24.2	7.2	28.3	6.0	13.4	11.3	27.2	29.0	23.0
NW	3.1	7.1	1.6	.0	.0	.0	.0	.0	.0	.0	65	11.8	6.8	11.0	8.0	4.3	13.0	6.1	32.3	19.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	14.5	30.9	5.6	1	0	0	0	0	0	0	80	14.5	5.7	18.4	16.3	14.7	12.3	9.7	11.9	28.0
TOT OBS	184	309	10.2	.2	.0	.0	.0	.0	.0	.0	550	100.0	5.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
TOT PCT	33.5	56.2	10.2	.2	.0	.0	.0	.0	.0	.0	100.0	100.0	5.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										WIND DIRECTION BY SPEED AND BY HOUR					
	0-6	7-16	17-17	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPO	00	03	06	09	12	15	18	21
N	2.9	.9	.4	.0	.0	23	4.2	6.6	4.9	4.9	3.1	2.1	4.8	4.8	4.8	6.0
NE	6.2	4.8	*	.0	.0	60	11.0	6.6	13.6	16.3	6.4	6.4	7.1	7.1	7.1	
E	5.8	6.3	.1	.0	.0	67	12.2	7.0	10.4	19.2	10.3	10.3	7.3	7.3	7.3	
SE	4.7	1.8	.1	.0	.0	36	6.6	5.9	6.3	6.6	7.8	7.8	5.4	5.4	5.4	
S	3.7	.9	.1	.0	.0	25	4.6	5.0	5.3	7.1	4.7	4.7	.8	.8	.8	
SW	6.7	4.0	.0	.0	.0	59	10.8	6.1	7.1	11.4	17.8	17.8	5.6	5.6	5.6	
W	11.8	11.9	.5	.0	.0	133	24.2	7.2	23.4	12.8	27.6	27.6	34.9	34.9	34.9	
NW	3.9	5.7	.2	.0	.0	65	11.8	6.8	10.4	7.2	11.7	11.7	19.0	19.0	19.0	
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	14.5	30.9	5.6	1	0	80	14.5	5.7	17.9	14.1	11.7	11.7	15.1	15.1	15.1	
TOT OBS	342	200	8	0	0	350	100.0	5.7	123	136	145	145	128	128	128	
TOT PCT	62.2	36.4	1.5	.0	.0	100.0	100.0	5.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

SEPTEMBER

PERIOD (PRIMARY) 1940-1970  
(OVER-ALL) 1865-1970

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
	1-3	4-10	11-21	22-33				
0000	17.9	51.2	12.2	.0	.0	5.5	100.0	123
0609	14.1	55.1	7.1	.6	.0	5.2	100.0	156
1215	11.7	61.4	8.3	.0	.0	5.7	100.0	145
1821	15.1	56.3	14.3	.0	.0	5.3	100.0	126
TOT	60	309	56	1	0	5.7	100.0	550
PCT	14.5	56.2	10.2	.2	.0	5.7	100.0	

TABLE 5

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

WIND DIR	PCT FREQ OF TOTAL CLOUD AMOUNT (HEIGHTS) BY WIND DIRECTION						TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-6	BSCE	NSCE		
N	4.6	.3	.3	.0	.0	.0	19	.6
NE	10.8	.0	.3	.0	.0	.0	44	.3
E	11.5	.3	.0	.0	.0	.0	46	.2
SE	6.4	.1	.0	.0	.0	.0	25	.7
S	4.2	.4	.3	.0	.0	.0	19	1.2
SW	10.4	.1	.5	.0	.0	.0	43	.5
W	23.9	1.3	.3	.0	.0	.0	101	.4
NW	10.5	.1	.3	.0	.0	.0	43	.4
VAR	12.0	.0	.0	.0	.0	.0	0	.0
CALM	12.0	.3	.5	.3	.3	.3	54	.5
TOT OBS	376	11	9	1	1	1	397	.5
TOT PCT	94.7	2.8	2.3	.3	.3	.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >478 AND OCCURRENCE OF NH <578 BY WIND DIRECTION

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >478 AND OCCURRENCE OF NH <578 BY WIND DIRECTION										TOTAL OBS
	000	150	300	500	1000	2000	3500	5000	6000+	ANY HGT	
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19
NE	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	44
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	46
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	43
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	101
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	43
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	54
TOT OBS	0	0	1	0	1	1	1	0	0	0	397
TOT PCT	.0	.0	.3	.3	.3	.3	.3	.0	.0	.0	100.0

PERIOD (PRIMARY) 1940-1970  
(OVER-ALL) 1865-1970

SEPTEMBER

AREA 0032 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 7  
CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
OR >5000	.2	.2	.2	.2	.2	.2	.2	.2
OR >3500	.5	.5	.5	.5	.5	.5	.5	.5
OR >2000	.7	.7	.9	.9	.9	.9	.9	.9
OR >1000	.9	.9	1.2	1.2	1.2	1.2	1.2	1.2
OR >600	.9	.9	1.2	1.2	1.2	1.2	1.2	1.2
OR >300	.9	.9	1.4	1.4	1.4	1.4	1.4	1.4
OR >150	.9	.9	1.4	1.4	1.4	1.4	1.4	1.4
OR >0	.9	.9	1.4	1.4	1.4	1.4	1.4	1.4
TOTAL	4	4	6	6	6	6	6	6

TOTAL NUMBER OF OBS: 423

PCT FREQ NH <5/8: 98.6

TABLE 7A  
PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCO	TOTAL
77.7	11.8	5.4	1.4	1.4	1.4	.7	.5	.0	.2	.0	429



SEPTEMBER

PERIOD: (PRIMARY) 1940-1970  
(OVER-ALL) 1865-1970

AREA: 0022 S. E. PERSIAN GULF  
26.1N 56.7E

TABLE 8  
PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NH)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL DBS
<1/2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	.2	.2
	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	.2	.2
1/2<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
1<2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.2	.3	.2	.0	.0	.2	.0	.0	.0	.9	.9
	.0	.2	.3	.2	.0	.0	.2	.0	.0	.0	.9	.9
2<5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.9	1.4
	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.9	1.4
5<10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.5	.7	2.0	1.0	.6	1.9	6.0	2.2	.0	2.7	17.6	17.6
	.5	.7	2.0	1.0	.6	1.9	6.0	2.2	.0	2.7	17.6	17.6
10+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	3.7	9.6	9.5	5.1	4.3	9.2	20.3	8.0	.0	10.1	79.9	79.9
	3.7	9.6	9.5	5.1	4.3	9.2	20.3	8.0	.0	10.1	79.9	79.9
TOT DBS	4.1	10.6	11.8	6.4	5.1	11.2	26.9	10.2	.0	13.7	100.0	637
TOT PCT												

PERIOD: (PRIMARY) 1960-1970  
(OVER-ALL) 1865-1970

SEPTEMBER

AREA 0022 S. E. PERSIAN GULF  
20.1N 54.7E

TABLE 9

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

VSAY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	0-3	.2	.0	.4	.2	.2	.2	.9	1.0	.0	.0	3.3	6.4
	4-10	.4	.8	1.1	.7	.4	1.3	3.4	1.5	.0	.0	9.5	
	11-21	.0	.2	.2	.0	.0	.3	1.2	.2	.0	.0	2.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.6	1.0	1.7	.9	.6	1.8	5.5	2.7	.0	.0	3.3	18.1	
10+	0-3	1.1	6.0	2.5	.8	1.7	2.1	3.1	2.3	.0	9.9	25.5	
	4-10	1.4	7.3	6.3	3.6	1.7	6.5	13.7	6.0	.0	46.5		
	11-21	.7	.8	1.5	.6	.5	.6	1.9	1.1	.0	7.6		
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	3.2	10.2	10.0	5.0	3.9	9.2	18.7	9.4	.0	9.9	79.6		
TOT OR												514	
TOT PCT		3.8	11.4	12.0	6.0	4.7	11.0	24.8	12.2	.0	14.2	100.0	

SEPTEMBER

PERIOD (PRIMARY) 1940-1970  
(OVER-ALL) 1965-1970

AREA 0022 S. S. PERSIAN GULF  
26.1N 54.7E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 478) AND OCCURRENCE OF NH < 578 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH < 578 ANY HGT	TOTAL
00003	.0	.0	1.0	.0	.0	1.0	.0	.0	.0	.0	2.0	98.0	101
06009	.0	.0	.0	.0	.8	.8	.0	.8	.0	.0	2.3	97.7	128
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	105
18021	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	1.0	99.0	105
TOT	.0	0	1	0	1	2	1	1	0	0	6	433	439
PCT	.0	.0	.2	.0	.2	.5	.2	.2	.0	.0	1.4	98.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL
00003	.0	.0	.0	2.0	11.0	67.0	100
06009	.0	.0	.0	3.3	13.1	83.6	122
12015	.0	.0	2.0	1.0	14.0	83.0	100
18021	1.0	.0	1.0	.0	15.8	82.2	101
TOT	1	0	3	7	57	353	422
PCT	.2	.0	.7	1.7	13.5	83.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH > 478) BY HOUR

HOUR (GMT)	<150 <5000	<600 <1070 <1	1000+ AND 5+	NH < 578	TOTAL
00003	.0	1.0	2.0	.0	98.0
06009	.0	.0	3.3	2.5	94.3
12015	.0	.0	3.0	.0	97.0
18021	.0	1.0	2.0	1.0	97.0
TOT	0	2	11	4	408
PCT	.0	.5	2.6	.9	96.5

SEPTEMBER

PERIOD: (PRIMARY) 1940-1970  
(OVER-ALL) 1865-1970

AREA 0022 S. E. PERSIAN GULF  
26.1N 56.7E

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	TOTAL PCT FREQ
95/99	.0	.0	.0	.3	2.8	1.9	1.6	.0	18	5.6
90/94	.0	.0	.0	4.4	12.2	23.2	12.5	1.6	172	53.9
85/89	.0	.0	.0	.3	2.3	11.9	19.4	4.4	123	38.6
80/84	.0	.0	.0	.0	.0	1.6	.3	.0	6	1.9
TOTAL	.0	.0	.0	16	56	1.8	109	20	319	100.0
PCT	.0	.0	.0	5.0	17.6	27.0	34.2	6.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

TEMP	N	NE	E	SE	S	SW	W	NW	VAR	CALM
95/99	.6	.0	1.6	.9	.6	.6	.9	.0	.0	.6
90/94	1.6	7.2	7.7	3.4	2.4	4.7	13.5	6.6	.0	6.9
85/89	1.9	4.3	3.4	2.3	2.7	5.9	10.7	4.1	.0	4.4
80/84	.0	.3	.2	.5	.5	.1	.2	.0	.0	.0
TOTAL	13	37	37	23	19	35	80	34	0	38
PCT	4.1	11.8	11.8	7.2	6.2	11.1	25.2	10.7	.0	11.9

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
0000	94	93	91	88	85	82	81	88.1	132
0600	97	95	94	91	86	80	80	70.7	142
1200	100	99	97	92	88	86	86	92.0	153
1800	93	92	92	89	86	84	82	89.2	132
TOT	100	97	95	90	86	82	80	90.1	579

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-24	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
0000	.0	.0	9.1	27.3	51.1	12.5	81	88
0600	.0	4.0	19.2	47.5	25.3	4.0	76	99
1200	.0	13.1	38.1	31.0	15.5	2.4	70	84
1800	.0	1.3	6.6	46.1	42.1	3.9	79	76
TOT	0	16	64	132	115	20	77	347

PERIOD (PRIMARY) 1940-1970  
(OVER-ALL) 1865-1970

SEPTEMBER

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 17

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

AIR-SEA TMP DIF	77	81	85	89	93	TOT	W	FOG	WD
	70	84	88	92	96		FOG		FOG
7/8	.0	.0	.0	.2	1.0	7	.0	.0	1.5
6	.0	.0	.0	.0	.3	4	.0	.0	.7
5	.0	.0	.0	.2	1.2	8	.0	.0	1.7
4	.0	.0	.0	1.2	1.5	11	.0	.0	2.7
3	.0	.0	.2	1.3	4.6	26	.0	.0	6.3
2	.0	.0	.5	4.1	3.9	43	.5	.5	10.0
1	.0	.0	.2	8.0	2.2	43	.0	.0	10.5
0	.0	.0	3.4	12.2	1.5	70	.0	.0	17.1
-1	.0	.2	2.9	9.3	.2	52	.0	.0	12.7
-2	.0	.0	3.7	9.0	.2	53	.0	.0	12.9
-3	.2	.0	2.9	4.6	.2	35	.0	.0	8.3
-4	.0	.2	4.6	1.5	.0	26	.0	.0	6.3
-5	.0	.0	2.4	1.0	.0	14	.0	.0	3.4
-6	.0	.2	1.2	.7	.0	9	.0	.0	2.2
-7/-8	.0	.2	1.5	.2	.0	8	.0	.0	2.0
-9/-10	.0	.2	.0	.0	.0	1	.0	.0	.2
TOTAL	1	5	97	229	70	410	.2	.2	404
PCT	.2	1.2	23.7	55.9	17.1	100.0	.5	.5	98.5

SEPTEMBER  
TABLE 1B  
AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

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

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

HGT	N					NE					48+	PCT	
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33			34-47
<1	2.5	1.3	.0	.0	.0	.0	2.8	7.9	.0	.0	.0	.0	10.8
1-2	.0	.0	.0	.0	.0	.0	.0	7.6	.0	.0	.0	.0	7.6
3-4	.0	.0	.0	.0	.0	.0	.0	1.3	.3	.0	.0	.0	1.6
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.5	1.3	.0	.0	.0	.0	2.8	16.8	.3	.0	.0	.0	19.9

HGT	E					SE					48+	PCT	
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33			34-47
<1	4.7	2.2	.0	.0	.0	.0	1.3	2.3	.0	.0	.0	.0	3.8
1-2	1.3	3.8	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	1.3
3-4	.0	1.3	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	5.0	7.3	.9	.0	.0	.0	1.3	3.8	.0	.0	.0	.0	5.1

SEPTEMBER  
TABLE 18  
AREA 0022 S. E. PERSIAN GULF  
26-IN 54.7E

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

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

HGT	S				SW				48+	PCT			
	1-3	4-10	11-21	22-33	34-47	48+	11-21	22-33			34-47		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	.0	.0	.0	.0	.0	1.3	7.3	1.9	.0	.0	.0	11.7

HGT	W				NW				48+	PCT			
	1-3	4-10	11-21	22-33	34-47	48+	11-21	22-33			34-47		
<1	2.2	9.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	1.3	10.1	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	2.2	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.5	21.5	6.6	.0	.0	.0	31.6	6.6	6.1	1.6	.0	.0	12.3

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

SEPTEMBER

PERIOD (PRIMARY)  
(OVER-ALL) : 03-1070

TABLE 18 (CONT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT D S
<1	39.4	23.1	.0	.0	.0	.0	62.5	
1-2	2.9	20.2	1.9	.0	.0	.0	25.0	
3-4	1.0	2.9	3.8	.0	.0	.0	7.7	
5-6	.0	1.9	2.9	.0	.0	.0	4.8	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	43.3	49.1	8.7	.0	.0	.0	100.0	104

TABLE 19

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+ TOTAL	MEAN HGT	
<1	15.0	29.7	10.2	3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18.2
6-7	.0	.0	2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10
8-9	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDET	30.4	5.4	1.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9
TOTAL	142	113	24	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	313
PCT	45.4	36.1	14.1	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0



OCTOBER  
 AREA 0022 5. E. PERSIAN GULF  
 26.2N 54.8E

TABLE 1

PERIOD: (PRIMARY) 1949-1970  
 (OVER-ALL) 1906-1970

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN		RAIN SHWR		DRZL	PRECIPITATION TYPE			HAIL		PCT FREQ		TOTAL		OTHER WEATHER PHENOMENA				TOTAL				
	SHWR	SHR	PCPN	PCPN	PCPN	FRZG	SNOW	OTHER	PCPN	PCPN AT	OB TIME	PCPN	OBS	PCPN	OBS	PCPN	NO	BLNC	DUST	SIG	OBS		
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	12
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.7	43
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.1	54
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	20
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.9	30
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.7	63
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24.8	132
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.5	66
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15.5	87
TOT OBS	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	486
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	95.1	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN		RAIN SHWR		DRZL	PRECIPITATION TYPE			HAIL		PCT FREQ		TOTAL		OTHER WEATHER PHENOMENA				TOTAL				
	SHWR	SHR	PCPN	PCPN	PCPN	FRZG	SNOW	OTHER	PCPN	PCPN AT	OB TIME	PCPN	OBS	PCPN	NO	BLNC	DUST	SIG	OBS				
0000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	169
0600	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	153
1200	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.2	139
1800	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	119
TOT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	562
PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	100.0

OCTOBER  
 TABLE 3  
 PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR  
 AREA 0022 S. E. PERSIAN GULF  
 26.2H 54.8E

WIND DIR	WIND SPEED (KNOTS)										WIND DIRECTION BY SPEED AND BY HOUR											
	0-3	4-10	11-21	22-23	24-27	28-30	31-37	38-43	44-47	48+	TOTAL OBS	MEAN SPO	PCT FREQ	00	03	06	09	12	15	18	21	
N	1.2	1.3	.1	.0	.0	.0	.0	.0	.0	.0	15	2.5	5.0	3.0	.0	3.7	.0	.9	.0	.0	.0	5.0
NE	1.7	5.7	1.0	.0	.0	.0	.0	.0	.0	.0	50	8.4	6.7	7.4	6.3	15.9	9.4	6.6	5.6	2.9	2.7	5.0
E	2.5	6.5	1.5	.2	.0	.0	.0	.0	.0	.0	64	10.7	6.7	6.3	15.6	16.1	18.8	14.8	11.1	2.2	2.2	.0
SE	1.2	2.8	.3	.0	.0	.0	.0	.0	.0	.0	25	4.3	6.3	1.3	11.0	4.6	5.4	6.4	.0	3.7	.0	.0
S	1.5	3.6	.9	.1	.0	.0	.0	.0	.0	.0	37	6.2	6.8	5.6	12.5	5.1	12.5	6.2	5.3	4.6	5.0	.0
SW	2.4	7.7	1.8	.2	.0	.0	.0	.0	.0	.0	72	12.1	7.1	9.3	.0	13.9	3.1	16.3	13.9	8.7	30.0	.0
W	4.6	15.9	5.9	.2	.0	.0	.0	.0	.0	.0	153	26.5	7.9	25.9	18.8	21.3	21.9	28.0	41.7	31.0	31.3	.0
NW	1.3	7.3	2.2	.0	.0	.0	.0	.0	.0	.0	74	12.5	8.6	20.6	12.5	4.3	9.4	4.7	11.1	22.0	18.8	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	16.7	304	84	5	0	0	0	0	0	0	100	16.7	6.1	20.7	18.8	14.1	15.6	13.8	11.1	19.3	5.0	.0
TOT OBS	201	52.8	14.7	.8	.0	.0	.0	.0	.0	.0	598	100.0	6.1	13.4	16	135	32	132	18	109	20	.0
TOT PCT	23.4	52.8	14.7	.8	.0	.0	.0	.0	.0	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										WIND DIRECTION BY SPEED AND BY HOUR					
	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPO	00	03	06	09	12	15	18	21
N	2.0	.5	.0	.0	.0	15	2.6	5.0	2.6	.0	3.0	.8	.9	.0	.0	.0
NE	4.7	3.6	.2	.0	.0	50	8.4	6.7	7.3	14.7	6.5	3.9	3.9	.0	.0	.0
E	6.9	3.3	.5	.0	.0	64	10.7	6.7	7.3	16.6	14.4	2.7	2.7	.0	.0	.0
SE	2.3	2.1	.0	.0	.0	26	4.3	6.3	2.8	5.5	5.6	3.1	3.1	.0	.0	.0
S	3.9	1.9	.4	.0	.0	37	6.2	6.8	6.3	7.3	6.1	4.7	4.7	.0	.0	.0
SW	6.9	4.6	.0	.0	.0	72	12.1	7.1	8.3	11.8	16.2	12.0	12.0	.0	.0	.0
W	11.8	14.2	.5	.0	.0	158	26.5	7.9	25.2	21.4	29.6	21.0	21.0	.0	.0	.0
NW	5.0	6.4	.9	.0	.0	74	12.5	8.6	19.7	5.2	5.5	21.5	21.5	.0	.0	.0
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	16.7	304	84	5	0	100	16.7	6.1	20.5	14.4	15.2	17.1	17.1	.0	.0	.0
TOT OBS	353	219	18	1	0	598	100.0	6.1	151	167	151	129	129	.0	.0	.0
TOT PCT	60.2	36.6	3.0	.2	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

OCTOBER  
 AREA 0022 S. E. PERSIAN GULF  
 26.2N 54.8E

TABLE 4

PERIOD: (PRIMARY: 1949-1970  
 (OVER-ALL) 1906-1970

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)				PCT OBS
	0-10	11-21	22-33	34-47	
0600	20.5	15.9	46.4	15.9	100.0
0609	14.4	21.0	32.1	32.1	100.0
1200	15.2	16.6	51.7	15.7	100.0
1800	17.1	13.2	53.5	15.5	100.0
TOT	100	101	304	88	598
PCT	16.7	16.9	50.8	14.7	100.0

TABLE 5  
 PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
 BY WIND DIRECTION

WIND DIR	PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)								TOTAL OBS
	0-2	3-4	5-7	8-6	78500	MEAN CLOUD COVER			
N	1.7	.2	.0	.0	8	.5			
NE	8.9	.3	.2	.0	43	.4			
E	8.8	.9	.2	.0	46	.6			
SE	3.6	.2	.0	.0	17	.6			
S	5.0	.6	.0	.0	26	.7			
SW	12.3	.2	.0	.0	58	.2			
W	25.4	1.3	.0	.0	123	.3			
NW	11.8	.1	.0	.0	55	.0			
VALM	17.7	.6	.0	.0	63	.1			
TOT OBS	442	20	2	0	464	.3			
TOT PCT	55.3	4.3	.4	.0	100.0				

TABLE 6

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

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH > 4/8 AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION										TOTAL OBS	
	000	150	300	600	1000	2000	3500	5000	6500	8000+		ANY HGT
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	8
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.4	43
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.7	46
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	17
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	26
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.7	58
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25.7	123
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.9	55
VALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18.3	85
TOT OBS	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	463	464
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	99.8	100.0

PERIOD (PRIMARY) 1968-1970  
(OVER-ALL) 1906-1970

OCTOBER

AREA 0022 S. E. PERSIAN GULF  
26.2N 54.8E

TABLE 7

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

CEILING (FEET)	OR		OR		OR		OR		OR		CR
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0			
OR >6500	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
OR >5000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
OR >3500	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
OR >2000	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	
OR >1000	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	
OR >600	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	
OR >300	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	
OR >150	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	
OR >0	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	
TOTAL	1	1	1	1	1	1	1	1	1	1	

TOTAL NUMBER OF OBS 507 PCT FREQ NH <5/8 99.8

TABLE 7A

PERCENTAGE FREQ DF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL
	82.1	13.1	2.9	1.1	.6	.2	.0	.0	.0	.0	525

PERIOD: (PRIMARY) 1949-1970  
(OVER-ALL) 1906-1970

OCTOBER

AREA 0022 S. E. PERSIAN GULF  
26.2N 54.8E

TABLE 8

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

VSBY (NM)	PCP	NO PCP	TOT %	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	.0	.5	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10+	.0	.0	7.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	2.5	7.9	10.4	2.5	7.9	9.2	3.4	5.1	10.4	23.7	10.9	.0	16.2	89.4	511
TOT PCP	2.5	8.6	10.7	2.5	8.6	10.7	4.1	5.9	12.5	25.9	12.9	.0	17.0	100.0	

PEK100 (PRIMARY) 1949-1970  
(OVER-ALL) 1906-1970

OCTOBER

AREA 0022 S. E. PERSIAN GULF  
26.2N 54.8E

TABLE 9

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

VSRY	SPD	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL
(NH)	KTS												OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10+	0-3	1.2	1.7	2.5	1.0	1.1	2.1	4.4	1.7	.0	15.3	31.0	
	4-10	1.3	5.2	5.5	2.3	3.5	6.5	14.9	6.1	.0	45.3	45.3	
	11-21	.1	1.0	.7	.2	1.6	1.1	5.4	2.8	.0	12.0	12.0	
	TOT %	2.7	8.0	8.9	3.5	5.3	9.3	24.9	10.7	.0	15.3	89.2	
TOT OBS												581	
TOT PCT	2.7	8.6	10.7	4.2	6.0	12.0	26.9	12.5	.0	15.5	100.0		

PERIOD: (PRIMARY) 1949-1970  
 (COVER-ALL) 1900-1970

OCTOBER

AREA 0022 S. E. PERSIAN GULF  
 20.2N 54.8E

TABLE 10  
 PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NH >4/8) AND  
 OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 145	150 299	200 599	300 999	400 1999	500 4999	600 8499	700 7999	800+	TOTAL	NH <5/8 ANY HGT	TOTAL DBS
00003	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	140
06009	.0	.0	.0	.0	.7	.0	.0	.0	.0	.7	99.3	149
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	128
18021	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	108
TOT	0	0	0	0	1	0	0	0	0	1	52%	525
PCT	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	99.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	<2	2<5	5<10	10+	TOTAL DBS
00003	.0	.0	.0	.7	3.6	95.7	138
06009	.0	.0	.0	1.4	6.3	92.3	142
12015	.0	.0	.0	.0	5.7	94.3	122
18021	.0	.0	.0	.0	7.6	92.4	105
TOT	0	0	0	3	29	475	507
PCT	.0	.0	.0	.8	5.7	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+ AND 5+	NH <5/8 AND 5+	TOTAL DBS
00003	.0	.0	.0	.0	.0	138
06009	.0	.0	1.4	.7	97.9	142
12015	.0	.0	.0	.0	100.0	122
18021	.0	.0	.0	.0	100.0	105
TOT	0	0	3	1	503	507
PCT	.0	.0	.6	.2	99.2	100.0

OCTOBER

PERIOD: (PRIMARY) 1949-1970  
(OVER-ALL) 1906-1970

AREA 0022 S. E. PERSIAN GULF  
26.2N 54.8E

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	VAR			
95/99	.0	.0	.0	.0	.5	.2	.0	.0	.0	.0	3	.7
90/94	.0	.0	1.0	4.6	5.1	3.7	1.5	.5	.0	.0	67	16.3
85/89	.0	.0	2.2	7.6	16.3	20.7	11.5	3.4	.0	.0	253	61.7
80/84	.0	.0	.7	2.7	2.9	7.1	6.1	1.2	.0	.0	85	20.7
75/79	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	2	.5
TOTAL	.0	.0	1.6	6.1	10.2	13.2	7.8	2.1	.0	.0	410	100.0
PCT	.0	.0	3.9	14.9	24.9	32.2	19.0	5.1	.0	.0		

TABLE 14

TEMP	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										VAR	CALM
	N	NE	E	SE	S	SW	W	NW	VAR			
95/99	.0	.0	.0	.0	.0	.0	.4	.1	.0	.0	.0	.2
90/94	.0	1.3	2.1	1.2	1.3	2.1	4.3	1.2	.0	.0	.0	2.9
85/89	.0	4.3	5.3	2.0	2.7	9.3	1.2	6.2	.0	.0	.0	9.0
80/84	.7	2.2	2.4	.9	1.3	2.0	4.1	3.2	.0	.0	.0	3.9
75/79	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
TOTAL	.8	3.3	4.1	1.6	2.5	5.3	11.1	5.1	.0	.0	.0	6.6
PCT	2.1	8.1	10.0	4.1	6.3	13.5	27.2	12.6	.0	.0	.0	16.1

TABLE 15

HOUR (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL OBS
	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL		
0003	92	89	88	85	81	80	79	84.9	162	162	
0609	95	94	93	88	83	80	80	81.6	178	178	
1215	96	95	93	88	84	81	79	88.3	161	161	
1821	92	91	89	86	81	79	79	85.5	130	130	
TOT	96	94	92	84	82	80	79	86.7	631	631	

TABLE 16

HOUR (GMT)	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL OBS
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL	
0003	.0	7.6	18.6	38.1	28.6	5.3	.0	.0	75	114	
0609	.0	19.8	27.0	32.3	16.7	3.2	.0	.0	69	126	
1215	.0	34.5	27.3	28.2	7.3	2.7	.0	.0	65	110	
1821	.0	10.6	27.7	37.0	13.1	6.7	.0	.0	72	194	
TOT	0	8.2	11.2	15.3	8.0	2.1	.0	.0	71	448	



OCTOBER

PERIOD: (PRIMARY) 1949-1970  
(OVER-ALL) 1906-1970

AREA 0022 S. E. PERSIAN GULF  
26.2N 54.8E

TABLE 17

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

AIR-SEA TMP DIF	77	81	85	89	93	TOT	M	W	MO
	80	84	88	92	96		FOG		FOG
7/8	.0	.0	.4	.4	.6	7	.0	.0	1.4
6	.0	.0	.6	.2	1.0	9	.0	.0	1.8
5	.0	.0	.6	1.4	.6	13	.0	.0	2.7
4	.0	.0	.8	1.4	.6	14	.0	.0	2.9
3	.0	.0	1.6	1.0	.4	15	.0	.0	3.1
2	.0	.8	3.5	3.9	.2	41	.0	.0	8.4
1	.0	.6	4.5	3.5	.0	42	.0	.0	8.6
0	.0	2.5	6.0	4.1	.0	71	.0	.0	14.5
-1	.2	1.6	9.2	1.8	.0	63	.0	.0	12.9
-2	.2	2.7	9.8	.6	.0	63	.0	.0	13.3
-3	.2	3.1	7.0	.4	.0	52	.0	.0	10.7
-4	.4	3.3	3.3	.2	.0	35	.0	.0	7.2
-5	.0	3.5	3.1	.0	.0	32	.0	.0	6.6
-6	.2	1.6	1.2	.0	.0	15	.0	.0	3.1
-7/-8	.0	1.2	1.0	.0	.0	11	.0	.0	2.3
-9/-10	.4	.2	.0	.0	.0	3	.0	.0	.6
TOTAL	8	103	267	93	17	488	.0	.0	488
PCT	1.6	21.1	54.7	19.1	3.5	100.0			100.0

OCTOBER  
 TABLE 18  
 AREA 0022 S. E. PERSIAN GULF  
 26.12N 54.8E

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

PCT FREQ D: WIND SPEED (KTS) AND DIRECTION VCRSUS SEE HEIGHTS (FT)

HGT	N										PCT				
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33		34-47	48+	PCT	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	
1-2	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	
3-4	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	.9	.0	.0	.0	.0	.0	.0	1.6	.9	5.9	1.1	.0	.0	7.9

HGT	E										PCT				
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33		34-47	48+	PCT	
<1	.0	4.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7
1-2	.9	2.7	.7	.0	.0	.0	.0	.0	4.3	.0	.0	.0	.0	.0	1.8
3-4	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	8.3	.7	.0	.0	.0	.0	.0	9.9	1.8	9.8	.9	.0	.0	6.5

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

OCTOBER  
TABLE 18

AREA 0022 S. E. PERSIAN GULF  
26.2N 54.8E

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

HGT	S					SW					48+	PCT	
	1-3	4-10	11-21	22-33	34-47	1-3	4-10	11-21	22-33	34-47			
<1	.9	.7	.0	.0	.0	.9	2.9	.0	.0	.0	.0	.0	3.3
1-2	.0	.7	.7	.0	.0	.2	7.4	.7	.0	.0	.0	.0	8.3
3-4	.0	.7	.0	.0	.0	.0	1.4	1.8	.0	.0	.0	.0	3.2
5-6	.0	.0	.9	.0	.0	.0	.0	.9	.0	.0	.0	.0	.9
7	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	2.0	2.5	.0	.0	1.1	11.7	3.4	.0	.0	.0	.0	16.2

HGT	W					NW					48+	PCT	
	1-3	4-10	11-21	22-33	34-47	1-3	4-10	11-21	22-33	34-47			
<1	.9	5.4	.0	.0	.0	.9	4.5	.0	.0	.0	.0	.0	5.4
1-2	2.5	15.2	5.0	.0	.0	.2	2.3	.9	.0	.0	.0	.0	3.1
3-4	.0	3.4	7.0	.0	.0	.0	.9	2.9	.0	.0	.0	.0	3.8
5-6	.0	.0	2.5	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.9
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.4	20.9	14.4	.0	.0	1.1	7.7	5.0	.0	.0	.0	.0	13.7

AREA 0022 S. E. PERSIAN GULF  
25.2N 54.0E

OCTOBER

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

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT				
<1	23.7	18.7	.7	.0	.0	.0	.0	43.2			
1-2	5.0	22.3	6.5	.0	.0	.0	.0	32.8			
3-4	.0	7.2	10.1	.0	.0	.0	.0	17.3			
5-6	.0	.7	3.6	.0	.0	.0	.0	4.3			
7	.0	.0	.7	.0	.0	.0	.0	.7			
8-9	.0	.0	.7	.0	.0	.0	.0	.7			
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	28.8	48.9	22.3	.0	.0	.0	.0	100.0			139

TABLE 19

PERIOD (SEC)	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)													MEAN HGT								
	<1	1-2	3-4	5-6	7	11-9	10-11	12	13-16	17-19	20-22	23-25	26-32		33-40	41-48	49-60	61-70	71-86	87+	TOTAL	
<6	11.7	26.3	11.5	1.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	198	2
6-7	.0	1.0	2.6	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	2
8-9	.0	.3	.5	.8	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	4
10-11	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
15-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
INDET	34.1	6.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	157	0
TOTAL	176	129	59	17	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	384	1
PCT	43.8	33.6	15.4	4.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	0

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1865-1970

NOVEMBER

AREA 0022 S. S. PERSIAN GULF  
20.1N 54.7E

TABLE 1  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN		DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS		
	SHR	SHR		PCPN	FRZN	SNOW					SDM	FG	SMOKE	HAZE	BLWG		BLWG	SNOW
N	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	7.3	34
NE	.5	.1	.0	.0	.0	.0	.0	.0	2	.5	.0	.0	.0	.0	.0	.0	14.1	69
E	.1	.2	.0	.0	.0	.0	.0	.0	1	.3	.0	.0	.0	.0	.0	.0	14.1	71
SE	.0	.0	.0	.0	.0	.0	.0	.0	0	.2	.0	.0	.0	.0	.0	.0	3.0	16
S	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	3.4	17
SW	.0	.0	.0	.0	.0	.0	.0	.0	0	.2	.0	.0	.0	.0	.0	.0	5.0	24
W	.0	.0	.0	.0	.0	.0	.0	.0	0	.2	.0	.0	.0	.0	.0	.0	21.0	100
NW	.0	.0	.0	.0	.0	.0	.0	.0	0	.2	.0	.0	.0	.0	.0	.0	12.1	53
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	17.1	81
TOT OBS	3	1	0	0	0	0	0	0	4	8	0	0	0	0	0	1	480	473
TOT PCT	.6	.2	.0	.0	.0	.0	.0	.0	.8	1.7	.0	.0	.0	.0	.0	.2	97.3	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN		DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS		
	SHR	SHR		PCPN	FRZN	SNOW					SDM	FG	SMOKE	HAZE	BLWG		BLWG	SNOW
0000	.0	.0	.0	.0	.0	.0	.0	.0	0	1.8	.0	.0	.0	.0	.0	.0	97.3	113
0600	1.4	.0	.0	.0	.0	.0	.0	1.4	2	2.1	.0	.0	.0	.0	.0	.0	97.2	145
1200	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.0	.0	.0	.0	.0	.0	98.5	136
1800	.9	.9	.0	.0	.0	.0	.0	1.7	2	2.6	.0	.0	.0	.0	.0	.0	96.6	116
TOT	3	1	0	0	0	0	0	4	4	8	0	0	0	0	0	1	497	510
PCT	.6	.2	.0	.0	.0	.0	.0	.8	.8	1.6	.0	.0	.0	.0	.0	.2	97.5	100.0

NOVEMBER

PERIODS (PRIMARY) 1947-1970  
(COVER-ALL) 1965-1970

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 3  
PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										MEAN SPD	PCT FREQ	TOTAL OBS	48+	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)											
	0-3	4-10	11-21	22-33	34-47	48+	48+	34-47	48+	48+										00	03	06	09	12	15	18	21				
N	2.7	4.6	.8	.0	.0	.0	.0	.0	.0	.0	.0	8.1	40	.0	.0	.0	.0	.0	5.6	8.6	13.3	9.9	3.3	5.8	6.3	6.1	22.5				
NE	2.4	8.9	3.5	.3	.0	.0	.0	.0	.0	.0	.0	14.7	84	.0	.0	.0	.0	.0	8.0	13.1	20.0	20.1	25.8	11.0	24.0	9.2	19.0				
E	2.4	6.6	5.5	.3	.0	.0	.0	.0	.0	.0	.0	14.9	85	.0	.0	.0	.0	.0	9.4	6.7	26.7	21.6	29.2	14.4	9.4	8.2	15.0				
SE	.7	2.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	3.1	18	.0	.0	.0	.0	.0	6.1	4.2	3.3	2.6	1.7	4.0	2.1	2.8	.0				
S	1.1	1.5	.8	.0	.0	.0	.0	.0	.0	.0	.0	3.4	19	.0	.0	.0	.0	.0	6.6	2.2	.0	3.5	1.7	6.9	.0	2.6	.0				
SW	1.1	3.3	1.4	.0	.0	.0	.0	.0	.0	.0	.0	5.8	33	.0	.0	.0	.0	.0	7.1	3.5	3.3	2.8	2.5	11.2	12.5	4.2	10.0				
W	3.0	13.2	7.7	.0	.0	.0	.0	.0	.0	.0	.0	20.9	120	.0	.0	.0	.0	.0	8.8	23.9	16.7	14.9	9.2	20.8	27.1	28.3	20.0				
NW	2.1	5.8	4.0	.3	.0	.0	.0	.0	.0	.0	.0	12.2	70	.0	.0	.0	.0	.0	8.0	18.8	3.3	7.3	6.7	6.7	12.5	19.4	20.0				
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CALM	16.8	264	119	4	0	0	0	0	0	0	0	16.8	96	.0	.0	.0	.0	.0	.0	15.9	13.3	17.2	20.0	19.2	4.2	19.7	5.0				
TOT OBS	186	46.1	20.6	.7	.0	.0	.0	.0	.0	.0	.0	100.0	573	.0	.0	.0	.0	.0	6.6	113	113	134	30	130	24	107	20				
TOT PCT	32.5	46.1	20.6	.7	.0	.0	.0	.0	.0	.0	.0	100.0	100.0	.0	.0	.0	.0	.0	6.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0			

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)												TOTAL OBS	PCT FREQ	MEAN SPD	PCT FREQ	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)											
	0-6	7-16	17-27	28-40	41+	41+	28-40	17-27	7-16	0-6	00	03								06	09	12	15	18	21						
N	5.8	2.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	8.1	46	.0	.0	.0	.0	.0	5.6	9.2	8.7	6.7	6.2	6.7	6.7	6.1	22.5				
NE	6.7	7.4	.7	.0	.0	.0	.0	.0	.0	.0	.0	14.7	84	.0	.0	.0	.0	.0	8.0	13.9	21.2	21.2	25.8	11.0	24.0	9.2	19.0				
E	5.4	8.3	1.2	.0	.0	.0	.0	.0	.0	.0	.0	14.9	85	.0	.0	.0	.0	.0	9.4	11.7	23.0	23.0	29.2	14.4	9.4	8.2	15.0				
SE	2.3	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	3.1	18	.0	.0	.0	.0	.0	6.1	4.1	2.4	2.4	1.7	4.0	2.1	2.8	.0				
S	2.3	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	3.4	19	.0	.0	.0	.0	.0	6.6	2.0	3.2	3.2	1.7	6.9	.0	2.6	.0				
SW	3.4	2.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	5.8	33	.0	.0	.0	.0	.0	7.1	3.5	2.7	2.7	2.5	11.4	12.5	4.2	10.0				
W	10.5	8.9	1.7	.0	.0	.0	.0	.0	.0	.0	.0	20.9	120	.0	.0	.0	.0	.0	8.8	23.0	13.9	13.9	9.2	20.8	27.1	28.3	20.0				
NW	5.8	5.2	1.0	.2	.0	.0	.0	.0	.0	.0	.0	12.2	70	.0	.0	.0	.0	.0	8.0	17.0	17.2	17.2	6.7	6.7	12.5	19.4	20.0				
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CALM	16.8	264	119	4	0	0	0	0	0	0	0	16.8	96	.0	.0	.0	.0	.0	.0	15.6	17.7	17.7	20.0	19.2	4.2	19.7	5.0				
TOT OBS	338	360	28	1	0	0	0	0	0	0	0	16.8	573	.0	.0	.0	.0	.0	6.6	128	164	164	154	127	127	107	20				
TOT PCT	59.0	36.0	4.9	.2	.0	.0	.0	.0	.0	.0	.0	100.0	100.0	.0	.0	.0	.0	.0	6.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0			

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

PERIOD (PRIMARY) (OVER-ALL) 1947-1970 1865-1970	HOUR	WIND SPEED (KNOTS)										TOTAL OBS
		CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ		
	0000	15.6	14.8	49.2	20.3	.0	.0	.0	6.3	100.0	128	
	0600	17.7	15.2	43.1	21.3	.6	.0	.0	6.3	100.0	164	
	1200	16.0	21.4	42.2	18.8	.6	.0	.0	6.0	100.0	154	
	1800	16.5	10.2	48.8	22.3	1.6	.0	.0	7.2	100.0	127	
	TOT	56	90	264	119	4	0	0	6.6	100.0	573	
	PCT	16.8	15.7	46.1	20.8	.7	.0	.0				

TABLE 5  
 PCT FREQ OF TOTAL CLOUD AMOUNT (HEIGHTS)  
 BY WIND DIRECTION

WIND DIR	PCT FREQ OF TOTAL CLOUD AMOUNT (HEIGHTS)								TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBSCO	8 & OBSCO	9-11	12-14	15-17		
N	6.5	.9	.6	.0	.0	.0	.0	.0	35	1.2
NE	11.1	1.5	.7	.7	.0	.0	.0	.0	60	1.3
E	2.1	1.8	2.2	.5	.0	.0	.0	.0	58	1.9
SE	2.3	.5	.4	.0	.0	.0	.0	.0	13	1.5
S	3.2	.2	.5	.0	.0	.0	.0	.0	17	1.6
SW	3.8	.6	.6	.0	.0	.0	.0	.0	21	1.5
W	19.2	1.6	1.0	.4	.0	.0	.0	.0	96	1.1
NW	11.3	1.2	.5	.1	.0	.0	.0	.0	56	.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
CALM	14.4	1.6	.7	.2	.0	.0	.0	.0	73	.9
TOT OBS	349	43	31	9	432					
TOT PCT	80.8	10.0	7.2	2.1	100.0					

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

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, MH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION										TOTAL OBS	
	000	150	300	600	1000	2000	3500	5000	6500	8000+		NH <5/8
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	60
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	58
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	96
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	56
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	73
TOT OBS	0	0	0	0	0	0	0	0	0	0	0	432
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1967-1970  
(OVER-ALL) 1865-1970

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AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 7  
CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	OR		OR		OR		OR		OR		CR
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0			
OR >5000	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
OR >5000	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6
OR >5000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
OR >2000	1.9	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
OR >1000	3.0	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
OR >600	3.2	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
OR >300	3.2	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
OR >150	3.2	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
OR >0	3.2	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
TOTAL	15	17	17	17	17	17	17	17	17	17	17

TOTAL NUMBER OF OBS: 464 PCT FREQ NH <5/8: 96.3

TABLE 7A  
PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL
	67.1	16.9	7.0	2.3	1.9	2.3	.8	.2	1.0	.0	486



PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1865-1970

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26.1N 54.7E

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

VSRY (NH)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.4	.4
TOT %	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.4	.4
1/2<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	.0	.5	.1	.0	.0	.0	.0	.0	.0	.0	.6	.6
NO PCP	.0	1.0	2.3	.1	.3	.4	.7	1.2	.0	1.1	7.6	7.6
TOT %	.0	1.5	2.4	.1	.3	.4	.7	1.2	.0	1.1	8.2	8.2
10+	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.2	.2
NO PCP	6.7	12.7	11.6	3.4	3.3	4.8	20.5	11.2	.0	16.1	90.5	90.5
TOT %	6.7	12.8	11.8	3.4	3.3	4.8	20.5	11.2	.0	16.1	90.5	90.5
TOT OBS	7.3	14.7	15.0	3.4	3.6	5.2	21.2	12.3	.0	17.1	100.0	100.0
TOT PCT												473

PERIOD: (PRIMARY) 1947-1970  
(COVER-ALL) 1865-1970

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AREA 0022 S. E. PERSIAN GULF  
26. IN 94.7E

TABLE 9

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

VS#Y (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	.2
	11-21	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	.2
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2
	4-10	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4
	11-21	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.2	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4
5<10	0-3	.3	.1	.4	.1	.1	.3	.3	.1	.0	.9	.2	2.5
	4-10	.3	.8	.9	.1	.0	.0	.0	.3	.0	.0	.7	2.7
	11-21	.0	.6	1.1	.4	.2	.1	.3	.4	.0	.0	.7	2.7
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.3	1.5	2.5	.2	.3	.4	.6	1.0	.4	.9	.9	7.9	7.9
10+	0-3	2.4	2.4	1.9	.7	1.0	.9	2.6	2.1	.0	16.0	30.0	30.0
	4-10	3.9	7.8	5.7	2.1	1.5	3.0	13.1	5.0	.0	.0	42.0	42.0
	11-21	.8	2.8	4.2	.3	.7	1.1	4.6	3.7	.0	.0	18.1	18.1
	22+	.0	.0	.3	.0	.0	.0	.0	.4	.0	.0	.7	.7
TOT %	7.1	13.0	12.1	3.0	3.2	4.9	20.3	11.2	.0	16.0	90.8	90.8	
TOT OBS	7.8	14.9	15.3	3.2	3.5	5.3	20.9	12.2	.0	16.9	100.0	100.0	

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AREA 0022 S. E. PERSIAN GULF  
25.1N 54.7E

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1865-1970

TABLE 10  
PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000		150		300		600		1000		2000		3500		5000		8000+		TOTAL NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	149	299	599	149	299	599	149	299	599	149	299	599	149	299	599		
00003	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	98.1	104
06009	.0	.0	.0	.0	.0	.0	.7	2.2	.7	.7	.7	.0	.0	.0	.0	.0	.0	.0	94.9	137
12015	.0	.0	.0	.0	.0	.0	.0	.0	.8	1.6	.0	.0	.0	.0	.0	.0	.0	.0	96.9	129
18021	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	96.4	110
TOT PCT	.0	.0	.0	.0	.0	.0	.2	1.0	1.0	1.0	1.0	1.0	1.0	.4	.2	.0	.1	.17	463	482
							.4	1.0	1.0	1.0	1.0	1.0	1.0	.4	.2	.0	.2	3.5	96.5	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
	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2		
00003	.0	.0	.0	.0	.0	.0	.0	.0	5.8	94.2	104	104	
06009	.7	.0	.0	.0	.0	.0	.0	.0	5.2	94.0	134	134	
12015	.0	.0	.0	.0	.0	.0	.0	.0	2.5	96.7	120	120	
18021	.0	.0	.0	.0	.0	.0	.0	.0	4.7	93.4	106	106	
TOT PCT	.2	.0	.0	.0	.0	.0	.0	.0	2.1	439	464	464	
	.4	.0	.0	.0	.0	.0	.0	.0	4.5	94.6	100.0	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		<600		<1000		1000+		NH <5/8 AND 5+	TOTAL OBS
	<50YD	<1	<1	<1	<1	<1	<1			
00003	.0	.0	.0	.0	.0	.0	.0	.0	1.9	98.1
06009	.0	.0	.0	.0	.0	.0	.0	.0	1.5	94.0
12015	.0	.0	.0	.0	.0	.0	.0	.0	1.7	95.8
18021	.0	.0	.0	.0	.0	.0	.0	.0	1.9	94.3
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	1.5	463
	.0	.0	.0	.0	.0	.0	.0	.0	1.3	93.5
									3.2	100.0

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PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1865-1970

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TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	00-100			
95/99	.0	.0	.3	1.3	.0	.0	.0	.0	.0	.0	2	.5
90/94	.0	.0	.5	1.1	.0	.0	.0	.0	.0	.0	6	1.6
85/89	.0	.0	1.1	4.0	5.0	4.5	.9	.0	.0	.0	36	14.9
80/84	.0	.0	1.9	8.0	14.6	10.3	4.2	.8	.0	.0	150	39.8
75/79	.0	.0	2.4	8.0	10.1	10.9	4.5	1.3	.0	.0	140	37.1
70/74	.0	.0	.0	1.1	1.6	1.1	.8	.8	.0	.0	23	6.1
TOTAL	0	0	26	84	118	101	37	11			377	100.0
PCT	.0	.0	6.9	22.3	31.3	26.8	9.6	2.9				

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP												
N	NE	E	SE	S	SW	W	NW	VAR	CALM			
.0	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.6	.2	.0	.1	.5	.2	.0	.0	.0	.0	.0	.0
1.0	.9	1.1	.5	.8	1.1	4.7	2.2	.0	.0	.0	.0	.0
3.8	4.5	5.4	1.3	2.4	2.7	10.3	3.6	.0	.0	.0	.0	.0
3.5	4.6	5.2	1.2	.7	1.1	6.4	5.9	.0	.0	.0	.0	.0
.7	1.7	1.8	.0	.0	.0	.6	1.1	.0	.0	.0	.0	.0
.3	1.7	.5	.1	.1	.5	.8	.4	.0	.0	.0	.0	.0
9.0	12.5	13.9	3.1	4.0	5.2	22.2	12.8	.0	.0	.0	.0	.0

TABLE 15

HOUR (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL OBS
	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS		
0000Z	85	84	84	79	73	70	70	79.0	137	137	
0600Z	97	93	88	81	73	71	71	81.0	169	169	
1201Z	95	94	89	82	75	72	72	82.5	168	168	
1802Z	85	84	84	79	73	70	70	79.1	135	135	
TOT	97	93	87	80	74	71	70	80.5	609	609	

TABLE 16

HOUR (GMT)	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL OBS
	0-25	30-39	60-69	70-79	80-89	90-100	MEAN				
0000Z	.0	22.1	37.9	29.5	10.5	.0	67	.75			
0600Z	.0	27.6	29.3	25.9	12.1	5.2	68	116			
1201Z	.0	38.9	32.7	18.5	6.5	3.7	64	108			
1802Z	.0	24.7	34.4	29.0	7.5	4.3	67	193			
TOT	0	11.8	33.7	105	38	14	66	412			

PERIOD: (PRIMARY) 1967-1970  
(OVER-ALL) 1965-1970

NOVEMBER

AREA: CO22 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 17  
PCT FREQ OF AIR TEMPERATURE (OEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (OEG F)

AIR-SEA TEMP DIF	69	73	77	81	85	89	93	70T	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.0	.2	1	.0	.2
9/10	.0	.0	.0	.0	.2	.0	.2	2	.0	.5
7/8	.0	.0	.0	.0	.5	.2	.5	5	.0	1.2
6	.0	.0	.0	.2	.0	.7	.2	4	.0	.7
5	.0	.0	.0	.5	.5	.0	.2	9	.0	2.1
4	.0	.0	.7	2.1	1.9	.2	.0	21	.0	4.9
3	.0	.0	.7	2.8	2.6	.0	.0	27	.0	6.3
2	.0	.2	.7	1.9	3.0	.2	.0	26	.0	6.1
1	.0	.3	1.4	5.6	2.6	.0	.0	41	.0	9.6
-1	.0	.3	5.9	4.7	1.2	.0	.0	52	.0	12.2
-2	.0	1.4	6.3	4.7	1.4	.0	.0	59	.0	13.8
-3	.0	1.4	5.2	3.3	.2	.0	.0	43	.0	10.1
-4	.2	3.0	6.3	1.9	.2	.0	.0	50	.0	11.7
-5	.2	2.6	4.7	1.4	.3	.0	.0	40	.0	9.4
-6	.9	2.1	1.2	.0	.0	.0	.0	18	.0	4.2
-7/-8	.7	2.1	.7	.3	.0	.0	.0	17	.0	4.0
-9/-10	.2	1.2	.2	.0	.0	.0	.0	7	.0	1.6
TOTAL	10	62	146	127	69	7	6	427	0	427
PCT	2.3	14.5	34.2	29.7	16.2	1.6	1.6	100.0	0	100.0

PERIOD: (PRIMARY) NOVEMBER AREA 0022 S. E. PERSIAN GULF  
 (COVER-ALL) 1963-1970 TABLE 18 26.1N 54.7E

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

HGT	N					NE					PCT			
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21		22-33	34-47	48+
<1	1.0	1.0	.0	.0	.0	.0	2.0	3.3	3.0	.0	.0	.0	.0	6.3
1-2	.0	4.0	.0	.0	.0	.0	4.0	.0	4.5	1.3	.0	.0	.0	5.8
3-4	.0	.0	.0	.0	.0	.0	.0	.0	3.0	4.3	.0	.0	.0	7.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	5.1	.0	.0	.0	.0	6.1	3.3	10.6	5.6	.0	.0	.0	19.4

HGT	E					SE					PCT			
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21		22-33	34-47	48+
<1	2.8	1.0	.0	.0	.0	.0	2.8	.0	.3	.0	.0	.0	.0	.3
1-2	.8	2.5	2.8	.0	.0	.0	6.1	.3	1.3	.0	.0	.0	.0	1.5
3-4	1.0	2.0	5.8	.0	.0	.0	8.8	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	3.0	.0	.0	.0	3.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.5	5.6	11.6	.0	.0	.0	21.7	.3	1.5	.0	.0	.0	.0	1.8

NOVEMBER  
TABLE 18

PERIODS (PRIMARY)  
(OVER-ALL) 1963-1970

AREA 0022 S. E. PERSIAN GULF  
26.1N 34.7E

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

HGT	S					SM					PCT			
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21		22-33	34-47	48+
<1	.0	1.8	.0	.0	.0	.0	1.8	.3	.0	.0	.0	.0	.0	1.3
1-2	.0	1.8	.0	.0	.0	.0	1.8	1.8	.0	.0	.0	.0	.0	2.0
3-4	.0	.0	1.8	.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0	2.5
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.5	1.8	.0	.0	.0	5.3	1.0	3.0	1.8	.0	.0	.0	5.8

HGT	M					NW					PCT			
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21		22-33	34-47	48+
<1	3.0	4.5	1.0	.0	.0	.0	8.6	2.0	.3	1.0	.0	.0	.0	3.3
1-2	1.0	9.1	2.5	.0	.0	.0	12.6	1.0	4.3	1.3	.0	.0	.0	5.6
3-4	.0	3.0	2.3	.0	.0	.0	5.3	.0	1.0	1.5	.0	.0	.0	2.7
5-6	.0	1.0	1.0	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.0	17.7	6.8	.0	.0	.0	28.5	3.0	5.6	2.8	.0	.0	.0	11.4

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

NOVEMBER

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOT DBS
	0-3	4-10	11-21	22-23	34-47	48+	PCT				
<1	28.7	10.7	1.6	.0	.0	.0	41.0				122
1-2	2.5	23.8	5.7	.0	.0	.0	32.0				
3-4	.0	8.2	13.9	.0	.0	.0	23.0				
5-6	.0	.8	3.3	.0	.0	.0	4.1				
7	.0	.0	.0	.0	.0	.0	.0				
8-9	.0	.0	.0	.0	.0	.0	.0				
10-11	.0	.0	.0	.0	.0	.0	.0				
12	.0	.0	.0	.0	.0	.0	.0				
13-16	.0	.0	.0	.0	.0	.0	.0				
17-19	.0	.0	.0	.0	.0	.0	.0				
20-22	.0	.0	.0	.0	.0	.0	.0				
23-25	.0	.0	.0	.0	.0	.0	.0				
26-32	.0	.0	.0	.0	.0	.0	.0				
33-40	.0	.0	.0	.0	.0	.0	.0				
41-48	.0	.0	.0	.0	.0	.0	.0				
49-60	.0	.0	.0	.0	.0	.0	.0				
61-70	.0	.0	.0	.0	.0	.0	.0				
71-86	.0	.0	.0	.0	.0	.0	.0				
87+	.0	.0	.0	.0	.0	.0	.0				
TOT PCT	32.0	43.4	24.6	.0	.0	.0	100.0				

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 19

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

PERIOD (SEC)	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)										MEAN HGT										
	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19		20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL
<6	10.9	25.6	12.5	3.5	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	166
6-7	.0	.6	2.9	2.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19
8-9	.0	.3	.6	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7
10-11	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
IMOET	27.6	8.0	1.6	.3	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	119
TOTAL	120	108	55	22	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	312
PCT	38.5	34.6	17.6	7.1	1.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0



DECEMBER

AREA 0022 S. E. PERSIAN GULF  
26.0N 54.7E

PERIODS (PRIMARY) 1948-1970  
(OVER-ALL) 1885-1970

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN		ORZL		PRECIPITATION TYPE			HAIL		PCT FREQ		TOTAL		OTHER WEATHER PHENOMENA						TOTAL OBS					
	SHWR	SHR	SHWR	SHR	FRZG	SNOW	OTHER	FRZN	PCPN	PCPN AT	OB TIME	PCPN	OBS	THOR	LTNG	PCPN	FOG	SMOKE	HAZE		BLWG	DUST	SIG	NO	
N	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.4	.2	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	61
NE	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	76
E	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.3	.1	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	57
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20
W	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.4	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	124
NW	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	98
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	87
TOT OBS	3	3	2	2	2	2	2	2	2	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4	565
TOT PCT	.5	.5	.4	.4	.4	.4	.4	.4	.4	.4	1.4	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GHT)	RAIN		ORZL		PRECIPITATION TYPE			HAIL		PCT FREQ		TOTAL		THOR		PCPN		OTHER WEATHER PHENOMENA						TOTAL OBS	
	SHWR	SHR	SHWR	SHR	FRZG	SNOW	OTHER	FRZN	PCPN	PCPN AT	OB TIME	PCPN	OBS	THOR	LTNG	PCPN	FOG	SMOKE	HAZE	BLWG	DUST	SIG	NO		
0003	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	1	1	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42
0609	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	1.2	2	2	1.2	1.2	2.5	.0	.0	.0	.0	.0	.0	.0	.0	161
1215	.0	1.8	.6	.0	.0	.0	.0	.0	.0	.0	2.4	4	4	.0	.0	.0	.0	.0	.0	.0	1.2	95.9	1.2	.0	170
1821	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	1	1	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	119
TOT	3	3	2	2	2	2	2	2	2	2	3	8	8	4	4	5	4	4	5	4	4	4	4	4	592
PCT	.5	.5	.3	.3	.3	.3	.3	.3	.3	.3	1.4	.7	.7	.7	.7	.8	.7	.7	.8	.7	.7	.7	.7	.7	100.0

DECEMBER

PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1888-1970

AREA 0022 S. E. PERSIAN GULF  
26.0N 56.7E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)							
	0-3	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	7.6	1.9	.1	.0	.0	71	10.8	7.5	12.9	6.8	12.6	6.0	8.2	5.3	11.8	12.5	
NE	1.9	7.4	4.3	.5	.0	.0	92	14.1	9.1	11.1	25.0	17.2	20.0	15.0	5.3	9.9	20.0	
E	1.2	4.9	2.8	.3	.0	.0	60	9.2	9.0	9.2	9.1	9.9	4.0	13.3	.0	7.0	7.5	
SE	.6	2.1	.4	.0	.0	.0	20	3.2	6.3	4.5	2.3	5.4	.0	2.8	.0	.9	.0	
S	.7	2.0	.1	.2	.0	.0	19	3.0	6.2	2.9	15.9	2.6	10.0	1.7	10.5	.7	.0	
SW	1.6	2.3	1.1	.2	.0	.0	34	5.2	7.5	2.7	.0	5.1	24.0	6.2	.0	5.3	.0	
W	2.2	12.2	6.0	1.5	.0	.0	143	21.8	9.8	22.0	20.5	15.5	24.0	25.3	26.3	23.2	25.0	
NW	1.3	10.2	4.9	.6	.0	.0	112	17.1	9.5	20.3	11.4	16.8	8.0	11.9	36.8	21.9	10.0	
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	15.7	32.0	14.0	2.2	0	0	103	15.7	7.4	15.4	0.1	15.0	4.0	15.4	15.8	15.3	25.0	
TOT OBS	174	483.6	213.3	3.3	.0	.0	658	100.0		149	22	147	23	162	19	114	20	
TOT PCT	26.7	48.6	21.3	3.3	.0	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)						
	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	4.6	.6	.0	.0	71	10.8	7.9		12.1	11.6	11.6	7.9	11.9			
NE	5.6	7.4	1.1	.0	.0	92	14.1	9.1		12.9	17.6	14.0	11.4	11.4			
E	4.3	3.9	.8	.2	.0	60	9.2	9.0		6.3	9.0	11.9	7.1	7.1			
SE	2.0	1.1	.8	.0	.0	20	3.2	6.3		4.2	4.7	2.5	.7	.7			
S	2.4	2.3	.8	.0	.0	19	3.0	6.2		4.5	3.6	2.6	.6	.6			
SW	3.8	2.0	.4	.0	.0	34	5.2	7.5		2.3	7.8	5.8	4.5	4.5			
W	6.4	10.3	3.0	.2	.0	143	21.8	9.8		21.8	16.7	25.4	23.5	23.5			
NW	6.7	7.6	2.8	.0	.0	112	17.1	9.5		19.2	15.6	14.5	20.1	20.1			
VAR	.0	.0	.0	.0	.0	0	.0	.0		.0	.0	.0	.0	.0			
CALM	15.7	24.5	6.0	2	0	103	15.7	7.4		14.6	13.4	15.5	20.1	20.1			
TOT OBS	351	37.2	9.1	.5	.0	658	100.0			171	172	181	134	134			
TOT PCT	52.3	37.2	9.1	.5	.0	100.0				100.0	100.0	100.0	100.0	100.0			

AREA 0022 S. E. PERSIAN GULF  
26.0N 54.7E

DECEMBER

PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1885-1970

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)					TOTAL OBS
	0-10	11-21	22-32	34-47	48+	
0603	14.6	11.1	46.8	25.1	2.3	171
0609	13.4	10.5	52.9	19.8	3.5	172
1203	13.3	11.0	47.5	21.0	2.0	181
1803	20.1	11.7	47.0	18.7	2.2	134
TOT	103	73	320	140	22	658
PCT	15.7	11.1	48.6	21.2	3.3	100.0

TABLE 5

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

WIND DIR	PCT FREQ							TOTAL OBS	MEAN CLOUD COVER
	0-2	2-4	4-7	7-8	8-10	10-15	15-100		
N	7.4	1.0	1.5	1.7	55	2.0	55	2.0	
NE	6.6	1.9	2.2	1.0	68	2.3	68	2.3	
E	6.6	1.2	2.2	1.4	21	2.3	21	2.3	
SE	2.6	1.3	1.6	1.0	17	1.7	17	1.7	
S	1.8	1.6	1.0	1.2	7	2.4	7	2.4	
SW	4.3	1.1	1.1	1.0	22	1.8	22	1.8	
W	15.0	2.7	2.3	1.6	102	1.6	102	1.6	
NW	13.2	2.3	1.4	1.6	86	1.6	86	1.6	
VAR	1.0	1.0	1.0	1.0	0	1.1	0	1.1	
CALM	13.1	2.0	1.4	1.2	83	1.7	83	1.7	
TOT OBS	236	89	158	15	495	1.7	495	1.7	
TOT PCT	71.9	12.7	11.7	3.6	100.0				

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) (NH > 478)  
AND OCCURRENCE OF NH < 578 BY WIND DIRECTION

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) (NH > 478)										TOTAL OBS	
	000	130	150	300	500	600	1000	2000	3500	5000		8000+
N	14	299	130	300	599	999	1999	3499	4999	6499	7999	10.0
NE	14	299	130	300	599	999	1999	3499	4999	6499	7999	10.0
E	14	299	130	300	599	999	1999	3499	4999	6499	7999	10.0
SE	14	299	130	300	599	999	1999	3499	4999	6499	7999	10.0
S	14	299	130	300	599	999	1999	3499	4999	6499	7999	10.0
SW	14	299	130	300	599	999	1999	3499	4999	6499	7999	10.0
W	14	299	130	300	599	999	1999	3499	4999	6499	7999	10.0
NW	14	299	130	300	599	999	1999	3499	4999	6499	7999	10.0
VAR	14	299	130	300	599	999	1999	3499	4999	6499	7999	10.0
CALM	14	299	130	300	599	999	1999	3499	4999	6499	7999	10.0
TOT OBS	14	299	130	300	599	999	1999	3499	4999	6499	7999	100.0
TOT PCT	14	299	130	300	599	999	1999	3499	4999	6499	7999	100.0

PERIOD: (PRIMARY) 1948-1970  
 (OVER-ALL) 1895-1970

DECEMBER

AREA 0022 S. E. PERSIAN GULF  
 26.0N 54.7E

TABLE 7

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

CEILING (FEET)	OR >10	OR >5	OR >2	OR >1	GP >1/2	OR >1/4	OR >50YD	CR >0
OR >6500	.2	.2	.2	.2	.2	.2	.2	.2
OR >5000	.6	.6	.8	.8	.8	.8	.8	.8
OR >3500	.8	1.0	1.2	1.2	1.2	1.2	1.2	1.2
OR >2000	3.3	3.7	3.9	3.9	3.9	3.9	3.9	3.9
OR >1000	4.7	5.1	5.5	5.5	5.5	5.5	5.5	5.5
OR >800	5.1	5.7	6.1	6.1	6.1	6.1	6.1	6.1
OR >600	5.1	6.3	6.7	6.7	6.7	6.7	6.7	6.7
OR >300	5.5	6.8	6.8	6.8	6.8	6.8	6.8	6.8
OR >150	5.7	6.5	6.8	6.8	6.8	6.8	6.8	6.8
OR >0	5.7	6.5	6.8	6.8	6.8	6.8	6.8	6.8
TOTAL	29	33	35	35	35	35	35	35

TOTAL NUMBER OF OES: 511 PCT FREQ NH <5/8: 93.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OR SCS	TOTAL
53.9	19.3	9.8	6.4	3.1	1.3	3.3	1.3	1.6	.0	5.4

MEXICO (PRIMARY: 1948-1970  
(OVER-ALL: 1945-1970

DECEMBER

AREA 0022 S. E. PERSIAN GULF  
26.0N 54.7E

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	PCP	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2
	NO PCP	.0	.4	.3	.0	.0	.0	.0	.2	.2	.0	.2	1.1
	TOT %	.0	.5	.2	.0	.0	.0	.0	.2	.2	.0	.2	1.2
5<10	PCP	.2	.0	.2	.0	.0	.2	.2	.0	.0	.0	.0	.7
	NO PCP	1.0	2.1	1.8	*	.1	.3	2.1	1.8	.0	.5	.5	9.7
	TOT %	1.2	2.1	2.0	*	.1	.4	2.3	1.8	.0	.5	.5	10.4
10<	PCP	.2	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.5
	NO PCP	9.5	11.0	7.9	3.2	1.9	5.0	19.4	15.3	.0	14.7	.8	67.8
	TOT %	9.6	11.0	7.9	3.2	1.9	5.0	19.6	15.5	.0	14.7	.8	68.3
TOT OBS													585
TOT PCT		10.8	13.3	10.1	3.2	2.0	5.4	22.0	17.5	.0	15.4	100.0	

DECEMBER

PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1885-1970

AREA 0022 S. E. PERSIAN GULF  
26.0N 54.7E

TABLE 9

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

VSBY (M)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	0-3	.1	.2	.0	.0	.0	.2	.1	.0	.0	.5	1.1	1.1
	4-10	1.0	1.1	.7	.0	.2	.2	1.0	.6	.0	.0	4.8	4.8
	11-21	.0	1.0	1.0	.0	.1	.2	.7	1.0	.0	.0	4.0	4.0
	TOT %	1.1	2.3	1.8	.0	.3	.6	2.0	1.6	.0	.5	10.1	10.1
10+	0-3	1.0	1.7	1.0	.6	.4	1.3	1.9	1.2	.0	15.4	25.0	25.0
	4-10	0.5	6.1	4.4	2.1	1.7	2.1	11.5	9.7	.0	.0	44.1	44.1
	11-21	1.5	3.3	1.5	.4	.0	1.0	5.2	3.9	.0	.0	16.8	16.8
	TOT %	9.4	11.4	7.1	3.1	2.3	4.6	19.6	15.5	.0	15.4	86.7	86.7
TOT OBS												631	
TOT PCT		10.3	9.0	3.1	2.5	5.2	21.9	17.3	.0	16.0	100.0		

PERIOD (PRIMARY) 1948-1970  
(OVER-ALL) 1883-1970

DECEMBER

AREA 0022 S. E. PERSIAN GULF  
26.0N 94.7E

TABLE 10  
PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000		150		300		600		1000		2000		3500		5000		8000+		TOTAL		NH <5/8 ANY HGT		TOTAL	
	149	000	299	150	399	599	999	1999	3999	5999	7999	17999	34999	49999	64999	79999	89999	99999	100000	100000	100000	100000	100000	100000
00003	.0	.0	.0	.0	.8	.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5	.0	.0	.0	.8	5.4	94.6	130				
06009	.0	.0	.0	.0	.7	.7	2.0	2.7	2.7	2.7	2.7	2.7	2.7	.0	.0	.0	.0	7.3	92.7	150				
12015	.0	.0	.0	.0	.6	.6	1.3	4.5	4.5	4.5	4.5	4.5	4.5	.6	1.3	.0	.0	9.1	90.9	154				
18021	.0	.0	.9	.0	.0	.0	.9	.9	.9	.9	.9	.9	.9	.0	.0	.0	.0	2.8	97.2	109				
TOT	0	0	1	3	3	3	8	14	14	14	14	14	14	2	3	0	1	35	505	542				
PCT	.0	.0	.2	.6	.6	.6	1.5	2.6	2.6	2.6	2.6	2.6	2.6	.4	.6	.0	.2	6.4	93.5	100.0				

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2		1/2-1		1-2		2-5		5-10		10+		TOTAL	
	1/2	1/2-1	1-2	2-5	5-10	10+	10+	10+	10+	10+	10+	10+	10+	10+
00003	.0	.0	.0	.0	.0	.0	2.5	9.2	88.2	119				
06009	.0	.0	.0	.0	1.4	6.9	91.7	144						
12015	.0	.0	.0	.0	.0	6.4	93.6	141						
18021	.0	.0	.0	.0	.0	9.3	90.7	107						
TOT	0	0	0	0	5	40	446	511						
PCT	.0	.0	.0	.0	1.0	7.8	91.2	100.0						

TABLE 12

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

HOUR (GMT)	<150		<600		<1000		1000+		NH <5/8		TOTAL	
	<500	<500	<1	<1	<5	<5	AND 5+	AND 5+	AND 5+	AND 5+	AND 5+	AND 5+
00003	.0	.0	.8	.8	4.2	3.4	92.4	119				
06009	.0	.0	.7	.7	2.8	5.6	91.7	144				
12015	.0	.0	.7	.7	1.4	8.5	90.1	141				
18021	.0	.0	.9	.9	.9	1.9	97.2	107				
TOT	0	0	4	4	12	26	473	511				
PCT	.0	.0	.8	.8	2.3	5.1	92.6	100.0				

DECEMBER

PERIOD (PRIMARY) 1948-1970  
(OVER-ALL) 1895-1970

AREA 0022 S. E. PERSIAN GULF  
26.0N 54.7E

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-24	30-39	40-49	50-59	60-69	70-79	80-89	90-100				
85/39	.0	.0	.0	.0	.5	1.2	.0	.0	.0	.0	3	.7
80/34	.0	.2	.5	.5	1.9	1.0	.2	.0	.0	.0	18	4.4
75/29	.0	1.7	2.9	5.1	10.7	12.1	4.9	1.2	.0	.0	159	38.6
70/24	.0	.0	2.4	9.2	15.3	9.7	7.5	1.2	.0	.0	187	45.4
65/19	.0	.0	1.2	2.2	2.7	1.5	1.2	.7	.0	.0	39	9.5
60/14	.0	.0	.0	.2	.5	.7	.0	.0	.0	.0	6	1.5
TOTAL	.0	.8	29	71	130	104	57	13	.0	.0	412	100.0
PCT	.0	1.9	7.0	17.2	31.6	25.2	13.8	3.2	.0	.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP												
N	NE	E	SE	S	SW	W	NW	VAR	CALM			
.0	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.2
.0	.5	1.0	.5	.0	.2	1.2	.7	.0	.0	.0	.0	.2
4.1	4.1	5.0	1.6	1.0	2.8	8.7	4.1	.0	.0	.0	.0	7.3
5.6	6.0	4.4	.8	.9	2.4	5.6	8.7	.0	.0	.0	.0	7.8
.5	1.4	.4	.0	.0	.5	2.9	2.5	.0	.0	.0	.0	1.0
.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4.4	.5	4.4	1.3	.9	.0	.0	.7	.0	.0	.0	.0	.0
10.7	12.5	10.7	3.2	2.2	2.9	21.4	16.9	.0	.0	.0	.0	16.5

TABLE 15

HOUR (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR							TOTAL OBS	
	MAX	99%	95%	50%	5%	1%	MIN		
0603	81	80	78	72	65	63	63	72.0	172
0609	86	85	81	75	57	62	62	74.6	177
1215	86	85	82	75	66	64	63	74.9	189
1821	86	84	80	73	66	63	63	72.4	137
TOT	86	84	80	74	66	63	62	73.6	675

TABLE 16

HOUR (GMT)	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL OBS
	0-29	30-59	60-69	70-79	80-89	90-100	MEAN				
0603	.0	19.2	33.3	25.3	18.2	5.0	69	.0	.0	.0	99
0609	.0	29.8	31.4	21.5	14.9	5.5	66	.0	.0	.0	121
1215	.0	34.5	26.9	30.3	6.7	1.7	65	.0	.0	.0	119
1821	.0	17.6	35.2	26.4	16.5	4.4	70	.0	.0	.0	191
TOT	0	112	135	111	55	13	67	.0	.0	.0	430



DECEMBER

PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1885-1970

AREA 0022 S. E. PERSIAN GULF  
26.0N 54.7E

TABLE 17

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

AIR-SEA TMP DIF	61	65	67	73	77	81	85	TOT	W	WU
	64	68	72	76	80	84	88	FOG	FOG	FOG
9/10	.0	.0	.0	.0	.0	.0	.2	1	.0	.2
7/8	.0	.0	.0	.0	.2	.2	.2	3	.0	.6
6	.0	.0	.0	.0	.4	.4	.2	4	.0	.8
5	.0	.0	.0	.2	.0	.4	.0	3	.0	.6
4	.0	.0	.0	.2	.4	.2	.0	4	.0	.8
3	.0	.0	.0	.2	.4	.0	.0	3	.0	.6
2	.0	.0	.0	.6	1.5	.8	.0	14	.0	2.9
1	.0	.0	.0	2.3	1.9	.2	.0	21	.0	4.4
0	.0	.0	.2	4.0	4.6	.8	.0	49	.2	9.4
-1	.0	.0	.6	6.0	2.3	.0	.0	43	.0	9.0
-2	.0	.0	1.9	5.8	1.7	.0	.0	45	.2	9.2
-3	.0	.4	1.5	6.3	1.5	.0	.0	46	.0	9.6
-4	.0	.4	3.4	7.5	.4	.0	.0	68	.0	14.2
-5	.2	.6	3.5	5.4	.6	.0	.0	50	.0	10.4
-6	.0	.6	3.8	1.7	.0	.0	.0	29	.0	6.0
-7/-8	.2	2.5	6.3	2.1	.2	.0	.0	54	.0	11.3
-9/-10	.4	2.9	2.1	.4	.0	.0	.0	28	.0	5.8
-11/-13	.8	1.5	1.0	.0	.0	.0	.0	16	.0	3.3
-14/-16	.0	.4	.0	.0	.0	.0	.0	2	.0	.4
TOTAL	10	45	126	205	76	15	3	480	2	478
PCT	2.1	9.4	26.3	42.7	15.8	3.1	.6	100.0	.4	99.6

PERIOD: (PRIMARY)  
(COVER-ALL) 1983-1970

DECEMBER  
TABLE 18

AREA 0022 S. E. PERSIAN GULF  
26.0N 54.7E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (F1)

HGT	N				NE				48+	PCT						
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3			4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	4.5	.0	.0	.0	.0	.0	.0	.0	5.4	1.0	3.2	1.0	.0	.0	5.2
1-2	1.0	5.0	.0	.0	.0	.0	.0	.0	.0	5.9	1.0	3.2	1.0	.0	.0	4.2
3-4	.0	1.5	.0	.0	.0	.0	.0	.0	.0	1.5	.0	3.0	1.0	.0	.0	4.0
5-6	.0	1.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	1.0	1.2	.0	.0	2.2
7	.0	.0	1.0	.0	.0	.0	.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	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.0	11.5	1.0	.0	.0	.0	.0	.0	.0	14.9	2.0	9.2	4.5	.0	.0	15.4

HGT	E				SE				48+	PCT						
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3			4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	2.0	.0	.0	.0	.0	.0	.0	.0	3.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.0	.7	.0	.0	.0	.0	.0	.0	1.7	.0	1.0	.0	.0	.0	1.0
3-4	.0	1.0	1.0	.0	.0	.0	.0	.0	.0	2.5	.0	1.0	.2	.0	.0	1.2
5-6	.0	1.0	.7	.0	.0	.0	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	5.4	2.5	.0	.0	.0	.0	.0	.0	14.9	.0	2.0	4.2	.0	.0	2.2

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

HGT	S				SM				48+	PCT
	1-3	4-10	11-21	22-33	34-47	48+	11-21	22-33		
<1	.7	1.0	.0	.0	.0	.0	.0	.0	.0	1.2
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0
3-4	.0	.7	.7	.0	.0	.0	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.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
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	1.7	.7	.3	.3	.0	3.2	.0	.0	7.4

HGT	M				NW				48+	PCT
	1-3	4-10	11-21	22-33	34-47	48+	11-21	22-33		
<1	1.7	2.7	1.0	.0	.0	.0	5.4	.0	.0	4.7
1-2	.7	6.4	4.7	.0	.0	.0	11.9	.0	.0	6.5
3-4	.0	3.2	4.2	.0	.0	.0	7.4	.0	.0	3.5
5-6	.0	.0	2.0	1.0	.0	.0	3.6	.0	.0	1.0
7	.0	1.0	.0	.0	.0	.0	1.0	.0	.0	1.0
8-9	.0	.0	.0	.7	.0	.0	.7	.0	.0	.2
10-11	.0	.0	.0	.7	.0	.0	.7	.0	.0	.2
12	.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
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.5	13.4	11.9	2.5	.3	.0	30.2	.5	.0	17.6

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

DECEMBER

AREA 0022 S. E. PERSIAN GULF  
26.0N 54.7E

TABLE 18 (CONT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	28.6	12.8	2.3	.0	.0	.0	43.6	
1-2	2.3	16.5	9.0	.0	.0	.0	27.8	
3-4	.0	10.5	6.0	.0	.0	.0	16.5	
5-6	.0	3.0	4.3	.8	.0	.0	8.3	
7	.0	.3	1.5	.0	.0	.0	2.3	
8-9	.0	.0	.0	.8	.0	.0	.8	
10-11	.0	.0	.0	.8	.0	.0	.8	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	30.6	43.6	23.3	2.3	.0	.0	100.0	133

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	9-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<1	6.4	25.8	12.6	4.1	.5	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	195	2
6-7	.0	1.0	2.6	2.6	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	4
8-9	.0	.0	.5	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	6
10-11	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	1
12-13	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
INDET	39.5	4.1	2.3	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	158	0
TOTAL	155	120	70	29	9	3	1	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	306	2
PCT	39.9	30.9	18.0	7.5	2.3	.8	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	0

ANNUAL

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

PERIOD: (PRIMARY) 1956-1971  
(OVER-ALL) 1864-1971

TABLE 1  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHHR	OPAL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS		
				PCPN	FRZN	SNOW					PCPN	FOG	SMOKE	HAZE	BLWG		DUST	SIG
N	.1	.1	"	.0	.0	.0	.0	.1	9	.1	.1	.2	.1	.1	.1	.1	5.2	372
NE	.7	.1	"	.0	.0	.0	.0	.3	20	.1	*	.5	.1	*	.1	.1	8.3	592
E	.1	.1	"	.0	.0	.0	.0	.2	16	.1	.1	1.1	.2	.2	.2	.2	8.7	626
SE	.1	.1	"	.0	.0	.0	.0	*	3	.1	*	.5	.1	*	.1	.1	3.8	279
S	.0	.1	"	.0	.0	.0	.0	*	1	*	*	.6	.2	.2	.2	.2	4.8	356
SW	.1	.1	"	.0	.0	.0	.0	*	3	.1	.1	1.3	.3	.3	.3	.3	10.8	807
W	.1	.1	"	.0	.0	.0	.0	.1	8	.1	.2	1.8	.8	.8	.8	.8	22.2	1614
NW	.1	.1	"	.0	.0	.0	.0	.1	9	.1	.1	.8	.4	.4	.4	.4	11.2	820
VAR	.0	.0	"	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALC	.45	.17	"	.0	.0	.0	.0	.1	4	.0	.2	1.2	.3	.3	.3	.3	12.1	863
TOT OBS									77		58	489	157	157	157	157	5533	6342
TOT PCT									1.1		.9	8.0	2.5	2.5	2.5	2.5	87.0	109.0

TABLE 2  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHHR	ORZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS		
				PCPN	FRZN	SNOW					PCPN	FOG	SMOKE	HAZE	BLWG		DUST	SIG
0000Z	1.0	.3	.2	.0	.0	.0	.0	.4	26	.9	.9	7.6	2.1	2.1	2.1	2.1	87.4	1697
0600Z	.4	.2	.2	.0	.0	.0	.0	.9	17	.3	1.3	8.6	2.1	2.1	2.1	2.1	86.7	1813
1200Z	.4	.3	.2	.0	.0	.0	.0	.9	9	.2	.5	9.6	2.9	2.9	2.9	2.9	85.9	1800
1800Z	.8	.2	.1	.0	.0	.0	.0	1.2	18	.9	.6	6.4	2.7	2.7	2.7	2.7	88.3	1480
TOT	4.8	1.7	1.6	.0	.0	.0	.0		80	37	60	531	164	164	164	5926	6790	
PCT	.6	.2	.2	.0	.0	.0	.0	1.1		.6	.9	8.1	2.5	2.5	2.5	2.5	87.0	109.0

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PERIOD: (PRIMARY) 1938-1971  
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TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)											
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPO													
N	1.3	3.3	1.0	.1	*	.0	439	5.6	7.1	6.1	4.9	6.5	2.7	4.7	4.1	5.6	8.6					
NE	1.5	5.9	1.9	.1	.0	.0	719	9.4	7.5	8.3	12.1	14.5	13.8	8.0	5.7	5.2	7.6					
E	2.0	5.9	2.2	.1	.0	.0	764	10.2	7.6	8.1	15.6	14.8	13.6	10.5	7.2	6.3	7.3					
SE	1.0	2.7	.5	*	.0	.0	335	4.5	6.5	4.5	5.0	5.8	5.1	4.7	2.2	3.0	3.0					
S	1.4	3.4	.9	.1	.0	.0	449	5.9	7.0	6.3	9.0	6.8	6.1	6.9	5.8	3.2	4.7					
SW	1.9	8.4	2.6	.1	.0	.0	958	13.0	7.8	10.0	9.5	11.4	17.0	18.3	13.4	10.0	15.6					
W	3.1	14.6	6.5	.8	*	.0	1941	25.2	9.0	24.6	19.0	17.4	22.9	26.1	36.2	33.5	20.5					
NW	1.8	7.1	3.6	.4	*	.0	1003	13.0	8.9	15.7	13.5	9.5	9.1	8.3	16.9	18.6	16.6					
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
CALM	13.3	3916	1520	151	.6	.0	1001	13.3	7.1	16.3	11.4	13.2	9.5	11.6	8.4	14.5	10.1					
TOT OBS	2056	1973	1973	1.8	.1	.0	7649	100.0		1665	221	1829	394	1760	307	1381	292					
TOT PCT	27.3	51.6	19.3	1.8	.1	.0	100.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0					

TABLE 3A

WIND SPEED (KNOTS)

WIND DIR	WIND SPEED (KNOTS)																		
	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPO	HOUR (GMT)										
N	3.1	2.2	.2	*	.0	439	5.6	7.1	6.0	4.9	6.5	2.7	4.7	4.1	5.6	8.6			
NE	4.5	4.4	.4	*	.0	719	9.4	7.5	9.2	14.3	14.5	13.8	8.0	5.7	5.2	7.6			
E	5.0	4.7	.3	*	.0	764	10.2	7.6	8.9	14.6	14.8	13.6	10.5	7.2	6.3	7.3			
SE	2.8	1.6	.3	.0	.0	335	4.5	6.5	4.6	5.8	5.1	4.7	2.2	3.0	3.0	3.0			
S	3.5	2.2	.3	*	.0	449	5.9	7.0	6.6	6.7	6.8	6.9	5.8	3.2	4.7	4.7			
SW	6.0	6.3	.6	*	.0	996	13.0	7.8	10.0	12.4	18.0	17.9	18.3	13.4	10.0	15.6			
W	10.0	12.6	2.4	.2	.0	1941	25.2	9.0	23.5	18.4	22.9	26.1	36.2	33.5	20.5	20.5			
NW	5.4	6.0	1.5	.1	.0	1003	13.0	8.9	15.4	9.6	9.7	18.6	18.6	16.6	16.6	16.6			
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CALM	13.3	3092	495	35	0	1001	13.3	7.1	15.8	12.6	11.4	13.2	9.5	11.6	8.4	14.5	10.1		
TOT OBS	4027	4027	495	35	0	7649	100.0		1586	2023	2067	1673	1586	2023	2067	1673			
TOT PCT	53.4	40.1	6.1	1.4	.0	100.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0			

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)				PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33		
0603	15.8	13.0	48.8	20.7	1.6	.1	1886
0609	12.6	15.9	54.0	15.9	1.5	*	2023
1215	11.1	14.4	52.8	19.6	2.1	*	2067
1821	13.7	12.4	50.4	21.5	1.8	.1	1673
TOT	1091	1055	3916	1520	151	6	7549
PCT	13.3	14.0	51.6	19.3	1.8	.1	100.0

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8

ANO OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION								PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8 ANO OCCURRENCE OF NH <5/8 BY WIND DIRECTION								
	0-2	3-4	5-7	8-6	TOTAL DBSD	MEAN CLOUD COVER	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+ ANY HGT	TOTAL DBS
N	4.3	.6	.4	.4	.4	1.4	.0	.0	.1	.1	.1	.1	.1	.1	.1	.1	330
NE	6.7	.7	1.2	.8	.8	1.8	.0	.0	.1	.3	.2	.2	.1	.1	.1	.1	526
E	7.2	1.1	1.3	.6	.6	1.8	.0	.0	.1	.2	.2	.2	.1	.1	.1	.1	557
SE	3.4	.3	.3	.1	.1	1.6	.0	.0	.0	.1	*	*	.1	.0	.0	.0	238
S	4.4	.4	.6	.3	.3	1.8	.0	.0	.0	.1	.1	.1	.1	.1	.1	.1	317
SW	10.5	.5	.5	.3	.3	1.1	.0	.0	.0	.1	.1	.1	.1	.1	.1	.1	713
W	21.2	1.7	1.6	.6	.6	1.0	.0	.0	.0	.2	.2	.2	.1	.1	.1	.1	1435
NW	16.4	1.0	1.0	.5	.5	1.2	.0	.0	.0	.1	.2	.2	.1	.1	.1	.1	739
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	11.8	1.0	.7	.4	.4	.9	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	776
TOT DBS	4454	453	487	239	5633	1.3	10	3	13	40	80	73	42	20	27	58	5633
TOT PCT	80.0	7.8	8.3	4.0	100.0	1.3	.2	.2	.7	1.3	1.2	.7	.5	.4	1.0	.4	100.0

TABLE 5

PERIOD: (PRIMARY) 1936-1971  
(OVER-ALL) 1864-1971

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TABLE 7

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

CEILING (FEET)	OR		OR		OR		OR		OR	
	>10	>5	>2	>1	>1/2	>1/4	>50Y0	>0	CR	>0
OR >6500	1.0	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
OR >5000	1.4	1.8	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0
OR >3500	2.0	2.6	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
OR >2000	2.9	3.8	3.9	4.0	4.0	4.0	4.0	4.0	4.0	4.0
OR >1000	3.8	5.0	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
OR >500	4.2	5.6	5.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9
OR >300	4.3	5.7	6.0	6.1	6.1	6.1	6.1	6.1	6.1	6.1
OR >150	4.4	5.8	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
OR >0	4.4	5.8	6.1	6.2	6.2	6.2	6.2	6.2	6.2	6.2
TOTAL	275	357	383	386	387	388	390	390	390	390

TOTAL NUMBER OF OBS: 5967

PCT FREQ NH <5/8: 93.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL
	65.5	13.0	5.9	3.1	1.8	1.6	1.6	1.3	2.1	.2
										6369



PERIOD: (PRIMARY) 1958-1971  
(OVER-ALL) 1864-1971

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TABLE 8

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

VSBY (NH)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	*	.1	*	*	*	*	*	.0	*	.2	.2
	.0	*	.1	*	*	*	*	*	.0	*	.2	.2
1/2<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	*	*	.0	.0	.0	*	.1	*	.0	.0	.1	.1
	*	*	.0	.0	.0	*	.1	*	.0	.0	.1	.1
1<2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	*	*	.1	.1	.1	.1	.2	.1	.0	.0	.7	.7
	*	*	.1	.1	.1	.1	.2	.1	.0	.0	.7	.7
2<5	.0	*	*	.0	*	*	*	*	.0	.0	.1	.1
	.1	.2	.2	.2	.2	.4	.8	.2	.0	.5	2.8	2.8
	.1	.2	.2	.2	.2	.4	.8	.2	.0	.5	2.9	2.9
5<10	.1	.1	.1	*	*	*	*	*	.0	.0	.4	.4
	.9	1.4	2.5	1.0	1.4	2.8	4.5	2.5	.0	2.4	19.3	19.3
	.9	1.5	2.5	1.0	1.4	2.8	4.5	2.6	.0	2.4	19.7	19.7
10+	.1	.2	.1	*	.0	*	.1	.1	.0	*	.6	.6
	4.6	7.3	7.1	3.3	4.0	9.4	19.6	9.6	.0	10.8	75.8	75.8
	4.6	7.5	7.3	3.4	4.0	9.4	19.6	9.7	.0	10.9	76.4	76.4
TOT OBS	3.7	9.4	10.3	4.6	5.7	12.6	25.2	12.6	.0	13.8	100.0	6333
TOT PCT												

PER1001 (PRIMARY) 1938-1971  
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TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
	4-10	.0	.4	.*	.*	.*	.*	.*	.0	.0	.0	.1	.1
	11-21	.0	.*	.*	.0	.0	.0	.0	.*	.0	.0	.*	.*
	TOT %	.0	.*	.1	.*	.*	.*	.*	.*	.0	.1	.2	.2
1/2<1	0-3	.*	.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
	TOT %	.*	.0	.0	.0	.0	.*	.*	.*	.0	.*	.1	.1
1<2	0-3	.0	.0	.*	.*	.*	.*	.*	.*	.0	.0	.1	.1
	4-10	.0	.*	.1	.*	.1	.1	.1	.*	.0	.0	.4	.4
	11-21	.0	.0	.*	.0	.0	.0	.1	.*	.0	.0	.1	.1
	TOT %	.0	.0	.1	.1	.1	.1	.2	.1	.0	.0	.7	.7
2<5	0-3	.*	.*	.*	.*	.*	.1	.1	.*	.0	.5	.8	.8
	4-10	.1	.1	.1	.1	.1	.3	.4	.1	.0	.0	1.2	1.2
	11-21	.*	.1	.1	.*	.*	.1	.0	.1	.0	.0	.7	.7
	TOT %	.1	.2	.2	.1	.2	.4	.8	.2	.0	.5	2.8	2.8
5<10	0-3	.2	.2	.4	.7	.2	.4	.6	.4	.0	2.3	4.8	4.8
	4-10	.4	1.3	1.4	.7	.8	1.7	2.4	1.2	.0	.0	9.7	9.7
	11-21	.2	.5	.7	.1	.2	.5	1.2	.8	.0	.0	4.3	4.3
	TOT %	.8	1.6	2.5	1.0	1.3	2.7	4.4	2.4	.0	2.3	19.1	19.1
10+	0-3	1.0	1.3	1.5	.7	1.0	1.4	2.5	1.4	.0	10.5	21.3	21.3
	4-10	2.7	4.8	4.4	2.1	2.5	5.3	11.9	5.7	.0	.0	40.3	40.3
	11-21	.7	1.4	1.3	.4	.7	1.8	5.0	2.7	.0	.0	14.3	14.3
	TOT %	4.6	7.5	7.3	3.3	4.2	9.1	20.0	10.1	.0	10.5	77.0	77.0
TOT OBS												733+	
TOT PCT		5.6	9.4	10.3	4.5	5.8	12.9	25.3	12.9	.0	13.3	100.0	

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26.1N 54.7E

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PER1001 (PRIMARY) 1938-1971  
(OVER-ALL) 1861-1971

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3999	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.2	.0	.4	.5	1.0	1.3	.5	.1	.2	.8	5.0	95.0	1564
06009	.1	.1	.2	.3	1.7	1.4	.7	.6	.4	1.4	7.2	92.8	1703
12015	.0	.0	.2	1.0	1.0	1.2	.7	.6	.7	1.0	6.3	93.7	1667
18021	.3	.1	.1	.6	1.0	.7	.8	.5	.2	.6	4.8	95.2	1379
TOT	.6	.3	.9	3.8	6.7	5.3	3.7	3.4	2.1	6.3	39.4	98.1	6313
PCT	.2	.1	.3	1.3	2.3	1.8	1.4	1.3	.8	1.6	10.1	100.0	

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	< 2	1/2<1	1<2	2<3	5<10	10+	TOTAL OBS
00003	.1	.0	.3	2.2	15.2	82.2	1468
06009	.1	.0	.5	2.7	19.3	77.6	1622
12015	.1	.0	.6	2.6	.8	78.1	1555
18021	.2	.1	.5	2.7	16.7	80.0	1326
TOT	.7	.1	1.9	14.8	101.4	4782	5971
PCT	.1	.2	3.3	24.6	170.5	799.5	100.0

TABLE 14

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

HOUR (GMT)	< 150 < 500D	< 600 < 1	< 1000 < 5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.3	.7	3.4	3.9	92.6	1468
06009	.2	.6	3.7	6.5	89.8	1622
12015	.0	.2	4.2	5.3	90.4	1555
18021	.3	.6	4.1	3.8	92.1	1326
TOT	1.1	3.1	22.8	31.4	5429	5971
PCT	.2	.5	3.9	5.0	91.1	100.0

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PERIOD: (PRIMARY) 1936-1971  
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AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OPS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	WIND DIRECTION BY TEMP			
	N	NE	E	SE	S	SW	W	NW	VAR	CALM		
100/104	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
95/99	.0	.0	.0	.4	1.0	.8	.8	.2	.2	.2	.5	.4
90/94	.0	.0	.2	1.2	3.1	7.2	5.8	1.2	1.1	2.6	4.4	1.7
85/89	.0	.0	.3	1.2	2.9	6.3	7.9	3.3	1.7	3.8	5.8	2.5
80/84	.0	.0	.3	1.1	3.1	4.0	3.6	2.1	1.1	2.3	3.9	1.7
75/79	.0	.2	.6	1.6	3.2	4.7	3.2	1.5	.9	1.5	3.8	1.8
70/74	.0	.1	.7	2.4	4.1	4.6	4.5	1.8	.7	2.1	4.7	2.8
65/69	.0	.4	.4	1.0	2.1	2.4	1.5	.8	.2	.7	2.2	1.6
60/64	.0	.0	.1	.2	.2	.3	.2	.1	.1	.1	.3	.1
55/59	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0
TOTAL	0	17	133	478	1012	1520	1325	547	215	288	680	1303
PCT	.0	.3	2.6	9.3	19.6	30.3	26.9	10.7	4.4	5.8	13.3	25.6

TABLE 14

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OPS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	WIND DIRECTION BY TEMP			
	N	NE	E	SE	S	SW	W	NW	VAR	CALM		
100/104	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
95/99	.0	.0	.0	.4	1.0	.8	.8	.2	.2	.2	.5	.4
90/94	.0	.0	.2	1.2	3.1	7.2	5.8	1.2	1.1	2.6	4.4	1.7
85/89	.0	.0	.3	1.2	2.9	6.3	7.9	3.3	1.7	3.8	5.8	2.5
80/84	.0	.0	.3	1.1	3.1	4.0	3.6	2.1	1.1	2.3	3.9	1.7
75/79	.0	.2	.6	1.6	3.2	4.7	3.2	1.5	.9	1.5	3.8	1.8
70/74	.0	.1	.7	2.4	4.1	4.6	4.5	1.8	.7	2.1	4.7	2.8
65/69	.0	.4	.4	1.0	2.1	2.4	1.5	.8	.2	.7	2.2	1.6
60/64	.0	.0	.1	.2	.2	.3	.2	.1	.1	.1	.3	.1
55/59	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0
TOTAL	0	17	133	478	1012	1520	1325	547	215	288	680	1303
PCT	.0	.3	2.6	9.3	19.6	30.3	26.9	10.7	4.4	5.8	13.3	25.6

TABLE 15

HOUR (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL OBS	
	MAX	99%	95%	50%	5%	1%	MIN	MEAN	90-100	MEAN		
0000	95	85	83	79	74	72	55	78.5	34.2	18.1	79	1393
0600	99	90	87	82	77	73	57	81.3	26.4	7.4	74	1431
1200	100	91	89	83	77	74	59	81.8	15.5	5.4	70	1403
1800	97	86	84	80	75	73	57	79.7	30.7	12.0	76	1165
TOT	100	90	87	81	76	73	55	80.4	1404	583	75	5304

AREA 0022 S. E. PERSIAN GULF  
26. IN 54.7E

ANNUAL

PERIOD: (PRIMARY) 1938-1971  
(OVER-ALL) 1844-1971

TABLE 17  
PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53	57	61	65	69	73	77	81	85	89	93	YOT	MO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	28	.4
9/10	.0	.0	.0	.0	.0	.0	.4	.2	.2	.1	.2	55	.9
7/8	.0	.0	.0	.0	.0	.1	.2	.4	.5	.4	.5	139	2.2
6	.0	.0	.0	.0	.0	.2	.4	.3	.3	.3	.3	127	2.1
5	.0	.0	.0	.0	.0	.3	.3	.5	.4	.4	.6	163	2.8
4	.0	.0	.0	.0	.1	.2	.6	.5	.6	.9	.6	209	3.6
3	.0	.0	.0	.0	.1	.5	.7	.9	.9	1.1	1.2	307	5.4
2	.0	.0	.0	.0	.4	1.1	1.0	1.1	1.6	2.0	.9	460	7.9
1	.0	.0	.0	.0	.6	1.6	1.2	1.0	1.7	2.0	.6	538	9.5
0	.0	.0	.0	.1	1.3	2.2	1.3	1.6	2.6	4.1	.5	768	13.6
-1	.0	.0	.0	.2	1.3	1.9	1.3	1.1	2.4	2.5	.1	626	11.1
-2	.0	.0	.0	.6	1.7	1.6	1.3	1.1	2.2	2.3	.4	611	10.7
-3	.0	.0	.0	.6	1.8	1.3	.8	.8	1.4	.9	.4	441	7.5
-4	.0	.0	.1	.8	1.9	1.4	.7	.7	1.1	.3	.4	406	7.0
-5	.0	.0	.2	.9	1.3	.8	.3	.5	.2	.2	.0	298	5.0
-6	.0	.0	.8	1.1	.4	.1	.1	.2	.3	.1	.0	184	3.1
-7/-8	.0	.0	.2	.9	1.3	.4	.1	.2	.3	.4	.0	209	3.5
-9/-10	.0	.0	.3	.7	.3	.1	.1	.1	.0	.0	.0	95	1.6
-11/-13	.0	.1	.2	.2	.1	.0	.0	.0	.0	.0	.0	33	.5
-14/-16	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	.1
TOTAL	1	13	65	363	860	852	633	662	967	938	294	5708	49
PCT	.2	1.0	3.7	13.5	13.9	10.9	11.4	17.5	18.8	5.9	100.0	49	98.5

ANNUAL  
TABLE 1B  
AREA 0022 S.F. PERSIAN GULF  
26.1N 54.7E

PERIOD: (PRIMARY) 1963-1971  
TABLE 1B  
P.T. FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N										E										TOT PCT	
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+		PCT
<1	.0	1.8	.0	.0	.0	.0	2.4	.0	2.7	.0	.0	.0	.0	3.7	.0	.0	.0	.0	.0	.0	.0	3.7
1-2	.2	1.7	.4	.0	.0	.0	2.3	.3	2.9	.7	.0	.0	.0	3.8	.0	.0	.0	.0	.0	.0	.0	3.8
3-4	.0	.5	.1	.0	.0	.0	.7	.1	1.2	1.4	.0	.0	.0	2.7	.0	.0	.0	.0	.0	.0	.0	2.7
5-6	.0	.1	.1	.0	.0	.0	.2	.0	.2	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.4
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	4.1	.7	.0	.0	.0	5.7	.2	7.0	2.8	.0	.0	.0	11.0	.0	.0	.0	.0	.0	.0	.0	11.0

HGT	N										E										TOT PCT	
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+		PCT
<1	.0	2.3	.0	.0	.0	.0	3.6	.0	1.4	.1	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	2.2
1-2	.4	2.7	.5	.0	.0	.0	3.6	.7	1.7	.5	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	2.0
3-4	.1	1.4	1.2	.0	.0	.0	2.6	.0	.3	1.1	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	1.4
5-6	.0	.4	.4	.0	.0	.0	.8	.1	.0	.1	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	6.4	2.4	.1	.0	.0	10.7	.8	3.1	.9	.0	.0	.0	4.8	.0	.0	.0	.0	.0	.0	.0	4.8

ANNUAL  
TABLE 18  
AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

PEF1001 (PRIMARY)  
(OVER-ALL) 1963-1971

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

HGT	S										TOT PCT			
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21		22-33	34-47	48+
<1	.7	1.4	.4	.0	.0	.0	.0	1.2	2.3	.2	.0	.0	.0	3.7
1-2	.5	2.1	.4	.0	.0	.0	3.0	.4	5.8	1.3	.0	.0	.0	7.5
3-4	.0	.5	.6	.0	.0	.0	1.1	.0	1.4	1.8	.0	.0	.0	3.3
5-6	.0	.1	.3	.2	.0	.0	.5	.0	.2	.6	.0	.0	.0	.8
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.2	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.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	1.2	4.0	1.6	.1	.0	.0	6.9	1.6	9.8	4.1	.2	.0	.0	15.7

HGT	W										TOT PCT			
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21		22-33	34-47	48+
<1	2.3	4.0	.2	.0	.0	.0	6.6	1.5	4.0	.3	.0	.0	.0	4.0
1-2	.8	6.5	3.2	.0	.0	.0	12.5	.3	4.0	1.1	.0	.0	.0	5.4
3-4	.0	2.6	3.9	.2	.0	.0	6.7	.2	1.6	1.9	.2	.0	.0	3.8
5-6	.0	.7	2.1	.4	.0	.0	3.2	.0	.2	.8	.0	.0	.0	1.0
7	.0	.1	.5	.2	.0	.0	.9	.0	.0	.2	.2	.1	.0	.2
8-9	.0	.0	.2	.1	.0	.0	.3	.0	.1	.1	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.1	16.0	10.1	1.1	.0	.0	30.3	2.0	8.1	4.4	.4	.1	.0	14.9

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

ANNUAL

TABLE 18 (CONT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	25.6	15.2	.8	.0	.0	.0	41.6	DBS
1-2	2.5	23.7	6.6	.0	.0	.0	32.9	
3-4	.3	7.4	9.2	.3	.0	.0	17.2	
5-6	.1	1.5	2.9	.4	.0	.0	5.9	
7	.0	.1	1.0	.5	.1	.0	1.7	
8-9	.0	.1	.3	.2	.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	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	28.5	48.0	21.9	1.5	.1	.0	100.0	1324

AREA: 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<67	11.8	26.8	13.3	2.9	.5	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2508	2
67-79	.1	1.0	2.7	2.0	.5	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	312	4
8-9	.1	.2	.4	.3	.5	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	59	5
10-11	.0	.2	.1	.1	.0	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	5
12-13	.0	.0	*	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	5
>13	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	6
INCEP	28.4	4.9	1.6	.4	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1589	1
TOTAL	1795	1483	829	267	86	33	11	1	0	0	0	0	0	0	0	0	0	0	0	0	4506	2
PCT	40.3	23.1	18.1	5.7	1.8	.7	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	2



AREA 0022 S. E. PERSIAN OULF  
26.0N 54.7E

TABLE 20

PERIOD: (PRIMARY) 1938-1971  
(OVER-ALL) 1908-1971

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	.6	.6	.0	.0	.0	6	.1
95/96	.0	.0	.0	.0	.0	.5	4.6	2.7	1.7	.2	.0	.0	24	.3
93/94	.0	.0	.0	.0	.0	2.4	28.1	19.0	10.6	.9	.0	.0	183	2.6
91/92	.0	.0	.0	.0	.0	16.3	38.4	43.3	35.5	8.6	.2	.0	605	8.6
89/90	.0	.0	.0	.0	.5	28.8	20.1	22.9	33.7	25.5	1.9	.0	733	10.5
87/88	.0	.0	.0	.0	2.7	28.8	7.5	9.9	12.5	28.2	4.0	.0	579	8.3
85/86	.0	.0	.0	.4	10.0	30.8	1.3	1.4	4.0	22.5	13.2	.2	504	7.2
83/84	.0	.0	.0	1.1	25.5	14.1	1.3	.2	1.2	10.2	23.4	1.4	440	6.3
81/82	.5	.0	.3	4.0	29.5	7.9	.0	.0	.2	2.8	31.4	8.6	463	6.6
79/80	1.1	.6	.8	12.8	21.7	1.4	.0	.0	.0	1.1	17.5	21.4	455	6.5
77/78	3.9	1.7	8.9	27.3	8.5	.2	.0	.0	.0	.0	6.7	26.6	530	7.6
75/76	16.7	10.0	28.2	28.7	3.6	.0	.0	.0	.0	.0	2.5	18.6	744	10.6
73/74	27.1	29.1	29.8	17.7	.2	.0	.0	.0	.0	.0	.2	13.8	748	10.7
71/72	26.2	30.2	17.9	5.3	.0	.0	.0	.0	.0	.0	.0	4.7	557	8.0
69/70	19.8	20.1	10.6	2.2	.0	.0	.0	.0	.0	.0	.0	1.0	316	4.5
67/68	1.8	5.7	2.3	.2	.0	.0	.0	.0	.0	.0	.0	.3	73	1.1
65/66	1.1	1.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.2	19	.3
63/64	.6	.3	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	.4
61/62	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.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
427	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	652	642	744	554	637	587	477	515	519	568	525	575	6995	100.0
MEAN	73.1	71.9	73.5	76.2	81.6	86.4	89.5	91.1	90.4	87.4	82.1	76.9	81.0	

PERIOD: (PRIMARY) 1936-1971  
(OVER-ALL) 1908-1971

AREA 0022 S. E. PENNSIAN GULF  
26.0N 54.7E

TABLE 21  
PRESSURE (MB)

MO	AVERAGE BY HOUR (GMT)												TOTAL DBS	EXTREMES							
	0300	0600	0900	1200	1500	1800	2100	MEAN	MAX	YEAR	DA	HR		MIN	YEAR	DA	HR				
JAN	1017	1018	1019	1017	1016	1018	1019	1017	1016	1018	1019	1017	700	1026	1932	11	12	1004	1963	10	12
FEB	1015	1016	1017	1014	1015	1015	1015	1015	1014	1015	1015	678	1025	1960	02	00	1005	1934	15	15	
MAR	1012	1012	1013	1014	1013	1013	1014	1013	1014	1013	1013	769	1022	1933	27	18	1001	1949	08	00	
APR	1008	1010	1011	1010	1009	1011	1010	1010	1010	1010	1010	572	1020	1933	01	09	1000	1968	23	00	
MAY	1005	1005	1007	1006	1005	1005	1005	1006	1004	1005	1006	632	1013	1937	04	00	993	1936	29	12	
JUN	999	1002	1001	1002	1000	1000	999	998	998	1000	1000	636	1010	1932	06	12	996	1946	30	18	
JUL	996	998	997	997	996	996	996	996	995	996	996	480	1005	1921	11	06	975	1922	29	00	
AUG	949	999	999	998	998	998	999	999	999	999	999	531	1007	1924	29	06	991	1956	04	18	
SEP	1004	1006	1006	1004	1003	1005	1004	1004	1004	1004	1005	504	1013	1945	01	06	984	1937	09	15	
OCT	1010	1012	1012	1011	1011	1011	1011	1011	1012	1011	1011	549	1019	1967	28	17	1004	1952	11	18	
NOV	1015	1016	1017	1015	1015	1016	1015	1016	1016	1016	1016	545	1022	1963	02	12	1007	1955	03	11	
DEC	1017	1018	1019	1018	1015	1018	1018	1018	1018	1018	1018	619	1025	1913	30	15	1008	1954	01	16	
ANN	1008	1011	1011	1010	1009	1010	1009	1010	1010	1009	1009	7305									
ONS	1022	1044	1044	1028	1011	1022	1022	1028	1022	1022	1028	199									

PERCENTILES

MO	1%	5%	25%	50%	75%	95%	99%
JAN	1006	1012	1016	1016	1020	1023	1025
FEB	1004	1010	1013	1016	1018	1021	1022
MAR	1004	1008	1011	1013	1015	1018	1020
APR	1001	1004	1008	1010	1012	1015	1018
MAY	998	1000	1004	1006	1008	1011	1012
JUN	992	995	997	1000	1002	1006	1008
JUL	988	992	995	997	998	1001	1003
AUG	992	994	997	999	1001	1004	1006
SEP	996	998	1002	1005	1007	1010	1011
OCT	1004	1006	1009	1011	1014	1016	1018
NOV	1009	1011	1014	1016	1018	1020	1021
DEC	1010	1013	1016	1018	1019	1022	1024

JANUARY

AREA 0023 N. E. PERSIAN GULF  
27.3N 51.7E

PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1908-1971

TABLE 1  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN		RAIN SHWR		ORZL		PRECIPITATION TYPE			HAIL		PCT FREQ		TOTAL		THOR		OTHER WEATHER PHENOMENA					TOTAL DBS			
		SHWR		SHWR	ORZL	FRZG	SNOW	OTHER	FRZN	PCPN		PCPN	AT	DB	DBS	LTNG	PCPN	FOG	SMOKE	DUST	HAZE	BLWG		OUST	SIG	WEA
K	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.3	2	.1	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	101
NE	.2	.1	.2	.2	.2	.0	.0	.0	.0	.0	.0	.3	2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35
E	.1	.1	.2	.2	.2	.0	.0	.0	.0	.0	.0	.5	4	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	60
SE	.9	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	1.0	8	.1	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	105
S	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22
SW	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18
W	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	2	.1	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	111
NW	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.5	4	.1	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	128
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	306
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	80
TOT OBS	17	7	4	4	4	0	0	0	0	0	0	0	28	.2	.1	.2	.2	.1	.1	.1	.1	.1	.1	.1	.1	641
TOT PCT	2.0	.8	.5	.5	.5	.0	.0	.0	.0	.0	.0	3.3	28	.8	1.7	2.2	2.2	1.4	1.7	1.7	1.7	1.7	1.7	1.7	1.7	100.0

TABLE 2  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN		RAIN SHWR		ORZL		PRECIPITATION TYPE			HAIL		PCT FREQ		TOTAL		THOR		OTHER WEATHER PHENOMENA					TOTAL DBS			
		SHWR		SHWR	ORZL	FRZG	SNOW	OTHER	FRZN	PCPN		PCPN	AT	DB	DBS	LTNG	PCPN	FOG	SMOKE	DUST	HAZE	BLWG		OUST	SIG	WEA
00003	3.6	.0	.9	.4	.0	.0	.0	.0	.0	.0	.0	4.4	10	2.2	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	225
06009	2.8	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	9	.5	.9	.0	.0	3.3	.0	.0	.0	.0	.0	.0	.0	215
12015	.4	1.2	.8	.0	.0	.0	.0	.0	.0	.0	.0	2.0	6	.0	.0	.0	.0	3.2	.0	.0	.0	.0	.0	.0	.0	251
18021	1.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	4	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	200
TOT	18	7	4	4	4	0	0	0	0	0	0	0	29	1.9	.2	.2	.2	.15	.15	.15	.15	.15	.15	.15	.15	891
PCT	2.0	.8	.4	.4	.4	.0	.0	.0	.0	.0	.0	3.3	29	1.0	.2	.2	.2	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	100.0

JANUARY

PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1908-1971

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.7E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										WIND DIRECTION BY SPEED AND BY HOUR						
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL DIRS	PCT FREQ	MEAN SPD	UV	03	06	09	12	15	18	21
N	1.8	5.8	2.9	.8	.1	.0	124	12.3	9.3	16.9	5.2	16.7	5.1	11.8	1.3	9.4	9.6
NE	.7	2.2	1.0	.0	.0	.0	39	3.9	7.7	3.2	.0	4.9	4.1	4.2	6.6	3.5	3.8
E	.7	4.9	2.0	.3	.0	.0	79	7.8	9.1	2.5	10.9	8.0	12.3	7.4	11.8	6.2	10.6
SE	1.0	6.4	4.6	.9	.0	.0	129	12.8	10.9	14.2	18.5	9.2	13.3	12.6	13.2	12.8	17.3
S	.5	1.2	.7	.1	.0	.0	25	2.5	9.9	2.6	1.1	1.8	.0	3.8	2.6	3.0	1.0
SW	.3	1.2	.5	.0	.0	.0	20	2.0	8.0	2.2	1.1	2.3	2.0	2.3	.0	1.9	1.9
W	1.7	7.7	4.1	.6	.0	.0	142	14.1	9.7	11.8	12.5	13.8	20.4	15.7	15.8	15.2	7.7
NW	2.5	15.3	14.1	3.6	.0	.0	364	36.1	12.4	30.8	44.6	34.8	31.7	36.0	46.1	37.9	44.2
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.4	461	301	64	7	C	85	8.4	.0	12.8	4.3	8.6	6.1	6.3	2.6	10.2	3.8
TOT OBS	17.5	45.6	29.8	6.3	.7	C	1010	100.0	9.8	203	46	198	49	238	38	186	52
TOT PCT	17.5	45.6	29.8	6.3	.7	C	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										WIND DIRECTION BY SPEED AND BY HOUR					
	0-6	7-16	17-27	28-40	41+	TOTAL DIRS	PCT FREQ	MEAN SPD	UV	03	06	09	12	15	18	21
N	5.6	5.1	1.3	.3	.0	124	12.3	9.3	15.3	15.3	14.4	10.3	9.5	9.5	9.5	9.5
NE	1.8	2.0	.1	.0	.0	39	3.9	7.7	2.6	2.6	4.8	4.5	3.6	3.6	3.6	3.6
E	2.9	4.1	.8	.0	.0	79	7.8	9.1	6.5	6.5	9.6	8.0	7.1	7.1	7.1	7.1
SE	3.9	6.4	2.4	.2	.0	129	12.8	10.9	15.0	15.0	10.0	12.7	13.8	13.8	13.8	13.8
S	1.0	1.0	.4	.0	.0	25	2.5	9.9	2.3	2.3	1.4	3.6	2.5	2.5	2.5	2.5
SW	1.0	.9	.1	.0	.0	20	2.0	8.0	1.8	1.8	2.2	2.0	1.9	1.9	1.9	1.9
W	5.4	6.0	2.6	.1	.0	142	14.1	9.7	11.9	11.9	15.1	15.7	13.6	13.6	13.6	13.6
NW	8.5	18.0	8.4	1.0	.2	364	36.1	12.4	33.3	33.3	34.4	37.4	39.3	39.3	39.3	39.3
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.4	440	162	17	2	65	6.4	.0	11.2	11.2	8.1	5.6	5.8	5.8	5.8	5.8
TOT OBS	38.5	43.6	18.0	1.7	.2	1010	100.0	9.8	249	249	247	276	238	238	238	238
TOT PCT	38.5	43.6	18.0	1.7	.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1945-1971  
(OVER-ALL) 1908-1971

JANUARY

AREA 0023 N. E. PERSIAN GULF  
27.3N 51.7E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CAL4	1-3			4-10			11-21			22-33			34-47			48+			MEAN	PCT FREQ	TOTAL OBS
		WIND SPEED (KNOTS)	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS													
0003	11.2	0.4	47.0	6.8	1.2	0	9.5	100.0	249													
0609	8.1	10.5	40.9	4.5	0	11.9	100.0	237														
1215	5.3	10.9	44.6	30.1	8.0	0	10.3	100.0	276													
1821	8.3	6.3	50.4	28.2	5.9	0	9.6	100.0	238													
TOT	83	92	461	301	64	7	9.8	1016														
PCT	8.1	9.1	45.6	29.8	6.3	0.7	0	0														

TABLE 5

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

WIND DIR	PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)								TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-6	7-8	8-6	7-8	8-6		
N	7.2	1.3	2.6	1.1	92	2.6	0	0	92	2.6
NE	1.4	.4	1.1	.1	23	3.2	0	0	23	3.2
E	2.4	.8	2.3	.9	49	3.9	0	0	49	3.9
SE	5.4	1.3	3.8	1.1	85	3.4	0	0	85	3.4
S	1.5	.4	.3	.2	18	2.4	0	0	18	2.4
SW	1.2	.2	.1	.8	17	2.8	0	0	17	2.8
W	10.6	1.6	2.0	1.0	116	2.0	0	0	116	2.0
NW	27.3	4.2	4.9	1.2	285	1.7	0	0	285	1.7
VAR	.0	.0	.0	.0	0	.0	0	0	0	.0
CALM	7.4	.9	.8	.1	70	1.2	0	0	70	1.2
TOT OBS	491	83	137	49	760	2.3	0	0	760	2.3
TOT PCT	64.6	10.9	18.0	6.4	100.0	0	0	0	100.0	0

TABLE 6

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

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION												TOTAL OBS	
	000	149	299	599	600	999	1000	1999	3499	4999	6499	7999		8000+
N	.0	.0	.0	.1	.4	.5	.4	.1	.1	.1	.3	.0	.4	9.7
NE	.0	.0	.0	.0	.2	.2	.1	.1	.1	.0	.0	.0	.3	2.1
E	.0	.0	.0	.0	.5	.4	.3	.6	.6	.0	.1	.1	.1	4.4
SE	.0	.0	.0	.0	.0	.0	.6	.7	.4	.0	.1	.0	.0	8.8
S	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	2.2
SW	.0	.0	.0	.0	.1	.3	.1	.1	.1	.0	.1	.1	.1	1.3
W	.0	.0	.0	.0	.1	.3	.5	.3	.3	.0	.0	.3	.3	13.8
NW	.0	.0	.0	.0	.5	1.1	.7	.7	.1	.1	.3	.9	.9	33.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.3	.0	.1	.0	.1	.0	.0	8.3
TOT OBS	0	0	0	1	14	29	22	18	6	5	23	642	760	
TOT PCT	0	0	0	.1	1.8	3.6	2.9	2.4	.8	.7	3.0	84.5	100.0	

PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1908-1971

JANUARY

AREA 0023 N. E. PERSIAN GULF  
27.3N 51.7E

TABLE 7

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

CEILING (FEET)	>10		>5		>2		VSBY (NH)		>1		>1/2		>1/4		>50%		CR
	OR	AND	OR	AND	OR	AND	OR	AND	OR	AND	OR	AND	OR	AND	OR	AND	
OR >6500	1.6	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
OR >5000	2.1	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
OR >3500	3.8	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
OR >2000	5.9	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3
OR >1000	8.4	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9
OR >600	9.5	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
OR >300	9.5	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
OR >150	9.5	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
OR > 0	9.5	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
TOTAL	75	114	114	114	118	118	118	118	118	118	118	118	118	118	118	118	118

TOTAL NUMBER OF OBS: 793

PCT FREQ NH <5/8: 85.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	CRSCD	TOTAL
48.5	14.4	11.1	6.2	4.4	3.4	4.6	3.7	3.7	0.0	835	835

PERIOD: (PRIMARY) 1940-1971  
(OVER-ALL) 1908-1971

JANUARY

AREA 0023 N. E. PERSIAN GULF  
27.3N 51.7E

TABLE 8

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

VSBY (NM)	PCP ND PCP TOT %	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL CBS
1/2	.0 .0 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	.0 .0 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	.0 .0 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	.0 .0 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	.0 .0 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10+	.0 .0 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT CBS	12.0	4.2	7.2	12.6	2.6	2.1	13.3	36.5	.0	9.4	100.0	840	

PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1908-1971

JANUARY

AREA 0029 N. E. PERSIAN GULF  
27.3N 51.7E

TABLE 9

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

VSBY (MH)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	0-3	.1	.3	.1	.1	.2	.2	.4	.6	.0	.6	.6	2.6
	4-10	1.1	.6	1.0	1.5	.3	.4	1.0	2.5	.0	.0	8.2	11.1
	11-21	.1	.2	.1	1.9	.4	.1	.7	2.2	.0	.0	5.8	8.0
	TOT %	1.4	1.2	1.3	3.9	1.1	.6	2.2	6.2	.0	.6	18.6	23.7
10+	0-3	1.7	.3	.6	1.0	.3	.4	1.2	1.8	.0	7.8	14.7	23.8
	4-10	5.1	1.6	3.0	5.1	.9	.9	7.0	12.6	.0	.0	37.1	58.0
	11-21	2.8	.7	1.6	2.5	.3	.2	3.5	12.0	.0	.0	23.8	37.7
	TOT %	10.1	2.7	6.3	9.1	1.4	1.1	12.1	28.7	.0	7.8	79.4	120.3
TOT OBS												970	
JOY PCT		11.5	3.9	8.1	13.3	2.6	2.0	14.3	35.8	.0	8.6	100.0	



JANUARY

PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1908-1971

AREA 0023 N. E. PERSIAN GULF  
27.3N 51.7E

TABLE 10  
PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	.0	.0	.0	1.0	4.3	3.9	3.4	.0	.5	3.4	16.4	83.6	207
06009	.0	.0	.5	1.5	4.4	3.9	1.5	.0	1.0	2.0	14.7	85.3	204
12015	.0	.0	.0	1.7	3.4	1.7	2.5	1.7	.4	2.5	13.9	86.1	237
18021	.0	.0	.0	2.8	2.2	1.1	1.7	1.1	.6	3.4	12.8	87.2	179
TOT	0	0	1	14	30	22	19	6	5	23	120	707	827
PCT	.0	.0	.1	1.7	3.6	2.7	2.3	.7	.6	2.8	14.5	85.5	100.0

TABLE 11

PERCENT FREQUENCY VS8Y (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
00003	1.0	.0	.0	.5	20.0	78.5	195
06009	.5	.0	.0	1.5	15.2	82.8	198
12015	.0	.0	.0	1.8	17.5	80.7	228
18021	.0	.0	.0	.0	21.5	78.5	172
TOT	3	0	0	8	146	636	793
PCT	.4	.0	.0	1.0	18.4	80.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS8Y (NH) AND/OR CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	1.0	2.6	15.9	81.5	195
06009	.0	.5	3.5	12.6	83.8	198
12015	.0	.0	2.6	12.3	85.1	228
18021	.0	.0	2.9	10.5	86.6	172
TOT	0	3	23	102	638	793
PCT	.0	.4	2.9	12.9	84.2	100.0

JANUARY

PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1908-1971

AREA: 0023 N. E. PERSIAN GULF  
27.3N 51.7E

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100				
80/84	.0	.1	.0	.0	.4	.1	.0	.0	.0	.0	5	.7
75/79	.0	.0	.3	.9	1.0	.6	.1	.0	.0	.0	20	2.9
70/74	.0	.1	1.2	3.4	7.8	8.0	3.8	2.9	.0	.0	185	27.2
65/69	.0	.1	1.0	4.6	12.4	13.4	11.3	3.2	.0	.0	313	48.1
60/64	.0	.0	1.2	3.8	4.6	3.7	3.1	1.5	.0	.0	121	17.8
55/59	.0	.0	.3	1.5	1.0	.3	.1	.0	.0	.0	22	3.2
50/54	.0	.0	.0	.1	1.0	.3	.0	.0	.0	.0	10	1.5
45/49	.0	.0	.0	.0	.1	.3	.0	.0	.0	.0	3	.4
TOTAL	.0	.3	2.7	9.7	19.3	18.1	12.6	5.2	.0	.0	679	100.0
PCT	.0	.4	4.0	14.3	28.4	26.7	18.6	7.7				

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP												
	N	NE	E	SE	S	SW	W	W	PM	VAR	CALN	TOTAL OBS
80/84	.1	.0	.1	.0	.0	.0	.1	.0	.3	.0	.0	.0
75/79	.1	.0	.4	.6	.1	.0	.7	.0	.7	.0	.0	.1
70/74	3.1	1.5	2.8	5.8	.9	.7	3.1	.0	1.2	.0	.0	2.5
65/69	2.5	1.5	2.9	5.0	.6	.3	7.0	.0	2.2	.0	.0	4.1
60/64	1.9	1.3	.4	.7	.1	.8	3.2	.0	6.2	.0	.0	1.9
55/59	1.0	.0	.1	.1	.0	.0	.5	.0	1.4	.0	.0	.0
50/54	.5	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0
45/49	.3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
TOTAL	8.5	2.9	4.6	8.3	1.4	1.2	10.4	.0	24.4	.0	.0	59
PCT	12.6	4.3	6.8	12.3	2.1	1.8	15.4	.0	38.0	.0	.0	8.7

TABLE 15

HOUR (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR									
	MAX	99%	95%	50%	5%	1%	MIN	NEAN	TOTAL OBS	
06003	77	74	72	66	57	50	45	65.7	261	
06009	84	73	74	67	59	54	48	67.1	257	
12015	84	81	77	69	58	45	44	68.6	287	
18021	79	75	72	67	57	47	44	66.2	244	
TOT	84	78	74	68	58	49	44	66.9	1049	

TABLE 16

HOUR (GMT)	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR									
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	NEAN	TOTAL OBS
06003	.0	8.4	21.8	36.3	25.1	8.4	75	179		
06009	.0	22.1	25.7	28.2	16.9	8.2	70	172		
12015	.0	30.0	34.0	19.7	13.3	3.0	67	203		
18021	.0	12.3	32.7	24.1	19.8	11.1	72	162		
TOT	0	134	207	189	133	53	71	716		

PERIOD: (PRIMARY) 1948-1971  
 (OVER-ALL) 1908-1971

JANUARY

AREA 0023 N. E. PERSIAN GULF  
 27.5N 51.7E

TABLE 17  
 PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
 VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TAP OIF	41	45	49	53	57	61	65	69	73	77	81	TOT	%	WD FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	1	.0	.1
9/10	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	5	.0	.7
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	6	.0	.9
6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	2	.0	.3
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	3	.0	.4
4	.0	.0	.0	.0	.0	.0	.3	.1	.3	.1	.0	6	.0	.9
3	.0	.0	.0	.0	.0	.1	.4	.6	.9	.3	.0	16	.0	2.3
2	.0	.0	.0	.0	.0	.1	.3	1.3	1.3	.1	.0	22	.0	3.2
1	.0	.0	.0	.0	.0	.4	.7	2.2	1.5	.0	.0	30	.0	4.4
0	.0	.0	.0	.0	.1	.4	.9	3.5	2.5	.0	.0	51	.0	7.5
-1	.0	.0	.0	.0	.0	.6	2.6	5.0	1.8	.0	.0	68	.0	9.9
-2	.0	.0	.0	.0	.0	.4	2.8	5.6	.4	.0	.0	63	.0	9.2
-3	.0	.0	.0	.0	.1	.4	2.9	3.8	.7	.0	.0	62	.0	9.1
-4	.0	.0	.0	.0	.0	1.2	3.1	3.4	.0	.0	.0	66	.0	9.6
-5	.0	.0	.0	.0	.4	1.2	6.3	2.9	.0	.0	.0	71	.0	10.4
-6	.0	.0	.0	.0	.7	1.8	3.9	.9	.0	.0	.0	50	.0	7.3
-7/-8	.0	.0	.0	.3	1.5	3.8	4.7	.9	.0	.0	.0	76	.0	11.1
-9/-10	.0	.0	.0	.1	.6	2.9	2.2	.1	.0	.0	.0	41	.1	5.8
-11/-12	.0	.0	.1	.3	1.3	1.3	.1	.1	.0	.0	.0	23	.0	3.4
-13/-14	.0	.0	.4	.3	1.0	.6	.0	.0	.0	.0	.0	16	.0	2.3
-17/-19	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.4
-20/-22	.0	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.4
TOTAL	1	2	7	7	40	102	236	206	65	13	5	684	1	683
PCT	.1	.3	1.0	1.0	5.8	14.9	34.5	30.1	9.5	1.9	.7	100.0	.1	97.9

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1/71

JANUARY  
TABLE 18

AREA 0023 N. E. PERSIAN GULF  
27.3N 51.7E

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

HGT	N					NE					48+	PCT	
	1-3	4-10	11-21	22-33	34-47	1-3	4-10	11-21	22-33	34-47			
1-3	1.3	1.9	4.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
4-10	1.3	1.9	4.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
11-21	1.3	1.9	4.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
22-33	1.3	1.9	4.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
34-47	1.3	1.9	4.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
48+	1.3	1.9	4.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
PCT	1.3	1.9	4.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
TOT PCT	2.1	7.6	5.1	1.9	1.9	1.9	2.5	1.8	1.0	1.0	1.0	1.0	3.4

HGT	E					SE					48+	PCT	
	1-3	4-10	11-21	22-33	34-47	1-3	4-10	11-21	22-33	34-47			
1-3	1.3	3.0	1.5	1.5	1.5	1.3	2.5	1.3	1.3	1.3	1.3	1.3	1.3
4-10	1.3	3.0	1.5	1.5	1.5	1.3	2.5	1.3	1.3	1.3	1.3	1.3	1.3
11-21	1.3	3.0	1.5	1.5	1.5	1.3	2.5	1.3	1.3	1.3	1.3	1.3	1.3
22-33	1.3	3.0	1.5	1.5	1.5	1.3	2.5	1.3	1.3	1.3	1.3	1.3	1.3
34-47	1.3	3.0	1.5	1.5	1.5	1.3	2.5	1.3	1.3	1.3	1.3	1.3	1.3
48+	1.3	3.0	1.5	1.5	1.5	1.3	2.5	1.3	1.3	1.3	1.3	1.3	1.3
PCT	1.3	3.0	1.5	1.5	1.5	1.3	2.5	1.3	1.3	1.3	1.3	1.3	1.3
TOT PCT	1.0	4.5	1.3	1.6	1.6	1.6	7.0	5.7	1.2	1.0	1.0	1.0	12.6

JANUARY  
TABLE 18

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

AREA 0023 N. E. PERSIAN GULF  
27.3N 51.7E

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

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

HGT	M					NW					PCT		
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21		22-33	34-47
<1	.0	2.7	.0	.0	.0	.0	2.7	.0	2.3	.0	.0	.0	.0
1-2	.0	2.3	.6	.0	.0	.0	3.8	.0	8.1	.0	.0	.0	.0
3-4	.0	1.9	.8	.6	.0	.0	3.2	.0	3.4	11.2	4.0	.0	.0
5-6	.0	.8	1.5	.0	.0	.0	2.3	.0	1.9	6.8	.2	.0	.0
7	.0	.0	.8	.0	.0	.0	.8	.0	.0	1.5	1.2	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	7.4	3.6	.6	.0	.0	11.7	.0	.8	15.7	21.6	7.4	46.2





FEBRUARY

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

PERIOD: (PRIMARY) 1948-1971  
(ALL) 1864-1971

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.8	4.3	3.6	.6	.0	.0	97	9.2	11.3	10.4	2.1	14.7	5.6	6.6	15.0	8.1	3.8
NE	.8	2.6	.6	.1	.0	.0	44	4.2	8.2	3.6	8.8	4.3	5.6	3.3	3.3	4.8	5.8
E	1.1	3.9	1.9	.2	.0	.0	76	7.2	9.0	8.0	18.8	5.0	5.6	7.1	5.0	10.2	7.7
SE	1.6	7.1	5.8	.4	.0	.0	155	14.7	10.4	12.2	18.8	16.1	31.5	11.8	16.7	10.7	21.2
S	.9	3.0	.5	.0	.0	.0	36	3.5	7.1	2.2	.0	2.7	9.3	4.3	1.7	4.7	.0
SW	.1	1.2	.4	.0	.0	.0	27	2.6	7.7	2.3	.0	1.0	.0	.0	.0	2.5	7.7
W	.1	6.0	2.1	1.7	.0	.0	125	11.9	11.2	13.1	9.4	11.7	8.3	12.1	20.0	10.7	11.5
NW	1.7	15.2	19.5	3.0	.1	.0	427	40.4	13.0	38.6	38.5	39.5	28.7	45.4	35.0	41.6	40.4
VAR	.0	.0	.0	.0	.0	.0	66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.2	4.7	37.4	7.6	3	.0	1057	6.2	10.6	22.9	4.2	4.5	5.6	5.3	3.3	6.8	1.9
TOT OBS	157	447	374	7.2	.3	.0	1057	100.0	10.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
TOT PCT	14.9	42.3	35.4	7.2	.3	.0	1057	100.0	10.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)						41+	TOTAL OBS	PCT FREQ	MEAN SPO	HOUR (GMT)						
	0-6	7-16	17-27	28-40	41+	TOTAL OBS					00	03	06	09	12	15	18
N	2.6	4.8	1.5	.3	.0	.0	97	9.2	11.3	9.6	12.7	7.5	7.5	7.3			
NE	2.5	1.3	.3	.2	.0	.0	44	4.2	8.2	4.1	4.6	3.9	3.9	5.0			
E	3.3	3.1	.5	.2	.0	.0	76	7.2	9.0	9.0	5.2	5.1	9.7	9.7			
SE	4.8	7.3	2.3	.3	.0	.0	155	14.7	10.4	12.8	19.4	14.1	12.7	12.7			
S	1.7	1.8	.8	.0	.0	.0	36	3.5	7.1	2.0	4.1	4.0	3.8	3.8			
SW	1.5	.9	.2	.0	.0	.0	27	2.6	7.7	2.1	.8	3.7	3.3	3.3			
W	4.2	4.9	2.3	.4	.0	.0	125	11.9	11.2	12.7	11.0	13.0	10.9	10.9			
NW	7.5	20.4	11.7	.9	.0	.0	427	40.4	13.0	38.6	37.3	44.3	41.2	41.2			
VAR	.0	.0	.0	.0	.0	.0	66	.0	.0	.0	.0	.0	.0	.0			
CALM	6.2	470	203	24	0	0	66	6.2	10.6	9.1	5.1	5.1	5.9	5.9			
TOT OBS	363	44.5	18.9	2.3	0	0	1057	100.0	10.6	253	257	276	271	271			
TOT PCT	34.3	44.5	18.9	2.3	0	0	1057	100.0	10.6	100.0	100.0	100.0	100.0	100.0			



PERIOD (PRIMARY) 1948-1971  
(OVER-ALL) 1864-1971

FEBRUARY

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)				TOTAL OBS
		1-3	4-10	11-21	22-33	
0003	9.1	7.9	40.7	36.0	6.3	253
0609	5.1	12.5	40.9	35.0	.4	257
1215	5.1	6.5	42.4	35.5	.7	276
1821	5.9	7.7	45.0	35.1	.0	271
TOT	56	91	547	374	3	1057
PCT	6.2	8.6	42.3	35.4	.3	100.0

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

48+	MEAN	PCT FREQ	TOTAL OBS
.0	10.2	100.0	253
.0	10.3	100.0	257
.0	11.5	100.0	276
.0	10.4	100.0	271
.0	10.6	100.0	1057

TABLE 5

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

WIND DIR	TOTAL CLOUD AMOUNT (EIGHTHS)								TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-6	DBSCO	DBSCO	DBSCO	DBSCO		
N	5.7	1.2	1.1	1.2	1.2	75	2.4			
NE	1.7	.6	.7	.7	.7	29	3.6			
E	2.7	.8	1.2	1.0	1.0	46	3.4			
SE	5.3	2.3	2.6	3.0	3.0	106	3.9			
S	.8	.3	1.4	.6	.2	24	4.7			
SW	1.5	.7	.4	.2	.2	17	2.6			
W	9.7	1.1	1.4	.6	.6	102	1.6			
NW	32.5	3.7	4.4	3.0	3.0	351	1.7			
VAR	.0	.0	.0	.0	.0	0	.0			
CALM	5.3	.1	1.0	.2	.2	54	1.3			
TOT OBS	526	83	114	84	84	807	2.3			
TOT PCT	65.2	10.3	14.1	10.4	10.4	100.0				

TABLE 6

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

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH > 4/8										TOTAL OBS			
	000	149	150	299	300	599	600	999	1000	1999				
N	.0	.0	.0	.0	.1	.1	.1	.1	.5	.2	.1	.0	.2	7.8
NE	.0	.0	.0	.0	.0	.0	.0	.0	.3	.2	.0	.0	.1	3.0
E	.0	.0	.0	.0	.0	.0	.1	.4	.4	.4	.0	.4	.3	4.1
SE	.0	.0	.0	.0	.0	.0	.4	.4	.4	.2	.2	.1	.2	10.3
S	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	.1	.0	.0	2.2
SW	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	1.5
W	.0	.0	.0	.0	.0	.0	.1	.1	.2	.4	.2	.0	.3	11.3
NW	.0	.0	.0	.0	.0	.0	.2	1.3	1.3	.8	.8	.0	.8	39.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.1	.1	.0	.0	.0	.0	.0	.4	.4	.1	.0	.0	.1	5.7
TOT OBS	3	3	0	0	1	1	18	30	30	29	15	5	24	687
TOT PCT	.4	.4	.0	.0	.1	1.0	3.7	3.6	3.6	1.9	.6	.6	3.0	87.1

PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1864-1971

FEBRUARY

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.9E

TABLE 7

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

CEILING (FEET)	OR		OR		OR		OR		OR		OR	
	>10	>5	>2	>1	>1/2	>1/4	>50Y0	>0	>10	>5	>2	>1
OR >6500	2.6	3.7	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
OR >5000	2.9	4.1	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
OR >2500	4.2	6.0	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
OR >2000	7.5	9.6	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
OR >1000	9.8	13.0	13.7	13.7	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8
OR >600	10.2	13.7	14.6	14.6	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
OR >300	10.3	13.8	14.8	14.8	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
OR >150	10.3	13.8	14.8	14.8	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
OR > 0	10.3	13.8	14.9	14.9	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
TOTAL	86	115	124	124	125	125	125	125	127	127	127	127

TOTAL NUMBER OF OBS: 833 PCT FREQ NH <5/8: 84.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	06500	TOTAL
58.0	9.9	7.4	5.1	4.0	3.0	2.0	1.0	0.2	0.1	0.1	880

PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1864-1971

FEBRUARY

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 8

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

VSBY (INH)	PCP NO PCP TOT %	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	.0 .0 .0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1
1/2<1	.0 .0 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
1<2	.0 .0 .0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
2<3	.1 .1 .3	.2	.0	.1	.1	.2	.1	.0	.0	.0	.0	.0	.3
3<4	.1 .1 .3	.2	.0	.1	.1	.2	.1	.0	.0	.0	.0	.0	.3
4<5	.1 .1 .3	.2	.0	.1	.1	.2	.1	.0	.0	.0	.0	.0	.3
5<10	.3 1.7 2.0	.3	.0	.1	.3	.1	.0	.0	.0	.0	.0	.0	.9
10+	.1 7.4 7.5	.1	.1	.3	.1	.0	.0	.0	.0	.0	.0	.0	1.2
TOT OBS		9.8	3.7	6.0	13.1	3.2	2.3	12.3	43.2	.0	6.6	100.0	884
TOT PCT													

PERIOD: (PRIMARY) 1968-1971  
(OVER-ALL) 1864-1971

FEBRUARY

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 9  
PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1
	TOT %	.0	.0	.0	.1	.0	.1	.0	.0	.0	.1	.3	.3
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1
1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	.2
	TOT %	.0	.0	.0	.1	.1	.0	.0	.2	.0	.0	.3	.3
2/5	0-3	.0	.0	.2	.0	.0	.1	.0	.1	.0	.1	.3	.3
	4-10	.1	.0	.2	.2	.1	.1	.2	.1	.0	.0	.9	.9
	11-21	.1	.0	.2	.1	.1	.1	.2	.3	.0	.0	1.2	1.2
	TOT %	.2	.0	.5	.3	.2	.2	.4	.7	.0	.1	2.7	2.7
5<10	0-3	.1	.2	.2	.5	.2	.1	.1	.2	.0	.7	2.4	2.4
	4-10	.7	.3	.4	.7	.2	.3	.8	1.2	.0	.0	3.2	3.2
	11-21	1.0	.1	.2	1.1	.0	.0	.6	2.4	.0	.0	5.3	5.3
	TOT %	1.8	.6	.9	2.4	.4	.4	1.8	5.1	.0	.7	14.0	14.0
10+	0-3	.6	.4	.6	.7	.6	.3	1.0	1.4	.0	3.3	11.0	11.0
	4-10	2.6	2.2	3.1	6.2	1.6	.7	3.4	14.0	.0	.0	36.7	36.7
	11-21	2.6	.4	1.4	4.5	.5	.3	2.6	17.0	.0	.0	29.3	29.3
	TOT %	7.5	3.0	5.2	11.3	2.6	1.5	10.2	36.0	.0	3.3	82.6	82.6
TOT OBS		9.5	3.6	6.5	14.3	3.2	2.1	12.4	42.0	.0	6.2	100.0	977

FEBRUARY

AREA: 0023 N. E. PERSIAN GULF  
27.2N 51.0E

PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1854-1971

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
00003	.5	.0	.5	.0	3.7	3.7	2.3	.5	.5	3.7	15.1	84.9	218
06009	.5	.0	.0	1.5	2.9	3.4	1.5	.5	1.5	3.4	15.2	84.8	204
12015	.4	.0	.0	1.3	3.8	3.8	2.5	.8	.4	2.3	16.3	83.7	239
18021	.0	.0	.0	1.0	3.8	3.3	1.0	.5	.0	2.4	12.0	88.0	209
TOT	.3	.0	.1	.8	3.1	3.1	1.6	.5	.5	.28	128	74.2	870
PCT	.3	.0	.1	.9	3.6	3.6	1.8	.6	.6	3.2	14.7	85.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.5	.5	.0	1.0	10.8	87.3	204
06009	.0	.0	.6	3.0	12.1	84.9	199
12015	.4	.0	.0	1.8	12.7	85.1	228
18021	.0	.0	.0	3.0	10.4	86.6	202
TOT	.2	.1	.0	1.8	9.6	71.6	833
PCT	.2	.1	.0	2.2	11.5	86.0	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<500 <1	1.5	2.5	14.2	83.3	TOTAL OBS
00003	.5	1.5	2.5	14.2	83.3	204	
06009	.5	.5	4.5	12.1	83.4	199	
12015	.4	.4	3.1	14.9	82.0	228	
18021	.0	.0	3.5	10.4	86.1	202	
TOT	.3	.5	2.8	16.8	69.7	833	
PCT	.4	.6	3.4	13.0	83.7	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1948-1971  
(COVER-ALL) 1856-1971

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	VAR			
60/64	.0	.0	.3	.1	.7	.1	.0	.0			9	1.3
75/79	.0	.0	.1	.3	1.3	.6	.6	.0			20	2.9
70/74	.0	.0	.1	1.7	4.4	7.6	5.7	4.1			170	23.8
65/69	.0	.0	.4	6.0	11.8	13.0	10.4	6.2			341	47.8
60/64	.0	.0	.3	4.1	8.9	5.2	1.7	.0			171	23.9
55/59	.0	.0	.0	.0	.1	.3	.0	.0			3	.4
TOTAL	.0	.0	.9	87	193	191	149	85			714	100.0
PCT	.0	.0	1.3	12.2	27.0	26.8	20.9	11.9				

TABLE 14

TEMP F	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	VAR			
60/64	.1	.0	.0	.1	.1	.0	.0	.0	.2	.5	.0	.3
75/79	.2	.0	.1	.5	.0	.0	.0	.0	.3	1.2	.0	.6
70/74	1.2	1.3	2.2	4.6	.8	.7	.0	.0	3.8	6.9	.0	2.4
65/69	3.7	1.5	3.0	6.8	1.8	.0	.0	.0	6.9	19.7	.0	3.5
60/64	3.3	.9	.9	.9	.5	.5	.0	.0	2.1	15.1	.0	.7
55/59	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0
TOTAL	61	25	41	89	22	14	95	311	95	311	0	53
PCT	8.6	3.6	5.8	12.5	2.2	2.0	13.4	43.6	.0	7.8	.0	7.8

TABLE 15

HOUR (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEC F) BY HOUR										TOTAL OBS
	MAX	99%	95%	50%	5%	1%	MIN	MEAN	VAR		
00203	85	73	71	66	61	58	58	66.2			259
06009	83	80	75	66	62	60	58	68.6			258
12015	84	82	78	69	62	61	60	69.1			274
18021	75	73	72	66	61	60	59	66.5			275
TOT	85	80	75	67	61	60	58	67.6			1066

TABLE 16

HOUR (GMT)	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL OBS
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	VAR	
00203	.0	8.4	24.1	24.1	24.6	25.1	17.8	76			191
06009	.0	15.6	27.7	26.0	22.5	6.1	72	173			173
12015	.0	19.0	31.1	26.2	15.9	7.7	70	195			195
18021	.0	10.1	25.0	29.3	21.3	14.4	75	188			188
TOT	0	99	202	198	158	90	73	747			747

PERIOD (PRIMARY) 1948-1971  
(OVER-ALL) 1864-1971

FEBRUARY

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 17

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

AIR-SEA TMP OIF	57	61	65	69	73	77	81	TOT	W PDC	NO FOG
9/10	.0	.0	.0	.0	.1	.0	.3	3	.0	.4
7/8	.0	.0	.0	.0	.0	.7	.1	6	.0	.8
6	.0	.0	.3	.4	.0	.0	.0	5	.0	.7
5	.0	.0	.0	.8	.4	.4	.1	10	.0	1.4
4	.0	.0	.4	.5	.5	.1	.0	12	.0	1.6
3	.0	.1	.4	.5	.9	.3	.0	17	.0	2.3
2	.0	.3	.9	3.7	.4	.0	.0	39	.0	5.3
1	.0	.5	1.2	3.1	1.2	.1	.0	46	.0	6.2
0	.0	1.1	2.7	6.5	.8	.0	.0	82	.0	11.1
-1	.1	2.0	3.8	5.3	1.1	.0	.0	91	.0	12.3
-2	.1	3.0	4.2	4.3	.1	.0	.0	87	.0	11.8
-3	.3	2.3	5.3	3.4	.0	.0	.0	83	.0	11.3
-4	.1	2.6	6.5	1.5	.1	.0	.0	30	.0	10.9
-5	.1	2.0	4.9	.5	.0	.0	.0	36	.1	7.5
-6	.1	3.0	3.4	.8	.3	.0	.0	56	.0	7.6
-7/-8	.5	2.8	2.0	.0	.0	.0	.0	40	.0	5.4
-9/-10	.3	1.9	.5	.0	.0	.0	.0	20	.0	2.7
-11/-13	.4	.1	.0	.0	.0	.0	.0	4	.0	.5
TOTAL	16	161	268	225	51	12	4	737	.1	736
PCT	2.2	21.8	36.4	30.5	6.9	1.6	.5	100.0	.1	99.9

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 TABLE 18  
 AREA 0023 N. E. PERSIAN GULF  
 27.2N 51.9E

PERIODS (PRIMARY)  
 (OVER-ALL) 1963-1971

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

HGT	N				NE				PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	48+	
<1	.0	.4	.0	.0	.0	.0	.0	.0	.0
1-2	.9	3.5	1.5	.0	.0	.0	.0	.0	1.2
3-4	.0	.4	1.9	.0	.0	.0	.0	.0	.0
5-6	.0	.5	.9	.0	.0	.0	.0	.0	.0
7	.0	.0	.5	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-2	.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	.9	4.8	3.7	.0	.0	.0	.0	.0	1.2

HGT	E				SE				PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	48+	
<1	.0	.5	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.7	1.1	.0	.0	.0	.0	.0	7.9
3-4	.0	.5	.9	.0	.0	.0	.0	.0	4.0
5-6	.0	.0	.5	.0	.0	.0	.0	.0	2.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.7	2.4	.0	.0	.0	.0	.0	15.6



FEBRUARY  
TABLE 18  
AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

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

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

HGT	S					PCT	48+	34-47	22-33	11-21	4-10	1-3	PCT	48+	34-47	22-33	11-21	4-10	1-3	PCT	
	1-3	4-10	11-21	22-33	34-47																
<1	2.0	1.4	.4	.0	.0	2.7	.0	.0	.0	.1	.5	.0	.0	.0	.0	.0	.0	.0	.5	.0	.6
1-2	.0	1.6	.0	.0	.0	1.6	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
3-4	.0	.5	.0	.0	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.0	2.4	.4	.0	.0	4.8	.0	.0	.0	.7	.5	.0	.0	.0	.0	.1	.0	.0	.5	.0	1.3

HGT	W					PCT	48+	34-47	22-33	11-21	4-10	1-3	PCT	48+	34-47	22-33	11-21	4-10	1-3	PCT	
	1-3	4-10	11-21	22-33	34-47																
<1	1.5	1.3	.0	.0	.0	2.8	.0	.0	.0	2.1	1.0	.0	.0	.0	.0	.0	.0	2.1	.0	.0	3.3
1-2	.0	2.8	.4	.0	.0	3.2	.0	.0	.0	11.2	.1	.0	.0	.0	.0	.0	.0	11.2	.0	.0	17.3
3-4	.0	1.2	1.3	.0	.0	2.6	.0	.0	.0	7.2	.0	.0	.0	.0	.0	.0	.0	7.2	.0	.0	17.2
5-6	.0	.5	.9	.7	.0	2.1	.0	.0	.0	10.0	.0	.0	.0	.0	.0	.0	.0	10.0	.0	.0	10.6
7	.0	.0	.4	.0	.0	.4	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	3.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	5.9	2.9	.7	.0	11.0	.0	.0	.0	20.5	1.1	.0	.0	.0	.0	5.5	25.1	20.5	.0	.0	52.7





AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

MARCH

PERIOD: (PRIMARY) 1842-1971  
(OVER-ALL) 1870-1971

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)						
	0-5	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPO	00	03	06	09	12	15	18	21
N	1.3	4.2	2.9	.7	.0	.0	107	9.0	10.1	11.0	20.2	10.7	8.1	4.7	6.6	9.2	13.4
NE	.5	1.7	.5	.0	.0	.0	31	2.7	7.1	4.7	.0	2.3	5.9	1.6	1.3	2.5	.9
E	1.0	3.6	1.8	.2	.0	.0	78	6.6	8.8	5.6	7.7	6.9	7.4	4.8	6.5	7.2	15.2
SE	1.6	5.5	2.8	.3	.0	.0	123	10.4	9.1	6.1	9.6	9.5	8.1	16.1	10.5	9.1	11.6
S	.7	2.3	.5	.1	.0	.0	42	3.6	7.3	1.9	5.8	2.1	4.4	4.8	6.6	4.2	3.6
SW	.3	2.1	.5	.3	.0	.0	37	3.1	9.4	3.4	9.6	3.7	6.6	2.3	2.0	3.2	.9
W	2.6	7.0	5.9	1.1	.0	.0	196	16.6	10.3	16.7	11.5	15.1	14.3	18.6	17.8	17.2	14.3
NW	3.1	13.7	17.3	5.0	.1	.0	471	39.7	13.1	38.2	31.7	41.6	37.9	42.0	43.4	39.7	29.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.3	474	382	97	3	0	98	8.3	10.1	12.4	3.8	9.1	7.4	5.2	5.3	7.8	10.7
TOT OBS	230	40.0	32.2	8.2	.3	.0	1186	100.0	10.1	225	26	242	68	288	38	243	56
TOT PCT	19.4	40.0	32.2	8.2	.3	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)					
	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPO	00	03	06	09	12	15	18	21
N	3.5	4.1	1.4	.1	.0	107	9.0	10.1	12.0	10.2	4.9	9.9	4.9	9.9	9.9	9.9
NE	1.5	1.1	.1	.0	.0	171	2.7	7.1	4.2	3.1	1.3	2.2	1.3	2.2	2.2	2.2
E	2.9	3.1	.5	.*	.0	78	6.6	8.8	5.8	7.0	5.0	8.7	5.0	8.7	8.7	8.7
SE	4.6	4.8	.8	.3	.0	123	10.4	9.1	6.5	9.2	13.4	9.5	13.4	9.5	9.5	9.5
S	2.0	1.2	.3	.*	.0	42	3.6	7.3	2.3	2.6	5.0	4.1	5.0	4.1	4.1	4.1
SW	1.2	1.7	.2	.1	.0	37	3.1	9.4	4.1	5.5	2.3	3.8	2.3	3.8	3.8	3.8
W	5.8	8.1	2.6	.2	.0	196	16.6	10.3	16.1	14.9	18.5	14.6	18.5	14.6	14.6	14.6
NW	7.8	19.1	12.1	.8	.0	471	39.7	13.1	37.5	40.8	42.2	37.8	42.2	37.8	37.8	37.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.3	512	212	18	0	98	8.3	10.1	11.6	8.7	5.2	8.4	5.2	8.4	8.4	8.4
TOT OBS	144	43.2	17.6	1.5	.0	1186	100.0	10.1	251	31.0	32.4	299	31.0	32.4	299	299
TOT PCT	37.4	43.2	17.6	1.5	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1942-1971  
(OVER-ALL) 1870-1971

MARCH

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)				TOTAL OBS
		1-3	4-10	11-21	22-33	
0003	11.6	11.2	43.8	25.9	7.6	251
0609	8.7	12.3	34.2	35.8	9.0	310
1215	5.2	9.2	42.0	34.0	8.9	326
1821	8.4	12.0	40.5	31.8	7.0	399
TOT	98	132	474	382	97	1186
PCT	8.3	11.1	40.0	32.2	8.2	100.0

TABLE 5

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

WIND DIR	PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)							TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-10	11-15	16-20	21-24		
N	5.3	6.6	1.1	1.3	2.5	1.9	68	2.5	
NE	1.0	4.4	3.3	5.5	3.2	4.0	18	3.2	
E	2.1	8.8	2.4	9.9	4.0	4.0	51	4.0	
SE	4.7	14.4	3.3	15.5	3.6	3.6	89	3.6	
S	1.3	4.4	1.2	3.3	3.8	3.1	26	3.1	
SW	1.7	3.3	3.3	7.7	3.1	2.2	25	3.1	
W	10.9	23.5	2.1	16.6	2.2	1.9	139	2.2	
NW	29.1	33.5	6.4	26.2	1.9	1.9	338	1.9	
VAR	0	0	0	0	0	0	0	0	
CALM	5.6	7.7	1.3	1.1	1.6	1.6	64	1.6	
TOT OBS	507	88	151	75	821	2.4	821	2.4	
TOT PCT	61.8	10.7	18.4	9.1	100.0				

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8  
<NO OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8								TOTAL OBS
	0-2	3-4	5-7	8-10	11-15	16-20	21-24	25-30	
N	0	0	0	0	0	0	0	0	68
NE	0	0	0	0	0	0	0	0	18
E	0	0	0	0	0	0	0	0	51
SE	0	0	0	0	0	0	0	0	89
S	0	0	0	0	0	0	0	0	26
SW	0	0	0	0	0	0	0	0	25
W	0	0	0	0	0	0	0	0	139
NW	0	0	0	0	0	0	0	0	338
CALM	0	0	0	0	0	0	0	0	64
TOT OBS	507	88	151	75	821	2.4	821	2.4	821
TOT PCT	61.8	10.7	18.4	9.1	100.0				100.0



PERIOD: (PRIMARY) 1942-1971  
(OVER-ALL) 1870-1971

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AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE B

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

VSBY (NM)	PCP ND PCP TOT %	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS										
														0	.1	.2	.3	.4	.5	.6	.7	.8	.9
<1/2	PCP ND PCP TOT %	.0 .0 .0	.0 .0 .0	.0 .1 .1	.0 .1 .1	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .1 .1	.0 .0 .0	.0 .0 .0	.0 .0 .1	.0 .0 .4										
1/2<1	PCP ND PCP TOT %	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .2 .2	.0 .5 .5	.0 .0 .0	.0 .0 .0	.0 .0 .6	.0 .6 .6										
1<2	PCP ND PCP TOT %	.0 .1 .1	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .4 .4	.0 .7 .7	.0 .0 .0	.0 .0 .0	.0 1.2 1.2	.0 1.2 1.2										
2<5	PCP ND PCP TOT %	.0 .2 .2	.0 .0 .0	.1 .1 .2	.0 .3 .3	.2 .2 .4	.1 .1 .2	.1 .7 .7	.2 2.3 2.5	.0 .0 .0	.0 .0 .2	.0 .6 4.7	.0 .6 4.7										
5<10	PCP ND PCP TOT %	.0 2.2 2.2	.1 .6 .6	.2 .9 1.1	.1 3.8 3.9	.1 .9 1.0	.1 .8 .9	.1 1.8 1.9	.1 8.3 8.4	.0 .0 .0	.0 1.2 1.2	.0 20.5 21.1	.0 20.5 21.1										
10+	PCP ND PCP TOT %	.0 5.9 5.9	.1 1.3 1.3	.0 4.4 4.4	.1 6.8 6.9	.0 1.9 1.9	.0 2.3 2.3	.1 13.6 13.6	.3 29.0 29.2	.0 .0 .0	.0 6.3 6.3	.0 71.4 71.9	.0 71.4 71.9										
TOT OBS	TOT PCT	8.4	2.1	5.8	11.1	3.2	3.4	16.8	41.4	.0	7.8	100.0	948										

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PERIOD: (PRIMARY) 1942-1971  
(OVER-ALL) 1970-1971

TABLE 9

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

WSBY (NV)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL D65
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.2	.1	.0	.0	.0	.1	.0	.0	.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT X	.0	.0	.2	.1	.0	.0	.0	.1	.0	.1	.4	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	
	TOT X	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.3	
	TOT X	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.5	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	.1	.1	.1	.2	.1	.0	.2	.5	
	11-21	.0	.0	.2	.1	.1	.1	.2	.9	.0	.0	.7	
	TOT X	.0	.0	.3	.2	.2	.3	.4	2.1	.0	.2	1.3	
5<10	0-3	.1	.2	.1	.4	.1	.1	.2	.4	.0	1.2	2.9	
	4-10	1.0	.3	.4	1.7	.6	.5	1.0	1.7	.0	7.1	7.1	
	11-21	.5	.0	.6	1.2	.1	.1	.6	3.7	.0	6.8	6.8	
	TOT X	2.0	.5	1.1	3.6	.9	.8	1.6	7.8	.0	15.6	15.6	
10+	0-3	1.1	1.2	.9	1.3	1.4	.2	2.1	2.5	.0	6.6	15.3	
	4-10	3.2	1.0	3.0	4.0	1.6	1.4	2.8	11.8	.0	31.9	31.9	
	11-21	2.7	.3	1.2	1.6	.1	.3	2.0	14.9	.0	23.7	23.7	
	TOT X	6.9	1.6	5.2	7.1	2.2	2.1	13.6	29.0	.0	74.2	74.2	
TOT D65	9.1	2.1	6.7	10.9	3.4	3.1	16.5	40.0	.0	8.1	100.0	1117	



MARJH

TABLE 1C

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/6 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL DBS
06003	.0	.0	.0	1.6	3.1	1.0	1.0	2.6	.5	2.6	12.6	171
06009	.9	.0	.0	1.4	4.5	4.5	1.8	.5	.0	1.4	14.9	222
12015	.4	.0	.0	1.5	4.5	1.1	2.6	1.1	.8	3.4	15.5	265
18021	.0	.0	.0	1.3	2.6	.9	1.3	1.8	.9	2.2	11.0	228
TOT	3	0	0	13	34	17	16	13	5	22	123	906
PCT	.3	.0	.0	1.4	3.8	1.9	1.8	1.4	.6	2.4	13.6	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 DBS
06003	.6	.0	.6	4.0	16.4	78.5	177
06009	.5	.5	.9	5.2	16.0	77.0	213
12015	.0	1.2	.0	4.2	23.6	71.0	259
18021	.0	.0	.0	3.5	14.7	79.7	217
TOT	2	4	3	41	156	660	866
PCT	.2	.5	.3	4.7	18.0	76.2	100.0

TABLE 12

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

HOUR (GMT)	<150 <50VD	<600 <1000 <1	1000+ <5 AN05+	NH <5/8 AND 5+	TOTAL DBS
06003	.0	.6	6.2	10.7	83.1
06009	1.4	1.9	8.3	10.8	80.8
12015	.8	1.2	6.9	12.4	80.7
18021	.0	.0	6.9	9.7	83.4
TOT	5	8	62	95	709
PCT	.6	.9	7.2	11.0	81.9

MARCH

PERIOD: (PRIMARY) 1942-1971  
(OVER-ALL) 1670-1971

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.1	.0	.0	.1	.0	2	.3
80/84	.0	.0	.0	.1	.1	.8	.4	.1	19	2.5
75/79	.0	.0	.5	1.5	2.5	5.3	2.7	1.1	102	13.6
70/74	.0	.0	.7	3.3	8.8	13.6	10.0	5.9	317	42.4
65/69	.0	.0	.9	4.0	9.5	8.7	7.9	4.0	282	35.0
60/64	.0	.0	.1	.9	.9	.7	1.5	.9	46	6.1
TOTAL	.0	.0	1.7	7.4	17.1	22.6	14.9	9.0	748	100.0
PCT	.0	.0	2.3	10.0	23.9	30.2	22.6	12.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1
80/84	.4	.0	.5	.3	.2	.0	.2	.7	.0	.1
75/79	.6	.3	1.4	2.1	.7	.4	2.7	2.1	.0	1.1
70/74	2.4	.8	3.3	5.4	1.5	1.0	8.9	15.2	.0	3.9
65/69	4.6	.6	.8	1.9	.9	1.3	5.0	18.2	.0	1.3
60/64	1.1	.3	.1	.1	.0	.2	.6	3.6	.0	.1
TOTAL	68	17	45	12	25	21	131	305	0	50
PCT	9.2	2.3	6.1	1.6	3.4	2.9	17.5	40.9	.0	6.7

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	75%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	81	79	75	69	63	61	61	60	68.7	258
04009	83	82	79	71	64	61	61	60	71.1	322
12015	87	84	81	72	64	61	61	60	72.3	332
18021	84	80	75	70	64	60	60	60	69.2	314
TOT	87	82	79	70	63	61	61	60	70.4	1326

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	7.3	15.3	32.8	27.7	16.7	78	177		
04009	.0	13.5	23.3	31.6	20.2	11.4	74	193		
12015	.0	19.4	30.0	29.0	15.7	6.0	70	217		
18021	.0	7.1	19.0	29.9	30.3	13.7	77	211		
TOT	0	96	177	245	186	94	74	798		

PERIOD: (PRIMARY) 1942-1971  
(OVER-ALL) 1870-1971

MARCH

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 17

PCT 'REQ OF AIR TEMPERATURE (DSG F) AND THE OCCURRENCE OF 'CG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57	61	65	69	73	77	81	85	TOT	M FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.1	2	.0	.2
11/13	.0	.0	.0	.0	.4	.4	.8	.0	13	.0	1.5
9/10	.0	.0	.0	.0	.6	.6	.1	.1	12	.0	1.4
7/8	.0	.0	.0	.6	1.5	1.5	.5	.0	26	.4	2.7
6	.0	.0	.0	.6	1.1	1.0	.2	.0	34	.0	2.9
5	.0	.0	.1	1.4	1.8	1.2	.5	.0	34	.0	4.0
4	.0	.0	.7	1.5	1.5	1.2	.0	.0	42	.1	4.9
3	.0	.1	.6	1.8	3.0	.8	.1	.0	54	.0	6.4
2	.0	.0	.6	3.6	3.5	.5	.1	.0	70	.1	8.2
1	.0	.4	1.5	4.6	2.6	.4	.0	.0	80	.2	9.3
0	.0	.6	3.1	5.8	2.9	.1	.0	.0	105	.0	12.5
-1	.0	.7	3.3	6.1	2.0	.1	.0	.0	103	.0	12.3
-2	.0	.4	3.7	4.9	.8	.0	.0	.0	82	.0	9.8
-3	.0	.2	4.4	2.7	.5	.0	.0	.0	66	.0	7.9
-4	.1	.0	2.7	1.5	.0	.0	.0	.0	42	.1	4.9
-5	.0	.8	1.9	1.2	.4	.0	.0	.0	36	.0	4.3
-6	.0	.4	1.3	.2	.0	.0	.0	.0	16	.0	1.9
-7/-8	.3	.8	1.8	.2	.0	.0	.0	.0	24	.0	2.9
-9/-10	.4	.6	.0	.1	.0	.0	.0	.0	9	.0	1.1
TOTAL	.4	.47	2.17	3.11	1.72	.66	.21	.2	840	.8	822
PCT	.5	5.6	25.8	37.0	20.5	7.9	2.5	.2	100.0	1.0	99.0

PERIOD: (PRIMARY)  
(OVER-ALL) 1903-1971

MARCH

TABLE 18

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

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

HGT	N					NE					48+	PCT	
	1-3	4-10	11-21	22-33	34-47	1-3	4-10	11-21	22-33	34-47			
<1	.5	.0	.5	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
1-2	.5	.8	.3	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	1.5	.5	.0	1.9	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.2	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.5	.0	.3	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-53	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	.8	3.2	1.7	.0	6.5	.0	.0	.0	.0	.0	.0	.0

HGT	E					SE					48+	PCT	
	1-3	4-10	11-21	22-33	34-47	1-3	4-10	11-21	22-33	34-47			
<1	.5	.9	.0	.0	.0	1.4	1.4	.0	.0	.0	.0	.0	1.8
1-2	.5	.5	.7	.0	.0	1.6	4.5	3.8	.0	.0	.0	.0	8.3
3-4	.5	.5	.0	.0	.0	.9	1.8	.0	.0	.0	.0	.0	1.8
5-5	.0	.0	.0	.0	.0	.0	1.1	1.4	.0	.0	.0	.0	1.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	1.8	1.7	.0	.0	3.8	.5	7.8	5.2	.0	.0	.0	13.4

MARCH  
TABLE 18

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

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

HGT	S					SM					48+	PCT	
	1-3	4-10	11-21	22-33	34-47	1-3	4-10	11-21	22-33	34-47			
<1	.3	.0	.0	.0	.0	.1	1.5	.0	.0	.0	.0	.0	.6
1-2	.0	1.7	.0	.0	.0	.1	1.7	.0	.0	.0	.0	.0	1.8
3-4	.0	.8	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2
5-6	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.8	.0	.0	.0	.2	2.3	.1	.0	.0	.0	.0	2.6

HGT	M					NW					48+	PCT	
	1-3	4-10	11-21	22-33	34-47	1-3	4-10	11-21	22-33	34-47			
<1	.8	1.1	.0	.0	.0	1.0	1.1	.0	.0	.0	.0	.0	2.1
1-2	.3	3.2	1.5	.0	.0	.5	8.0	4.5	.0	.0	.0	.0	13.0
3-4	.0	.9	3.7	.0	.0	.0	.5	11.4	1.8	.0	.0	.0	13.0
5-6	.0	.9	3.6	1.1	.0	.0	.0	17.7	4.3	.0	.0	.0	11.9
7	.0	.0	1.1	1.1	.0	.0	.0	3.4	3.8	.0	.0	.0	7.2
8-9	.0	.0	.0	.0	.0	.0	.0	.9	.5	.0	.0	.0	1.8
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.9
12	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	6.1	9.9	1.3	.0	1.5	9.6	27.6	11.8	.5	.0	.0	51.1

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

MARCH

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 18 (CONT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	15.7	4.7	.4	.0	.0	.0	20.6	
1-2	1.6	17.6	9.4	.0	.0	.0	28.6	
3-4	.4	3.9	14.5	2.0	.0	.0	20.8	
5-6	.0	1.2	11.8	4.7	.0	.0	17.4	
7	.0	.0	3.9	4.7	.0	.0	8.6	
8-9	.0	.0	.8	.8	.4	.0	2.0	
10-11	.0	.0	.0	.8	.0	.0	.8	
12	.0	.0	.0	.8	.0	.0	.8	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-23	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.3	.0	.0	.0	
TOT PCT	17.6	27.5	40.6	13.7	.4	.0	100.0	255

TABLE 19

PERIOD (SEC)	<1	1-2	3-4	5-6	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+ TOTAL	MEAN HGT	
<1	6.4	22.0	19.2	6.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	363
6-7	.0	1.2	4.1	4.1	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	86
8-9	.2	.0	.6	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25
10-11	.0	.2	.0	.5	.5	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDET	16.8	3.6	1.4	.8	.2	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	153
TOTAL	150	173	162	82	54	10	5	2	0	0	0	0	0	0	0	0	0	0	0	641
PCT	23.4	27.0	25.3	12.6	8.4	1.6	.8	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

APRIL  
AREA 0023 N. E. PERSIAN GULF  
27.1N 51.9E

TABLE 1

PERIOD (PRIMARY) 1947-1971  
(OVER-ALL) 1864-1971

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHHR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA						TOTAL OBS
				FRZG	SNOW	OTHER					FRZN PCPN	PCPN	FOG	SMOKE	HAZE	BLNG	
N	.1	.0	.1	.0	.0	.0	.0	.1	1	.3	.0	.8	.8	6.3	70		
NE	.0	.0	.4	.0	.0	.0	.0	.4	2	.1	.0	.1	.2	2.4	22		
E	.1	.1	.0	.0	.0	.0	.0	.2	2	.1	.0	.4	.2	5.4	53		
SE	.1	.0	.0	.0	.0	.0	.0	.1	0	.2	.4	.7	.5	9.5	92		
S	.1	.0	.0	.0	.0	.0	.0	.1	1	.1	.2	.4	.4	3.5	36		
SW	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.1	.1	.0	2.9	25		
W	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	1.5	.0	.5	17.4	163		
NW	.2	.0	.0	.6	.0	.0	.0	.2	1	.7	.2	2.4	1.6	29.9	293		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0		
CALM	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.1	1.1	.0	8.5	81		
TOT OBS	.4	1	2	3	0	0	0	.0	7	12	5	61	34	720	839		
TOT PCT	.5	.1	.2	.0	.0	.0	.0	.8	1.4	1.4	.6	7.3	4.1	85.8	100.0		

TABLE 2  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHHR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA						TOTAL OBS
				FRZG	SNOW	OTHER					FRZN PCPN	PCPN	FOG	SMOKE	HAZE	BLNG	
0803	.5	.5	.5	.0	.0	.0	.0	1.5	3	1.8	.5	6.0	2.8	27.6	217		
0809	.0	.0	.0	.0	.0	.0	.0	.0	0	.4	.9	6.3	4.9	87.5	224		
1245	.9	.0	.0	.0	.0	.0	.0	.9	2	.4	.9	9.1	4.3	83.9	230		
18421	.5	.0	.5	.0	.0	.0	.0	.9	2	2.7	.0	6.3	5.0	85.1	222		
TOT	4	1	2	0	0	0	0	7	7	12	5	62	39	768	893		
PCT	.4	.1	.2	.0	.0	.0	.0	.8	1.3	1.3	.6	5.5	4.4	86.0	100.0		

APRIL

PERIOD: (PRIMARY) 1947-1971  
(OVER-ALL) 1864-1971

AREA 0023 N. E. PERSIAN GULF  
27.1N 51.9E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)						
	0-3	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	3.8	2.2	.7	.0	.0	81	7.9	10.1	10.8	2.9	7.1	8.0	4.7	2.4	10.6	8.1
NE	1.2	1.1	.6	.0	.0	.0	30	3.0	6.3	3.1	7.7	2.2	.0	3.1	.0	3.7	3.5
E	.9	3.8	1.4	.8	.0	.0	63	6.2	7.7	6.6	3.8	9.4	3.0	4.1	2.4	6.3	5.8
SE	1.1	7.0	1.9	.5	.0	.0	113	11.1	8.6	10.1	7.7	9.3	12.5	13.2	4.8	11.4	15.1
S	.8	2.8	.6	.1	.0	.0	44	4.3	7.1	3.0	.0	4.1	4.5	7.0	2.4	3.7	4.7
SW	.6	1.8	.6	.0	.0	.0	30	2.9	7.1	2.6	1.9	2.8	6.0	2.8	9.5	2.9	.0
W	2.2	9.8	6.2	.7	.0	.0	194	19.0	10.0	18.0	23.1	19.4	15.0	23.0	9.5	17.6	12.8
NW	2.9	15.8	14.7	2.5	.0	.0	368	36.0	11.4	32.4	49.0	34.9	47.0	34.6	64.3	35.5	36.0
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.6	475	288	47	1	0	98	9.6	.0	13.4	3.8	11.1	4.0	7.3	4.8	8.2	14.0
TOT OBS	25.7	465.4	288.2	46.6	.1	.0	1023	100.0	8.9	21.7	26	208	50	241	21	217	43
TOT PCT										100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)					
	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.5	4.0	1.2	.1	.0	81	7.9	10.1	10.0	2.9	7.3	4.5	10.2			
NE	1.7	1.3	.0	.0	.0	30	3.0	6.3	3.6	7.7	1.7	2.9	3.7			
E	3.0	3.0	.2	.0	.0	63	6.2	7.7	6.3	9.4	8.1	4.0	6.3			
SE	4.8	5.4	.9	.0	.0	113	11.1	8.6	9.9	9.9	12.5	12.0	12.0			
S	2.7	1.4	.2	.0	.0	44	4.3	7.1	2.7	4.2	6.6	3.8				
SW	1.7	1.1	.1	.0	.0	30	2.9	7.1	1.6	3.4	3.4	2.4				
W	6.2	10.3	2.2	.2	.0	194	19.0	10.0	13.5	18.5	21.9	16.8				
NW	3.6	19.6	6.2	.7	.0	368	36.0	11.4	34.2	37.2	37.0	35.6				
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0				
CALM	9.6	471	1.4	11	0	98	9.6	.0	12.3	9.7	7.3	9.2				
TOT OBS	427	466.0	11.1	11.1	0	1023	100.0	8.9	24.3	258	262	240				
TOT PCT									100.0	100.0	100.0	100.0				



APRIL

PERIOD: (PRIMARY) 1947-1971  
(COVER-ALL) 1864-1971

AREA 00.3 N. E. PERSIAN GULF  
27.1N 51.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
0000	12.3	12.3	45.3	24.7	4.9	.4	.0	8.6	100.0	243
0600	9.7	12.0	49.2	25.2	3.9	.0	.0	8.5	100.0	258
1200	7.3	8.8	46.9	31.7	5.3	.0	.0	9.4	100.0	262
1800	9.2	11.5	44.2	30.8	4.2	.0	.0	9.2	100.0	260
TOT	98	114	475	258	47	1	0	8.9		1023
PCT	9.6	11.1	46.4	28.2	4.6	.1	.0		100.0	

TABLE 5

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

WIND DIR	PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)								TOTAL CLOUD OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-9	10	11-12	13-14	15-16		
N	4.7	1.1	1.4	.9	58	2.4	1.9	1.4	58	2.4
NE	1.6	.2	.5	.4	19	2.5	1.9	1.4	19	2.5
E	3.8	.5	1.1	.9	66	2.7	1.9	1.4	66	2.7
SE	6.3	1.3	1.7	1.0	75	2.4	1.9	1.4	75	2.4
S	2.8	.1	.9	.3	29	2.3	1.9	1.4	29	2.3
SW	2.4	.1	.4	.4	23	1.9	1.9	1.4	23	1.9
W	15.8	1.8	1.8	.7	145	1.7	1.9	1.4	145	1.7
NW	25.1	3.8	4.0	1.5	253	1.7	1.9	1.4	253	1.7
VAR	.0	.0	.0	.0	0	.0	.0	.0	0	.0
CALM	8.1	.4	1.1	.8	76	1.5	1.9	1.4	76	1.5
TOT OBS	515	67	93	33	728	1.9	1.9	1.4	728	1.9
TOT PCT	70.7	9.2	12.8	7.3	100.0					

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH > 478  
AND OCCURRENCE OF NH < 878 BY WIND DIRECTION

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH > 478 AND OCCURRENCE OF NH < 878 BY WIND DIRECTION										TOTAL OBS	ANY HGT OBS
	000	150	300	600	1000	2000	3500	5000	6500	8000+		
N	1.4	.0	.0	.2	.8	.1	.1	.0	.1	.1	58	58
NE	.4	.0	.0	.1	.0	.2	.0	.0	.0	.0	29	29
E	1.9	.0	.0	.0	.4	.5	.1	.0	.1	.0	46	46
SE	1.7	.0	.0	.0	.3	.7	.1	.0	.1	.0	75	75
S	.9	.0	.0	.0	.2	.0	.0	.0	.0	.0	29	29
SW	.4	.0	.0	.0	.1	.0	.0	.0	.0	.0	23	23
W	1.8	.0	.0	.0	.1	.0	.0	.0	.0	.0	145	145
NW	4.0	.0	.0	.2	.8	.4	1.0	.2	.0	.0	253	253
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
CALM	8.1	.0	.0	.0	1.0	.0	.0	.0	.0	.0	76	76
TOT OBS	515	67	93	33	728	1.9	1.9	1.4	1.9	1.4	728	728
TOT PCT	70.7	9.2	12.8	7.3	100.0						100.0	100.0

PERIOD: (PRIMARY) 1947-1971  
(OVER-ALL) 1864-1971

APRIL

AREA 0023 N. E. PERSIAN GULF  
27 JUN 51.9E

TABLE 7

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

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50Y0	>0
DR >6500	1.4	1.8	1.8	1.9	1.9	1.9	1.9	1.9
DR >5000	1.7	2.2	2.4	2.6	2.6	2.6	2.6	2.6
DR >3500	2.8	3.3	3.7	3.9	3.9	3.9	3.9	3.9
DR >2000	3.9	4.1	5.9	6.0	6.0	6.0	6.0	6.0
DR >1000	6.6	3.6	9.4	9.5	9.5	9.5	9.5	9.5
DR >600	7.1	7.3	10.0	10.2	10.2	10.2	10.2	10.2
DR >300	7.1	7.3	10.0	10.2	10.2	10.2	10.2	10.2
DR >150	7.1	7.3	10.0	10.2	10.2	10.2	10.2	10.2
DR > 0	7.2	7.5	10.4	10.5	10.5	10.5	10.5	10.5
TOTAL	56	75	81	82	82	82	82	82

TOTAL NUMBER OF OBS 778

PCT FREQ NH <5/8 89.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS):

C	1	2	3	4	5	6	7	8	TOTAL
70.3	3.0	5.2	2.3	2.5	2.6	3.9	1.8	3.2	.2
									812

PERIOD: (PRIMARY) 1947-1971  
(OVER-ALL) 1864-1971

APK's

AREA 0023 N. E. PERSIAN GULF  
27.1N 51.9E

TABLE 8

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

VSBY (NH)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2-1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.1	.0	.0	.4	.1	.0	.2	.5	.0	.1	1.4	1.4
2-5	.1	.1	.1	.2	.4	.1	.4	1.0	.0	.1	2.6	2.6
5-10	.1	.4	1.7	2.2	.5	.7	3.1	5.8	.0	1.3	19.0	19.0
10+	.0	.2	4.2	8.3	3.2	2.2	16.0	27.4	.0	8.1	77.4	77.4
TOT OBS	8.4	2.7	6.3	11.0	4.4	3.0	19.7	34.9	.0	9.7	100.0	899

PERIOD (PRIMARY) 1947-1971  
 (COVER-ALL) 1864-1971

APRIL

AREA 0023 N. E. PERSIAN GULF  
 27.1N 51.9E

TABLE 9

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

WSBY (M)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
	4-10	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	4-10	.1	.0	.0	.1	.0	.0	.1	.2	.0	.0	.4
	11-21	.0	.0	.0	.1	.0	.0	.1	.2	.0	.0	.3
	22+	.0	.0	.0	.1	.1	.0	.1	.1	.0	.0	.4
TOT %	.1	.0	.0	.3	.1	.1	.2	.5	.5	.0	.1	1.3
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	4-10	.0	.1	.1	.1	.2	.1	.4	.2	.0	.0	1.3
	11-21	.1	.0	.0	.0	.2	.0	.0	.2	.0	.0	.5
	22+	.0	.0	.0	.1	.0	.0	.0	.2	.0	.0	.3
TOT %	.1	.1	.1	.2	.4	.1	.4	.9	.9	.0	.1	2.4
5<10	0-3	.2	.3	.2	.1	.1	.1	.3	.3	.0	1.1	2.8
	4-10	.9	.1	.7	1.0	.4	.3	.8	2.1	.0	6.3	6.3
	11-21	.9	.4	.7	.4	.1	.2	1.5	2.8	.0	6.6	6.6
	22+	.2	.0	.1	.4	.0	.0	.2	.4	.0	1.1	1.1
TOT %	2.2	3.5	1.6	1.9	.5	.6	2.8	5.6	5.6	0	1.1	16.8
10+	0-3	1.1	1.0	.7	1.0	.8	.5	2.0	2.4	.0	8.0	17.4
	4-10	2.6	.9	3.1	6.1	2.1	1.4	8.5	13.2	.0	38.1	38.1
	11-21	1.1	.4	.7	1.4	.3	.0	5.0	12.1	.0	21.5	21.5
	22+	.4	.0	.0	.0	.0	.0	.4	1.4	.0	2.3	2.3
TOT %	5.4	2.4	4.4	8.5	3.2	2.3	16.0	29.0	29.0	.0	8.0	79.3
TOT OBS	7.8	2.9	6.1	10.9	4.2	3.0	19.4	36.2	36.2	.0	9.4	100.0
TOT PCT												958

PERIOD (PRIMARY) 1947-1971  
(OVER-ALL) 1864-1971

TABLE 10

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

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL
00003	.0	.0	.0	1.1	4.3	1.1	2.2	.5	.0	.5	9.7	90.3	186
06009	.0	.0	.0	.5	3.4	2.9	.0	.5	1.0	1.0	11.2	88.8	205
12015	.5	.0	.0	.9	1.4	1.9	.9	.5	.0	1.9	7.9	92.1	214
18021	1.0	.0	.0	.0	2.6	2.6	2.1	1.0	1.0	2.1	12.4	87.6	193
TOT	.3	.0	.0	.5	2.7	7.7	10	5	4	11	82	71.6	798
PCT	.4	.0	.0	.6	3.4	11	13.3	.6	.5	1.4	10.3	89.7	100.0

TABLE 11

PERCENT FREQUENCY VS8Y (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
00003	.0	.0	.0	1.1	12.2	86.7	181
06009	.5	.0	.0	1.5	18.0	80.0	200
12015	.0	.0	1.0	3.9	.6	81.6	206
18021	.0	.0	1.0	1.6	14.1	83.2	191
TOT	.1	.0	.4	16	113	644	778
PCT	.1	.0	.5	2.1	14.5	82.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS8Y (NH) ANO/DR CEILING HGT (FEET) NH >4/8) BY HOUR

HOUR (GMT)	<150	<600	<1000	1000+ AND 5+	NH <5/8 AND 5+	TOTAL
00003	.0	.0	2.2	8.3	89.5	131
06009	.5	.5	2.5	10.5	87.0	200
12015	.5	.5	6.3	5.3	88.3	206
18021	1.0	1.0	3.7	10.5	85.9	191
TOT	4	4	29	67	682	778
PCT	.5	.5	3.7	8.6	87.7	100.0

APRIL

PERIOD: (PRIMARY) 1947-1971  
(OVER-ALL) 1864-1971

AREA 0023 N. E. PERSIAN GULF  
27.1N 51.9E

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
90/94	.0	.0	.0	.7	.0	.1	.0	.0	7	1.0
85/89	.0	.0	.0	.0	.6	1.5	.7	.4	23	3.2
80/84	.0	.0	.1	1.1	5.2	5.5	2.5	1.2	114	15.7
75/79	.0	.0	.4	1.7	7.2	20.2	9.8	3.5	309	42.7
70/74	.0	.0	.1	1.2	5.9	16.6	11.2	5.4	235	32.5
65/69	.0	.0	.0	1.0	1.1	1.0	1.2	.6	35	4.8
TOTAL	.0	.0	.5	.5	153	262	182	77	724	100.0
PCT	.0	.0	.7	6.2	21.1	36.2	25.1	10.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
95/99	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
90/94	.0	.0	.1	.0	.0	.0	.0	.1	.0	.1
85/89	.3	.1	.5	.4	.1	.1	.5	.3	.0	.8
80/84	.6	.5	.9	2.3	.9	.7	3.8	4.0	.0	2.1
75/79	3.6	1.2	3.4	5.7	1.3	1.6	8.6	13.6	.0	3.6
70/74	2.6	.9	1.1	2.9	1.0	.6	6.4	14.4	.0	2.6
65/69	.5	.0	.1	*	.2	.0	.7	3.1	.0	.1
TOTAL	7.8	2.7	6.3	11.4	3.6	2.9	20.5	35.4	.0	9.4

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	82	81	79	74	69	66	66	74.1	259
0600Z	93	88	85	77	71	68	65	77.3	279
1200Z	93	92	91	80	70	69	65	78.3	266
1800Z	85	83	81	74	69	67	66	74.3	264
TOT	95	88	84	76	70	67	65	76.0	1068

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.0	3.2	15.5	28.9	33.2	19.2	79	187		
0600Z	.0	9.7	22.4	39.8	22.4	5.6	74	196		
1200Z	.0	11.2	32.2	36.1	15.6	4.9	71	205		
1800Z	.0	3.5	12.2	39.2	32.0	12.7	78	181		
TOT	0	55	161	277	195	80	75	769		

PERIOD: (PRIMARY) 1947-1971  
(OVER-ALL) 1864-1971

APRIL

AREA 0023 N. E. PERSIAN GULF  
27.1N 51.9E

TABLE 17

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

AIR-SEA TMP DIF	65	69	73	77	81	85	89	93	TOT	M	MO
	66	72	76	80	84	88	92	96	FOG	FOG	FOG
14/16	.0	.0	.0	.0	.0	.3	.1	.1	4	.0	.5
11/13	.0	.0	.0	.3	.5	.5	.5	.0	14	.0	1.9
9/10	.0	.0	.1	1.3	.9	.4	.1	.0	14	.0	1.9
7/8	.0	.0	.8	1.7	2.9	.7	.0	.0	46	.2	6.0
6	.0	.1	.5	1.3	2.4	.1	.0	.0	34	.0	4.5
5	.0	.1	.7	3.2	1.1	.3	.0	.0	40	.0	5.3
4	.0	.0	2.0	6.0	1.6	.3	.0	.0	74	.1	9.7
3	.0	.1	4.4	2.8	1.1	.0	.0	.0	63	.0	8.4
2	.0	.7	6.5	4.1	.4	.0	.0	.0	88	.0	11.7
1	.1	1.3	9.2	2.5	.4	.0	.0	.0	102	.3	13.2
0	.0	3.9	6.9	2.0	.1	.0	.0	.0	197	.1	12.7
-1	.5	2.4	4.0	1.3	.0	.0	.0	.0	62	.0	8.2
-2	.8	1.6	2.4	.9	.0	.0	.0	.0	43	.0	5.7
-3	.1	1.3	.5	.3	.1	.0	.0	.0	27	.0	3.6
-4	.7	1.2	.8	.0	.0	.0	.0	.0	20	.0	2.7
-5	.0	.8	.3	.0	.0	.0	.0	.0	8	.0	1.1
-6	.1	.9	.0	.0	.0	.0	.0	.0	8	.0	1.1
-7/08	.4	.4	.1	.0	.0	.0	.0	.0	7	.0	.9
-9/10	.1	.0	.1	.0	.0	.0	.0	.0	2	.0	.3
TOTAL	22	113	302	205	67	19	6	1	753	.5	748
PCT	2.9	13.0	40.1	27.0	11.6	2.5	.8	.1	100.0	.7	99.3

APRIL  
 AREA 0023 N. E. PERSIAN GULF  
 27.1N 51.9E

TABLE 18

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

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

HGT	N										PCT		
	1-3	4-10	11-21	22-33	34-47	48+	PCT	48+	11-21	22-33		34-47	48+
<1	.0	1.3	.0	.0	.0	.0	1.3	.2	.0	.0	.0	.0	1.5
1-2	.0	4.0	.6	.0	.0	.0	4.7	.6	.0	.0	.0	.0	.6
3-4	.0	.0	.3	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0
5-6	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-85	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.3	2.3	.5	.0	.0	8.1	.8	.0	.0	.0	.0	2.1

HGT	E										PCT		
	1-3	4-10	11-21	22-33	34-47	48+	PCT	48+	11-21	22-33		34-47	48+
<1	1.3	1.0	.0	.0	.0	.0	2.3	4.8	.6	.0	.0	.0	5.5
1-2	.0	3.4	.0	.0	.0	.0	3.4	4.4	.0	.0	.0	.0	4.4
3-4	.0	.0	1.8	.0	.0	.0	1.8	1.0	.2	.0	.0	.0	1.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-85	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	4.4	1.8	.0	.0	.0	7.4	10.2	.8	.6	.0	.0	11.6



APRIL  
TABLE 1A  
AREA 0023 N. E. PERSIAN GULF  
27.1N 51.9E

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

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

HGT (1)	S					SW					48+	PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33		
1-2	1.5	1.5	.0	.0	.0	.0	1.5	1.9	.0	.0	.0	1.5
3-4	.0	3.2	.0	.0	.0	.0	3.9	1.9	.0	.0	.0	2.6
5-6	.0	1.0	1.3	.0	.0	.0	2.3	.6	.0	.0	.0	.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
51-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	4.7	1.9	.0	.0	.0	7.1	3.9	.0	.0	.0	4.7

HGT (1)	W					NW					48+	PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33		
1-2	1.5	1.9	.0	.0	.0	.0	2.9	4.5	.0	.0	.0	1.5
3-4	.0	5.8	1.6	.0	.0	.0	7.4	8.2	2.9	.0	.0	11.8
5-6	.0	2.1	2.1	.0	.0	.0	4.2	6.3	7.1	.0	.0	13.4
7	.0	.0	2.4	.6	.0	.0	3.1	.0	4.2	1.3	.0	5.5
8-9	.0	.0	.5	1.0	.0	.0	1.5	.0	4.8	1.0	.0	1.8
10-11	.0	.0	.0	.5	.0	.0	.5	.0	1.0	1.0	.0	1.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.6
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-47	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	9.8	6.6	2.1	.0	.0	15.5	19.0	15.0	3.9	.0	39.5

AREA: 0023 N. E. PERSIAN GULF  
27.1N 51.9E

APRIL

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

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT				
<1	.4	14.9	.6	.0	.0	.0	27.7				
1-2	1.7	28.0	5.1	.0	.0	.0	24.9				
3-4	.0	9.7	11.4	.0	.0	.0	21.1				
5-6	.0	.0	6.9	2.8	.0	.0	9.1				
7	.0	.0	1.1	1.7	.0	.0	2.9				
8-9	.0	.0	.0	1.7	.0	.0	1.7				
10-11	.0	.0	.0	.6	.0	.0	.6				
12	.0	.0	.0	.0	.0	.0	.0				
13-15	.0	.0	.0	.0	.0	.0	.0				
17-19	.0	.0	.0	.0	.0	.0	.0				
20-22	.0	.0	.0	.0	.0	.0	.0				
23-25	.0	.0	.0	.0	.0	.0	.0				
26-32	.0	.0	.0	.0	.0	.0	.0				
33-40	.0	.0	.0	.0	.0	.0	.0				
41-45	.0	.0	.0	.0	.0	.0	.0				
49-60	.0	.0	.0	.0	.0	.0	.0				
61-70	.0	.0	.0	.0	.0	.0	.0				
71-86	.0	.0	.0	.0	.0	.0	.0				
87+	.0	.0	.0	.0	.0	.0	.0				
TOT PCT	16.0	52.6	25.1	6.3	.0	.0	100.0	175			

TABLE 19  
PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)													TOTAL	MEAN HGT								
	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32			33-40	41-48	49-60	61-70	71-86	87+		
<6	9.6	24.1	17.2	3.2	1.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	345	2	
6-7	.3	1.3	3.1	3.1	1.4	1.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	66	5
8-9	.0	.5	.3	1.3	.8	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	3
10-11	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	9
12-13	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	11
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDET	19.5	6.9	1.9	.5	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	167	2
TOTAL	183	207	140	50	27	11	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	622	2
PCT	29.4	32.8	22.5	8.0	4.3	1.8	1.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	0

MAY  
 AREA 0023 N. E. PERSIAN GULF  
 27.1N 51.8E

TABLE 1

PERIOD (PRIMARY) 1941-1971  
 (OVER-ALL) 1914-1971

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHWR	RAIN SHWR	ORZL PCPN	PRECIPITATION TYPE			HAIL PCPN	PCT FREQ DB TIME	TOTAL PCPN DBS	THOR LTNG	OTHER WEATHER PHENOMENA						TOTAL DBS	
				FRZG PCPN	SNOW	OTHER FRZN PCPN					FG	SMOKE	DUST	NO	HAZE	BLWG		SIG
N	.1	.0	.0	.0	.0	.0	.0	.1	0	.1	.4	.5	.0	.0	.0	.0	8.0	77
NE	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.3	.0	.0	.0	.0	2.3	23
E	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.2	.7	.1	.1	.1	.0	3.1	33
SE	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.1	1.1	.1	.1	.1	.0	4.3	48
S	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.1	.3	.0	.0	.0	.0	2.4	23
SW	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.5	.1	.1	.1	.0	3.5	34
W	.1	.0	.0	.0	.0	.0	.0	.1	0	.2	.5	2.1	1.6	20.0	.0	.0	20.0	207
NW	.1	.0	.0	.0	.0	.0	.0	.1	1	.4	1.7	2.9	3.1	29.7	.0	.0	29.7	318
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	0	.1	.1	1.4	.2	7.3	.0	.0	7.3	78
TOT DBS	2	0	0	0	0	0	0	0	2	8	27	185	45	681	.0	.0	681	846
TOT PCT	.2	.0	.0	.0	.0	.0	.0	.2	2	.9	3.2	10.0	5.3	80.5	.0	.0	80.5	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN SHWR	RAIN SHWR	ORZL PCPN	PRECIPITATION TYPE			HAIL PCPN	PCT FREQ DB TIME	TOTAL PCPN DBS	THOR LTNG	OTHER WEATHER PHENOMENA						TOTAL DBS	
				FRZG PCPN	SNOW	OTHER FRZN PCPN					FG	SMOKE	DUST	NO	HAZE	BLWG		SIG
0000	1.0	.0	.0	.0	.0	.0	.0	1.0	2	3.1	1.0	7.1	5.1	89.7	.0	.0	89.7	196
0600	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	3.3	10.5	4.0	77.0	.0	.0	77.0	248
1200	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	1.7	12.6	4.8	81.0	.0	.0	81.0	231
1800	.0	.0	.0	.0	.0	.0	.0	.0	0	.9	1.3	8.3	7.4	82.1	.0	.0	82.1	229
TOT	2	0	0	0	0	0	0	2	2	8	30	88	48	730	.0	.0	730	904
PCT	.2	.0	.0	.0	.0	.0	.0	.2	2	.9	3.3	9.7	5.3	80.8	.0	.0	80.8	100.0

PERIOD: (PRIMARY) 1941-1971  
(OVER-ALL) 1914-1971

MAY

APEA 0023 N. E. PERSIAN GULF  
27.1N 51.8E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										WIND DIRECTION BY SPEED AND BY HOUR						
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL DBS	PCT FREQ	MEAN SPO	CO	03	06	09	12	15	18	21
N	1.3	4.9	2.5	.2	.0	.0	93	8.9	8.9	9.6	11.5	10.3	4.8	8.0	7.4	9.2	10.0
NE	.9	1.4	.4	.0	.0	.0	28	2.7	6.5	2.9	3.8	4.6	2.1	1.6	1.5	1.6	4.4
E	1.2	3.1	.1	.0	.0	.0	46	4.5	4.5	3.3	11.5	8.3	1.4	3.5	8.9	2.8	2.2
SE	2.2	3.3	.1	.0	.0	.0	57	5.5	4.9	3.6	17.7	6.1	4.1	7.6	2.9	6.3	.0
S	1.1	1.4	.1	.0	.0	.0	24	2.5	5.0	2.3	.0	3.4	1.4	3.6	1.5	1.6	1.1
SW	.8	3.1	.5	.0	.0	.0	45	4.3	7.0	2.8	1.9	4.0	3.1	4.8	7.4	4.8	5.0
W	3.3	14.4	6.9	.5	.0	.0	261	25.0	9.0	24.3	21.2	22.8	32.2	29.1	27.2	21.9	20.6
NW	2.9	17.4	15.3	2.2	.0	.0	393	37.7	11.0	35.2	26.9	35.6	43.5	35.6	43.4	40.9	43.3
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.8	51.0	27.0	.30	.0	.0	92	8.8	.0	16.0	15.4	4.7	5.3	6.3	.0	10.9	13.3
TOT DBS	233	48.9	25.9	2.9	.0	.0	1043	8.3	8.3	188	13	232	73	230	34	220	42
TOT PCT	22.3	48.9	25.9	2.9	.0	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										WIND DIRECTION BY SPEED AND BY HOUR					
	0-6	7-16	17-27	28-40	41+	TOTAL DBS	PCT FREQ	MEAN SPO	CO	03	06	09	12	15	18	21
N	3.9	3.9	1.2	.0	.0	93	8.9	8.9	9.7	9.0	7.9	7.9	9.3	9.3	9.3	9.3
NE	1.5	1.0	.1	.0	.0	28	2.7	6.5	3.0	4.0	1.6	1.6	2.1	2.1	2.1	2.1
E	3.8	3.6	.1	.0	.0	46	4.5	4.5	3.9	6.6	4.1	4.1	2.7	2.7	2.7	2.7
SE	4.3	1.2	.1	.0	.0	57	5.5	4.9	3.9	5.7	7.0	5.2	5.2	5.2	5.2	5.2
S	1.8	.6	.1	.0	.0	24	2.5	5.0	2.1	3.0	3.3	1.5	1.5	1.5	1.5	1.5
SW	2.3	1.9	.2	.0	.0	45	4.3	7.0	2.7	4.3	5.1	4.8	4.8	4.8	4.8	4.8
W	10.0	12.4	3.5	.1	.0	261	25.0	9.0	24.1	25.1	28.9	21.7	21.7	21.7	21.7	21.7
NW	10.0	20.2	7.4	.1	.0	393	37.7	11.0	34.7	37.5	36.6	41.3	41.3	41.3	41.3	41.3
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.8	43.5	12.2	.2	.0	92	8.8	.0	15.9	4.9	5.5	11.3	11.3	11.3	11.3	11.3
TOT DBS	484	41.7	11.7	.2	.0	1043	8.3	8.3	201	303	272	265	265	265	265	265
TOT PCT	46.4	41.7	11.7	.2	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

MAY

PERIOD (PRIMARY) 1941-1571  
(OVER-ALL) 1914-1571

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)					PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47		
0600	15.9	10.9	44.3	25.9	3.0	.0	201	
0605	4.9	15.1	52.5	24.6	3.0	.0	305	
1215	5.5	13.2	51.8	26.8	2.6	.0	272	
1821	11.3	14.0	45.5	26.4	3.0	.0	265	
TOT	92	141	510	270	30	0	1043	
PCT	8.8	13.5	48.9	25.9	2.9	.0	100.0	

TABLE 5

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

WIND DIR	PCT FREQ							TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-6	8-8	9-10	10-12		
N	6.7	1.0	1.2	.2	.0	.0	.0	65	1.5
NE	2.1	.2	.1	.0	.0	.0	.0	17	.5
E	3.5	.1	.3	.0	.0	.0	.0	28	.9
SE	4.4	.3	.7	.1	.0	.0	.0	39	1.4
S	1.5	.4	.6	.3	.0	.0	.0	20	3.0
SW	2.1	.2	.5	.2	.0	.0	.0	26	1.5
W	20.2	1.7	1.5	.5	.0	.0	.0	188	.9
NW	34.6	1.0	1.8	.8	.0	.0	.0	276	.8
VAR	.0	.0	.0	.0	.0	.0	.0	0	.0
CALM	8.1	.8	.6	.0	.0	.0	.0	68	.7
TOT OBS	600	46	52	14	712	100.0			1.0
TOT PCT	84.3	6.5	7.3	2.0	100.0				

TABLE 6

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

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)										TOTAL OBS	ANY HGT OBS	
	0-100	100-200	200-300	300-500	500-1000	1000-2000	2000-3500	3500-5000	5000-8000+	8000+ NH <5/8			
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	65
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	39
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	188
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	276
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	68
TOT OBS	600	46	52	14	712	100.0							712
TOT PCT	84.3	6.5	7.3	2.0	100.0								100.0

PERIOD: (PRIMARY) 1941-1971  
(OVER-ALL) 1914-1971

MAY

AREA 0023 N. E. PERSIAN GULF  
27.1N 51.8E

TABLE 7

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

CEILING (FEET)	>10		>5		>2		>1		>1/2		>1/4		>50YD		>0	
	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR
OR >6500	.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
OR >5000	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
OR >3500	1.3	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
OR >2000	1.4	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
OR >1000	2.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
OR >600	2.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
OR >300	2.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
OR >150	2.2	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
OR TOTAL	17	26	32	32	32	32	32	32	32	32	32	32	32	32	32	32

TOTAL NUMBER OF OBSI 767

PCT FREQ NH <5/81 95.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL
76.7	11.5	4.1	1.7	1.4	.6	1.0	1.9	1.0	.1	892

AREA 0023 N. E. PERSIAN GULF  
27.1N 51.8E

MAY

PERIOD: (PRIMARY) 1941-1971  
(OVER-ALL) 1913-1971

TABLE 8

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

WIND DIRECTION	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
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
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
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.2	.1	.2	.1	.1	.3	.6	.0	.0	.0	1.7
TOT %	.2	.1	.2	.1	.1	.3	.6	.0	.0	.0	1.7
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.1	.2	.2	.0	.4	1.0	2.0	.0	.6	.6	4.6
TOT %	.1	.2	.2	.0	.4	1.0	2.0	.0	.6	.6	4.6
PCP	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.1
NO PCP	.9	1.1	1.8	.8	1.2	5.3	8.7	.0	1.5	23.5	23.6
TOT %	2.2	2.9	3.1	1.8	2.5	5.4	8.7	.0	1.5	23.6	23.6
PCP	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
NO PCP	6.6	1.7	2.7	3.4	2.5	17.7	26.0	.0	7.1	69.5	69.5
TOT %	6.6	1.7	2.7	3.4	2.5	17.7	26.0	.0	7.1	69.5	69.5
TOT OBS	9.1	2.8	4.2	5.7	4.0	24.5	37.7	.0	9.2	100.0	846
TOT PCT	9.1	2.8	4.2	5.7	4.0	24.5	37.7	.0	9.2	100.0	846

PERIOD: (PRIMARY) 1961-1971  
(OVER-ALL) 1914-1971

MAY

AREA 0029 N. E. PERSIAN GULF  
27.1N 51.8E

TABLE 1  
PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT DBS	TOTL DBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.3
	4-10	.1	.0	.1	.0	.0	.0	.4	.4	.0	.0	.0	1.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.0	.1	.1	.1	.1	.4	.4	.0	.0	.0	1.7
<1/4	0-3	.0	.0	.0	.2	.0	.0	.1	.2	.0	.0	.0	1.1
	4-10	.1	.0	.1	.0	.0	.0	.6	.6	.0	.0	.0	1.5
	11-21	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	1.8
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.0	.1	.2	.2	.0	.3	1.1	1.9	.0	.0	4.5
5<10	0-3	.7	.3	.5	.3	.3	.3	.7	.5	.0	1.5	5.1	11.3
	4-10	1.2	.5	.9	1.5	.4	.9	2.8	3.1	.0	4.9	11.3	23.2
	11-21	.2	.0	.1	.0	.1	.0	1.2	3.2	.0	4.9	11.3	23.2
	22+	.1	.0	.0	.0	.0	.0	.1	1.1	.0	1.2	2.3	4.6
	TOT %	2.2	.8	1.5	1.8	.8	1.2	4.8	8.0	8.0	.0	15.5	32.5
10+	0-3	.7	.6	.6	1.5	.8	.3	2.5	3.2	.0	6.6	15.8	32.5
	4-10	3.5	.9	2.1	1.7	.9	2.1	10.7	13.2	.0	20.9	46.7	93.4
	11-21	2.2	.2	.0	.1	.0	.2	5.3	10.5	.0	15.8	35.1	71.2
	22+	.1	.0	.0	.0	.0	.0	.4	1.0	.0	1.4	2.8	5.6
	TOT %	6.5	1.7	2.7	3.3	1.7	2.6	18.9	26.9	3.0	6.6	70.9	142.8
TOT DBS	9.0	2.7	4.5	5.4	2.6	4.3	25.2	37.7	.0	8.6	100.0	1028	



MAY

TABLE 10

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

HOUR (GMT)	000	150	300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100	2250	TOTAL	NH < 5/8 ANY HGT	TOTAL	NH < 5/8 TOTAL OBS
00003	.0	.0	.0	.0	.0	1.8	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	3.0	97.0	189	
06009	.0	.4	.0	.0	1.6	.0	1.3	.0	.4	.0	.0	.0	.0	.0	.0	.0	4.0	96.0	227	
12015	.4	.4	.0	.4	1.8	.0	.4	.0	.9	.0	.0	.0	.0	.0	.0	.0	5.4	94.6	224	
18021	.0	.0	.0	.0	1.0	.5	.0	.5	1.0	.5	.0	.0	.0	.0	.0	.0	3.4	96.6	207	
TOT	1	2	0	1	13	2	4	2	5	3	3	3	3	3	3	3	33	794	827	
PCT	.1	.2	.0	.1	1.6	.2	.5	.2	.6	.4	.4	.4	.4	.4	.4	.4	4.0	96.0	100.0	

TABLE 11

PERCENT FREQUENCY V58Y (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<4	4<5	5<10	10+	TOTAL OBS
00003	.0	.0	.0	3.8	15.6	80.6	160	160	160
06009	.0	1.5	.0	3.5	23.4	71.6	201	201	201
12015	.5	.0	.0	4.3	21.1	74.2	209	209	209
18021	.5	.0	.0	4.1	21.3	74.1	197	197	197
TOT	2	3	0	30	156	574	767	767	767
PCT	.3	.4	.0	3.9	20.6	74.8	100.0	100.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF V58Y (NM) AND/OR CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	<150	<600	<1000	1000+	NH < 5/8 AND 5+	TOTAL OBS
00003	.0	.0	3.8	3.1	93.1	160
06009	.0	2.0	5.0	3.0	92.0	201
12015	.0	1.0	5.7	2.9	91.4	209
18021	.0	.5	4.6	3.6	91.9	197
TOT	0	7	37	24	706	767
PCT	.0	.9	4.8	3.1	92.0	100.0

MAY

PERIOD: (PRIMARY) 1941-1971  
(OVER-ALL) 1914-1971

AREA 0023 N. E. PERSIAN GULF  
27.1N 51.8E

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY (BY TEMP)										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100				
95/99	.0	.0	.2	.0	.2	.3	.0	.0			7	.8
90/94	.0	.0	.3	1.4	2.5	1.5	.3	.0			39	6.0
85/89	.0	.0	.2	2.1	6.0	10.3	5.2	2.3			183	28.0
80/84	.0	.0	.2	2.6	9.6	14.2	11.8	3.8			289	44.3
75/79	.0	.0	.0	.3	2.0	6.7	4.6	5.7			126	19.3
70/74	.0	.0	.0	.0	.6	1.5	1.2	.5			11	1.7
TOTAL	.0	.0	.5	.42	15.0	21.9	14.4	9.3			653	100.0
PCT	.0	.0	.8	6.4	23.0	33.5	22.1	14.2				

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP												
		N	NE	E	SE	S	SW	W	NW	VAR	VAR	CALM
		.0	.0	.0	.0	.0	.2	.1	.5	.0	.0	.0
		.3	.3	.7	.7	.2	.2	1.5	1.3	.0	.0	.9
		2.2	1.0	2.0	2.1	.4	1.9	8.3	8.4	.0	.0	1.8
		4.0	1.2	2.1	2.0	1.5	1.7	10.8	16.0	.0	.0	3.1
		2.6	.5	.3	.8	.7	.6	3.3	8.8	.0	.0	1.7
		.2	.0	.2	.0	.0	.0	1.3	1.0	.0	.0	.0
		.61	.19	.34	.36	.18	.29	1.58	2.34	.0	.0	.62
		9.3	2.9	5.2	5.6	2.8	4.6	24.2	35.9	.0	.0	9.5

TABLE 15

HOUR (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL OBS
	MAX	99%	95%	50%	5%	1%	MIN	MEAN			
00003	90	88	87	80	75	73	71	80.7			212
06009	95	94	91	84	77	72	70	83.8			321
12015	96	95	92	85	79	75	70	85.1			283
18021	93	90	87	82	76	73	70	81.4			276
TOT	96	94	90	83	76	73	70	83.4			1092

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR												
		0-29	30-59	60-69	70-79	80-89	90-100	MEAN			TOTAL OBS	
		.0	6.1	23.1	28.6	22.4	21.8	78			147	
		.0	6.4	18.6	38.3	26.1	10.6	76			186	
		.0	14.0	31.2	36.6	11.8	6.5	71			181	
		.0	3.9	18.8	26.5	32.0	18.8	79			181	
		0	51	131	230	162	98	76			702	

PERIOD: (PRIMARY) 1941-1971  
(OVER-ALL) 1914-1971

MAY

AREA 0023 N. E. PERSIAN GULF  
27.0IN 51.8E

TABLE 17  
PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69	73	77	81	85	89	93	TOT	M FOG	W FOG	WD FOG
14/16	.0	.0	.0	.0	.3	.3	.5	8	.0	.0	1.0
11/13	.0	.0	.0	.0	.3	1.3	.5	14	.1	.1	1.7
9/10	.0	.0	.0	.3	1.3	1.8	.5	30	.1	.1	3.8
7/8	.0	.0	.4	1.2	3.1	1.6	.1	49	.7	.7	5.8
6	.0	.0	.4	2.0	2.0	.5	.1	38	.4	.4	4.6
5	.0	.0	.9	1.6	4.2	1.0	.0	59	.5	.5	7.2
4	.0	.1	1.8	5.0	4.2	.5	.0	73	.4	.4	11.3
3	.0	.3	2.8	4.6	2.1	.1	.1	73	.3	.3	9.7
2	.0	.3	2.9	6.7	4.1	.1	.0	107	.7	.7	13.4
1	.1	.3	3.1	6.0	1.4	.4	.0	87	.1	.1	11.3
0	.1	1.0	4.1	3.8	1.4	.0	.0	80	.3	.3	10.2
-1	.1	.8	2.6	2.4	.5	.0	.0	50	.0	.0	6.6
-2	.0	.9	2.0	1.7	.1	.0	.0	36	.3	.3	4.5
-3	.5	.3	1.0	.5	.0	.0	.0	18	.0	.0	2.4
-4	.0	.1	1.0	.3	.0	.0	.0	11	.0	.0	1.4
-5	.0	.1	.3	.1	.0	.0	.0	4	.0	.0	.5
-6	.0	.1	.1	.0	.1	.0	.0	3	.0	.0	.4
-9/-10	.0	.0	.3	.0	.0	.0	.0	2	.0	.0	.3
-11/-13	.0	.0	.1	.0	.0	.0	.0	1	.0	.0	.1
TOTAL	7	33	183	275	192	57	15	762	29	29	733
PCT	.9	4.3	24.0	36.1	25.2	7.5	2.0	100.0	3.8	3.8	96.2

PERIOD: (PRIMARY) 1963-1971  
 (OVER-ALL) 1963-1971  
 MAY  
 TABLE 18  
 AREA: 0029 N. E. PERSIAN GULF  
 27.1N 51.8E

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

HGT	N					NE					48+	PCT	
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33			34-47
<1	1.0	1.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.9
1-2	.5	2.8	.5	.0	.0	.0	.9	.0	.0	.0	.0	.0	.9
3-4	.0	1.2	.7	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7
5-6	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
25-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	5.0	1.7	.7	.0	.0	.9	.9	.7	.0	.0	.0	2.4

HGT	E					SE					48+	PCT	
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33			34-47
<1	.7	.7	.0	.0	.0	.0	2.7	2.1	.0	.0	.0	.0	4.8
1-2	.0	.0	.7	.0	.0	.0	.7	2.1	.0	.0	.0	.0	2.8
3-4	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	.7	.7	.0	.0	.0	3.4	4.8	.0	.0	.0	.0	8.3

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

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

HGT	NW					SW					PCT		
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21		22-33	34-47
<1	.4	2.2	.0	.0	.0	.0	2.6	.0	3.3	.0	.0	.0	.0
1-2	.0	4.1	1.0	.0	.0	.0	5.2	.0	4.7	3.8	.0	.0	.0
3-4	.0	1.6	7.6	.0	.0	.0	9.1	.0	3.3	10.3	.7	.0	.0
5-6	.0	.7	2.4	.0	.0	.0	3.1	.0	.7	1.4	1.4	.0	.0
7	.0	.0	1.6	.5	.0	.0	2.1	.0	.0	5.3	2.9	.0	.0
8-9	.0	.0	.5	.0	.0	.0	.5	.0	.0	.9	.7	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	8.6	13.1	.5	.0	.0	22.6	.0	3.1	11.9	29.8	5.7	.0

PERIOD (PRIMARY)  
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TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOT OBS
	3-9	10-10	11-21	22-33	34-47	48+	PCT				
<1	23.2	10.7	.0	.0	.0	.0	31.0				
1-2	3.0	11.9	5.4	.0	.0	.0	20.2				
3-4	.6	6.5	16.7	.5	.0	.0	24.4				
5-6	.0	1.2	10.7	1.2	.0	.0	13.1				
7	.0	.0	4.0	3.0	.0	.0	18.9				
8-9	.0	.0	1.2	1.2	.0	.0	2.4				
10-11	.0	.0	.0	.0	.0	.0	.0				
12	.0	.0	.0	.0	.0	.0	.0				
13-16	.0	.0	.0	.0	.0	.0	.0				
17-19	.0	.0	.0	.0	.0	.0	.0				
20-22	.0	.0	.0	.0	.0	.0	.0				
23-25	.0	.0	.0	.0	.0	.0	.0				
26-32	.0	.0	.0	.0	.0	.0	.0				
33-40	.0	.0	.0	.0	.0	.0	.0				
41-48	.0	.0	.0	.0	.0	.0	.0				
49-60	.0	.0	.0	.0	.0	.0	.0				
61-70	.0	.0	.0	.0	.0	.0	.0				
71-86	.0	.0	.0	.0	.0	.0	.0				
87+	.0	.0	.0	.0	.0	.0	.0				
TOT PCT	23.8	30.4	39.9	6.0	.0	.0	100.0	168			

TABLE 19

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

PERIOD (SEC)	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)										MEAN HGT									
	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19		20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+ TOTAL
<6	10.0	21.5	13.5	5.9	1.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	255
6-7	.2	1.4	5.2	5.2	1.4	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	78
8-9	.0	.2	.0	1.1	1.2	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16
10-11	.0	.0	.0	.4	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9
12-13	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2
15-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDEX	20.7	3.9	3.0	.9	1.1	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	169
TOTAL	173	151	126	64	32	10	3	0	2	0	0	0	0	0	0	0	0	0	0	561
PCT	30.3	26.9	22.5	11.4	5.7	1.8	.5	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

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PERIOD (PRIMARY) 1947-1970  
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TABLE 1  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN		ORZL		PRECIPITATION TYPE			HAIL		PCT FREQ		TOTAL		THOR		OTHER WEATHER PHENOMENA				TOTAL OBS		
	SHWR	SHR	DRZL	PCPN	FRZG	SNOW	OTHER	FRZN	PCPN	DB TIME	AT	DBS	LTNG	PCPN	WV	SHOKE	DUST	BLWG	OUST		SIG	WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	1.0	4.0	4.0	81
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	1.6	1.7	17
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.1	2.0	2.2	22
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.1	3.4	3.4	34
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	2.7	1.8	18
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.1	2.7	2.1	21
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	2.1	16.2	19.3	193
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	3.2	28.7	30.0	300
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	1.3	16.2	17.4	174
TOT OBS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	127	64	564	777	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	16.3	8.2	72.6	100.0	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN		DRZL		PRECIPITATION TYPE			HAIL		PCT FREQ		TOTAL		THOR		OTHER WEATHER PHENOMENA				TOTAL OBS		
	SHWR	SHR	DRZL	PCPN	FRZG	SNOW	OTHER	FRZN	PCPN	DB TIME	AT	DBS	LTNG	PCPN	WV	SHOKE	DUST	BLWG	OUST		SIG	WEA
0003	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	15.6	9.9	72.9	192
0609	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.8	18.8	7.7	67.6	207
1215	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	16.9	9.4	71.4	213
1821	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	13.7	5.4	79.5	205
TOT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.3	13.3	6.6	59.5	817
PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	16.3	8.1	72.8	100.0

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PERIOD (PRIMARY) 1947-1970  
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TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)											
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPO	00	03	06	09	12	15	18	21					
N	1.8	3.2	1.3	.3	.0	.0	60	6.6	7.8	6.9	.0	9.0	9.8	4.0	4.4	6.8	4.4					
NE	.8	1.6	.1	.0	.0	.0	23	2.5	5.6	3.1	11.4	2.9	4.3	3.7	5.9	2.6	2.9					
E	1.0	1.4	.2	.0	.0	.0	24	2.6	5.1	.0	11.4	5.6	2.2	3.7	.0	.9	2.9					
SE	1.8	2.6	.1	.0	.0	.0	42	4.6	8.7	3.7	4.5	2.7	7.6	6.2	11.8	4.7	1.5					
S	1.0	1.3	.1	.0	.0	.0	22	2.4	5.1	1.7	4.5	1.9	2.7	2.3	5.9	2.5	7.4					
SW	1.5	2.8	.2	.0	.0	.0	41	4.5	5.7	4.7	4.5	2.8	4.9	5.3	.0	4.2	10.3					
W	3.6	15.0	5.5	.3	.0	.0	225	24.4	8.2	26.9	25.0	22.1	21.7	27.8	17.6	21.4	26.5					
NW	2.5	20.8	13.0	3.0	.0	.0	362	39.3	10.8	34.2	15.9	40.9	42.4	43.4	42.6	39.4	35.2					
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
CALM	13.2	449	189	33	0	0	122	13.2	7.6	18.8	27.3	12.2	4.2	7.0	11.8	17.4	8.2					
TOT OBS	232	48.6	20.5	3.6	.0	.0	923	100.0	7.6	202	11	197	47	213	17	201	34					
TOT PCT	27.3	48.6	20.5	3.6	.0	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0					

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)											
	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPO	00	03	06	09	12	15	18	21						
N	3.9	1.8	.9	.0	.0	60	6.6	7.8	6.6	6.6	9.2	4.0	4.0	6.5	6.5	4.4						
NE	1.8	.8	.0	.0	.0	23	2.5	5.6	2.5	3.5	3.2	.8	2.7	2.7	2.7	2.9						
E	1.9	.6	.1	.0	.0	24	2.6	5.1	2.6	.6	4.9	3.4	1.2	1.2	1.2	2.9						
SE	3.5	1.1	.0	.0	.0	42	4.6	8.7	4.6	3.8	3.6	6.6	4.3	4.3	4.3	1.5						
S	2.0	.3	.1	.0	.0	22	2.4	5.1	2.4	1.6	2.1	2.6	3.2	3.2	3.2	7.4						
SW	3.8	1.5	.1	.0	.0	41	4.5	5.7	4.5	4.7	3.2	5.0	5.1	5.1	5.1	10.3						
W	11.7	10.2	2.4	.2	.0	225	24.4	8.2	24.4	25.8	22.0	27.0	22.1	22.1	22.1	26.5						
NW	11.0	21.3	6.4	.6	.0	362	39.3	10.8	33.2	33.2	41.2	43.3	38.8	38.8	38.8	35.2						
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0						
CALM	13.2	347	92	7	0	122	13.2	7.6	19.2	10.7	7.3	16.2	16.2	16.2	16.2	8.2						
TOT OBS	477	37.6	10.0	.9	.0	923	100.0	7.6	213	243	232	235	235	235	235	34						
TOT PCT	51.7	37.6	10.0	.9	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0						



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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)					48+	MEAN	PCT		TOTAL OBS
		1-3	4-10	11-21	22-35	34-47			FREQ	FREQ	
0003	19.2	11.3	42.3	23.0	4.2	.0	7.6	100.0		213	
0609	10.7	18.1	48.1	20.2	2.9	.0	7.5	100.0		243	
1215	7.3	11.2	58.2	19.0	4.3	.0	8.2	100.0		232	
1821	16.2	15.3	45.5	20.0	3.0	.0	7.3	100.0		235	
TOT	123	130	449	169	33	0	7.6			923	
PCT	13.1	14.1	48.6	20.5	3.6	.0		100.0			

TABLE 5

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

WIND DIR	PCT FREQ							TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-5	6-5	7-5	8-5		
N	6.4	.3	.0	.1	.1	.1	.1	45	.5
NE	2.4	.1	.0	.0	.0	.2	.2	17	.2
E	2.3	.3	.0	.0	.0	.0	.4	17	.4
SE	3.5	.1	.3	.0	.0	.8	.8	26	.8
S	2.0	.1	.3	.0	.0	1.0	1.0	16	1.0
SW	4.2	.2	.0	.0	.0	.2	.2	29	.2
W	24.0	.6	.3	.1	.1	.3	.3	167	.3
NW	37.5	.7	.3	.4	.4	.3	.3	260	.3
VAR	.0	.0	.0	.0	.0	.0	.0	0	.0
CALM	12.0	.6	.1	.4	.4	.5	.5	88	.5
TOT OBS	630	21	9	8	668	.4			
TOT PCT	9.3	3.1	1.3	1.2	100.0				

TABLE 6

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

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH 24/8)										TOTAL OBS		
	000	150	300	500	600	1000	2000	3500	5000	6500		8000+	ANY HGT
N	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	45
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29
W	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	167
NW	.3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	260
VAR	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	0
CALM	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	88
TOT OBS	5	0	0	0	0	1	0	0	0	0	0	0	668
TOT PCT	.7	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1910-1970

JUNE

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.6E

TABLE 7

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

CEILING (FEET)	OR		OR		OR		OR		OR		CR
	>10	>5	>2	>1	>1/2	>1/4	>50%	>0			
OR >6500	.0	.0	.1	.1	.1	.1	.1	.1	.1	.1	.1
OR >5000	.0	.0	.1	.1	.1	.1	.1	.1	.1	.1	.1
OR >3500	.0	.0	.2	.3	.3	.3	.3	.3	.3	.3	.3
OR >2000	.0	.0	.3	.4	.4	.4	.4	.4	.4	.4	.4
OR >1000	.0	.1	.4	.4	.4	.4	.4	.4	.4	.4	.4
OR >600	.0	.1	.4	.4	.4	.4	.4	.4	.4	.4	.4
OR >500	.0	.1	.4	.4	.4	.4	.4	.4	.4	.4	.4
OR >150	.0	.1	.4	.4	.4	.4	.4	.4	.4	.4	.4
OR >0	.0	.1	.6	.7	.7	1.1	1.1	1.1	1.1	1.1	1.1
TOTAL	0	1	4	5	5	8	8	8	8	8	8

TOTAL NUMBER OF OBS: 711 PCT FREQ NH <5/8: 98.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCO	TOTAL
84.3	12.1	.6	1.0	.8	.3	.1	.1	.0	.7	718

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1910-1970

JUNE

AREA 0023 N. E. PEKSIAN GULF  
27.2N 51.8E

TABLE 8

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

VSBY (NM)	PCP NO PCP TOT %	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	.0 .1 .1	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .3 .3	.0 .3 .3	.0 .0 .0	.0 .0 .0	.0 .8 .8	.0
1/2<1	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .3 .3	.0 .1 .1	.0 .0 .0	.0 .0 .0	.0 .5 .5	.0
1<2	.0 .1 .1	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .5 .5	.0 .1 .1	.0 .0 .0	.0 .0 .0	.0 .1 .1	.0
2<5	.0 .6 .6	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .2 .2	.0 .1 .1	.0 .2 .2	.0 .0 .0	.0 .0 .0	.0 .9 .9	.0
5<10	.0 1.6 1.6	.0 .4 .4	.0 .9 .9	.0 .9 .9	.0 .9 .9	.0 .6 .6	.0 1.7 1.7	.0 6.1 6.1	.0 11.2 11.2	.0 .0 .0	.0 .0 .0	.0 4.6 4.6	.0
10+	.0 4.2 4.2	.0 1.5 1.5	.0 1.5 1.5	.0 3.2 3.2	.0 1.4 1.4	.0 2.2 2.2	.0 15.6 15.6	.0 23.2 23.2	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 8.2 8.2	.0
TOT OBS		6.7	2.2	2.9	4.4	2.3	4.1	24.9	38.6	.0	13.9	100.0	777
TOT PCT													

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1910-1970

JUNE

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 9

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

VSBY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT TOTAL C8S
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.0	.0	.0	.0	.0	.2	.3	.0	.0	.3
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.1	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.7
1/2-1	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
	4-10	.0	.0	.0	.1	.1	.0	.1	.1	.0	.0	.3
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.1	.1	.0	.0	.2	.1	.0	.0	.5
1-2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	4-10	.0	.1	.0	.0	.0	.0	.3	.5	.0	.0	.9
	11-21	.1	.0	.0	.0	.0	.0	.1	.5	.0	.0	.7
	22+	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
TOT %	.1	.1	.0	.0	.0	.0	.0	.5	1.5	.0	.1	1.8
2-5	0-3	.1	.1	.1	.2	.1	.1	.1	.3	.0	.8	1.7
	4-10	.5	.3	.3	.3	.2	.1	1.2	1.0	.0	.0	2.6
	11-21	.1	.0	.1	.0	.0	.0	.0	1.3	.0	.0	2.0
	22+	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
TOT %	.6	.2	.5	.4	.3	.3	.3	1.8	2.6	.0	.8	7.4
5-10	0-3	.6	.0	.3	.5	.3	.7	.5	.4	.0	4.6	8.0
	4-10	.6	.3	.3	.6	.4	.9	3.9	5.9	.0	.0	13.0
	11-21	.2	.#	.1	.0	.0	.1	1.7	4.1	.0	.0	6.2
	22+	.1	.0	.0	.0	.0	.0	.1	.4	.0	.0	.6
TOT %	1.5	.4	.8	1.0	.8	1.7	6.2	10.7	10.7	.0	4.6	27.7
10+	0-3	1.2	.5	.6	1.3	.6	.7	3.2	1.9	.0	8.2	18.4
	4-10	2.0	1.2	.8	1.7	.6	1.8	8.6	13.5	.0	.0	30.3
	11-21	1.0	.1	.0	.1	.1	.1	2.9	6.6	.0	.0	10.8
	22+	.2	.0	.0	.0	.0	.0	.2	2.0	.0	.0	2.4
TOT %	4.4	1.9	1.5	3.1	1.4	2.6	14.9	24.1	24.1	.0	8.2	61.9
TOT C8S		6.7	2.5	2.7	4.6	2.4	4.6	23.8	38.9	.0	13.8	100.0
TOT PCT												887

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >4/8) AND OCCURRENCE OF NH <5/6 SY HOUR

HOUR (GMT)	000	150	300	500	1000	2000	3000	5000	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL NH <5/8 OBS
	149	299	599	999	1999	3499	4999	6499	7999			OBS
00003	1.1	.0	.0	.0	.0	.0	.0	.0	.0	1.1	98.9	178
06009	.6	.0	.0	.0	.0	.0	.6	.0	.0	1.2	98.8	170
12015	.5	.0	.0	.0	.0	.0	.0	.0	.5	1.1	98.9	187
18021	.5	.0	.0	.0	.5	.0	.0	.0	.0	1.1	98.9	182
TOT	5	0	0	0	1	0	1	0	1	8	709	717
PCT	.7	.0	.0	.0	.1	.0	.1	.0	.1	1.1	98.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.6	1.1	.6	7.9	24.2	65.7	178
06009	1.2	.6	3.0	8.9	21.2	63.1	168
12015	.5	.0	2.2	7.6	25.9	63.8	185
18021	.6	.6	.0	5.0	29.4	64.4	180
TOT	5	4	10	52	183	457	711
PCT	.7	.6	1.4	7.3	25.7	64.3	100.0

TABLE 12

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

HOUR (GMT)	<150	<500	<1000	1000+	NH <5/8 AND 5+	TOTAL OBS
00003	1.1	2.2	10.1	.0	89.9	178
06009	.6	1.8	13.7	.0	86.3	168
12015	.5	1.1	10.3	.0	89.7	185
18021	.6	1.1	6.1	.0	93.3	180
TOT	5	11	71	1	639	711
PCT	.7	1.5	10.0	.1	89.9	100.0

JUNE

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1910-1970

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100				
100/104	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	2	.4
95/99	.0	.0	.4	.5	.5	.0	.0	.0	.0	.0	8	1.4
90/94	.0	.4	.2	3.0	7.7	11.6	3.2	1.3	.0	.0	153	27.3
85/89	.0	.0	.2	2.5	9.3	17.3	19.5	5.2	.0	.0	302	53.9
80/84	.0	.0	.0	.0	1.6	2.3	7.0	5.5	.0	.0	92	16.4
75/79	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	3	.5
TOTAL	.0	.2	.5	3.4	10.8	17.6	16.7	6.8	.0	.0	560	100.0
PCT	.0	.4	.9	6.1	19.3	31.4	29.8	12.1				

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP											VAR	CALM
N	NE	E	SE	S	SW	W	NW					
.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0
.2	.0	.0	.2	.0	.0	.7	.2	.0	.0	.0	.0	.2
1.6	.5	1.5	1.3	.8	.9	7.3	9.3	.0	.0	.0	.0	3.8
2.6	.8	1.1	2.0	.8	3.0	15.3	23.2	.0	.0	.0	.0	7.1
.6	1.3	.1	.6	.6	1.2	3.9	5.4	.0	.0	.0	.0	2.7
.1	.4	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2
.28	1.4	1.5	2.4	1.2	2.8	15.4	20.4	.0	.0	.0	.0	.78
5.0	2.6	2.8	4.3	2.2	5.1	27.5	36.5	.0	.0	.0	.0	13.9

TABLE 15

HOUR (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL OBS
	MAX	99%	95%	90%	85%	80%	5%	1%	MIN	MEAN	
0603	94	93	90	88	85	80	79	78	85.4	221	
0809	103	98	94	86	83	82	81	81	88.3	244	
1215	102	100	94	90	84	81	80	81	89.0	234	
1821	97	93	91	86	81	80	80	79	86.4	247	
TOT	103	93	93	87	82	82	80	78	87.4	946	

TABLE 16

HOUR (GMT)	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL OBS
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN		
0603	.0	6.0	14.6	25.2	30.2	23.8	7.9	7.9	151		
0809	.0	7.8	19.1	29.8	35.5	7.8	7.6	7.6	141		
1215	.0	8.7	24.8	48.3	16.8	1.3	7.2	7.2	149		
1821	.0	6.5	17.6	22.2	37.3	16.3	7.8	7.8	153		
TOT	0	43	113	186	178	74	76	76	594		

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1910-1970

JUNE

AREA 0025 NE S. PERSIAN GULF  
27.2N 51.8E

TABLE 17

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

AIR-SEA TMP DIF	77	81	85	89	93	TOT	M	W	FOG
11/13	.0	.0	.0	.0	.9	12	.0	.0	1.3
9/10	.0	.1	2.1	1.9	.9	25	.3	.3	1.8
7/8	.0	.0	.9	3.8	1.5	44	.0	.0	6.4
6	.0	.0	1.0	2.2	.9	29	.3	.3	3.8
5	.0	.3	1.2	3.0	.9	36	.1	.1	5.2
4	.0	.6	4.3	4.1	.0	61	.6	.6	8.4
3	.0	.4	4.6	4.1	.9	68	.3	.3	9.7
2	.1	1.8	7.7	3.5	.0	99	.6	.6	12.6
1	.1	1.8	6.1	3.4	.0	77	.3	.3	11.1
0	.4	2.5	7.8	1.3	.0	82	.1	.1	12.0
-1	.0	2.5	4.3	1.0	.0	53	.1	.1	7.7
-2	.3	2.1	3.7	.7	.0	46	.1	.1	6.6
-3	.0	1.0	2.1	.1	.0	22	.1	.1	3.1
-4	.1	1.0	.4	.0	.0	11	.0	.0	1.6
-5	.3	.7	.0	.1	.0	8	.0	.0	1.2
-6	.1	.6	.3	.0	.0	7	.0	.0	1.0
-7/-8	.1	.4	.0	.0	.0	4	.0	.0	.6
-11/-13	.0	.1	.0	.0	.0	1	.0	.0	.1
TOTAL	12	108	301	201	47	677	21	21	652
PCT	1.8	16.0	44.5	29.7	6.9	100.0	3.1	3.1	96.3

JUNE  
 AREA 0023 N. E. PERSIAN GULF  
 27.2N 51.8E

TABLE 1B

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

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

HGT	N					NE					48+	PCT	
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21			22-33
<1	4.0	1.1	.0	.0	.0	.0	5.1	.2	.9	.0	.0	.0	1.1
1-2	.7	1.3	.0	.0	.0	.0	2.0	.0	.7	.0	.0	.0	.7
3-4	.0	.7	1.3	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.8	3.1	1.8	.0	.0	.0	9.7	.2	1.7	.0	.0	.0	1.8

HGT	E					SE					48+	PCT	
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21			22-33
<1	.6	1.3	.0	.0	.0	.0	1.8	.0	1.5	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0
3-4	.0	.0	.7	.0	.0	.0	.7	.0	1.5	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	1.5	.7	.0	.0	.0	2.6	.0	3.7	.0	.0	.0	3.7



TABLE 18

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

HGT	S					TOT PCT
	1-3	4-10	11-21	22-33	34-47	
<1	.0	.0	.0	.0	.0	.0
1-2	.0	1.3	.0	.0	.0	.0
3-4	.0	.6	.0	.0	.0	.0
5-6	.0	.7	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0
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
TOT PCT	.6	2.6	.0	.0	.0	3.1

HGT	M					TOT PCT
	1-3	4-10	11-21	22-33	34-47	
<1	2.7	5.5	.0	.0	.0	.0
1-2	.0	6.1	2.2	.0	.0	.0
3-4	.0	1.8	1.5	.0	.0	.0
5-6	.0	.0	1.3	.0	.0	.0
7	.0	.0	.0	.0	.0	.0
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
TOT PCT	2.6	13.4	5.0	.0	.0	21.1

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

JUNE

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT				
<1	25.2	17.2	.0	.0	.0	.0	42.3				
1-2	3.1	19.0	4.3	.0	.0	.0	26.4				
3-4	.0	10.4	3.6	.0	.0	.0	19.0				
5-6	.0	1.8	5.5	.6	.0	.0	R.O				
7	.0	.0	2.5	.0	.0	.0	2.5				
8-9	.0	.0	.0	.6	.0	.0	.6				
10-11	.0	.0	.0	.0	.0	.0	.0				
12	.0	.0	.0	.6	.0	.0	.6				
13-16	.0	.0	.0	.0	.0	.0	.0				
17-19	.0	.0	.0	.0	.0	.0	.0				
20-22	.0	.0	.0	.0	.0	.0	.0				
23-25	.0	.0	.0	.0	.0	.0	.0				
26-32	.0	.0	.0	.0	.0	.0	.0				
33-40	.0	.0	.0	.0	.0	.0	.0				
41-48	.0	.0	.0	.0	.0	.0	.0				
49-60	.0	.0	.0	.0	.0	.0	.0				
61-70	.0	.0	.0	.0	.0	.0	.0				
71-86	.0	.0	.0	.0	.0	.0	.0				
87+	.0	.0	.0	.0	.0	.0	.0				
TOT PCT	28.2	48.5	21.5	1.8	.0	.0	100.0	163			

TABLE 19

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

PERIOD (SEC)	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)										TOTAL	MEAN HGT											
	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19			20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+		
<1	2.7	25.8	15.2	3.7	.8	.2	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	306	2	
6-7	.0	.6	3.5	1.7	1.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	37	4
8-9	.0	.0	.4	.4	1.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	6
10-11	.0	.2	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	7
12-13	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	11
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
INDET	24.9	3.3	.6	1.2	.8	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	160	1
TOTAL	195	155	102	36	19	3	5	4	0	0	0	0	0	0	0	0	0	0	0	0	0	519	2
PCT	37.6	29.9	19.7	6.9	3.7	.6	1.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	0

JULY

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1910-1970

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 1  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

W.D. DIR	RAIN SHWR	RAIN SHWR	DFZL FCPN	PRECIPITATION TYPE			HAIL PCPN	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA						TOTAL OBS
				FRZ PCPN	SNOW PCPN	OTHER FRZN PCPN					FG NO	SMOKE NO	HAZE NO	BLWG BLWG	OUST OUST	SIG SIG	
N	.0	.1	.0	.0	.0	.0	.0	.1	0	.0	.2	1.0	1.0	2.0	2.0	33	
NE	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.1	.2	.1	1.4	13		
E	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	1.0	.6	3.5	30		
SE	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.1	2.1	.6	3.8	46		
S	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	1.2	.5	3.2	26		
SW	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.1	3.7	.0	4.1	23		
W	.0	.0	.0	.0	.0	.0	.0	.0	0	.2	.1	6.9	1.8	15.2	150		
NW	.0	.0	.0	.0	.0	.0	.0	.0	0	.2	.4	6.9	3.9	24.8	255		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0		
CALM	.0	.0	.0	.0	.0	.0	.0	.0	0	.3	.4	3.0	1.1	9.2	98		
TOT OBS	.0	.1	.0	.0	.0	.0	.0	.0	1	.3	1.1	16.0	6.0	84	707		
TOT PCT	.0	.1	.0	.0	.0	.0	.0	.1		.4	1.6	19.8	9.6	68.3	100.0		

TABLE 2  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN SHWR	RAIN SHWR	ORCL	PRECIPITATION TYPE			HAIL PCPN	PCT FREQ PCPN AT PB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA						TOTAL OBS
				FRZ PCPN	SNOW PCPN	OTHER FRZN PCPN					FG NO	SMOKE NO	HAZE NO	BLWG BLWG	OUST OUST	SIG SIG	
0000	.0	.5	.0	.0	.0	.0	.0	.5	1	.5	1.1	20.2	3.6	67.9	187		
0600	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	1.7	21.0	10.8	65.2	176		
1200	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	1.5	16.2	9.6	72.7	198		
1800	.0	.0	.0	.0	.0	.0	.0	.0	0	1.0	2.0	19.6	9.5	67.8	199		
TOT	.0	.1	.0	.0	.0	.0	.0	.1	1	.7	12	147	75	522	760		
PCT	.0	.1	.0	.0	.0	.0	.0	.1		.4	1.3	19.3	9.9	68.7	100.0		

JULY

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1910-1970

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPO	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	1.8	2.3	1.4	.2	.0	.0	48	5.7	7.6	5.5	20.0	5.7	14.2	3.1	10.5	6.3	4.5
NE	.8	1.2	.4	.0	.0	.0	17	2.0	4.8	2.4	7.0	2.3	1.7	.9	10.5	1.6	.0
E	.8	3.4	.7	.0	.0	.0	41	4.9	6.5	3.3	15.0	9.3	5.0	4.0	.0	3.8	.0
SE	1.1	4.5	.5	.0	.0	.0	51	6.0	5.9	4.3	.0	6.8	5.0	9.2	.0	5.5	4.5
S	1.0	3.5	.5	.0	.0	.0	43	5.0	6.0	5.7	.0	4.5	6.7	6.0	.0	4.5	4.5
SW	5.5	2.9	.7	.0	.0	.0	42	5.0	6.0	6.6	10.0	3.1	5.0	6.3	2.6	3.1	9.1
W	3.0	14.5	4.4	.2	.0	.0	189	22.1	8.2	24.2	5.0	18.9	21.2	25.0	24.7	25.8	25.8
NW	4.1	19.7	11.1	.6	.0	.0	304	35.5	9.2	31.0	35.0	36.2	30.8	38.1	35.5	38.5	27.3
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	13.8	165	9	9	0	0	118	13.8	.0	16.6	10.0	13.1	13.3	11.3	15.8	12.0	27.3
TOT OBS	237	446	165	19.3	1.1	.0	837	100.0	6.9	187	10	185	30	204	19	191	33
TOT PCT	27.7	52.0	19.3	1.1	.0	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+	48+				00	03	06	09	12	15	18	21
N	3.0	2.3	.4	.0	.0	.0	48	5.7	7.6	6.2	6.2	6.9	3.7	6.0	6.0	6.0	6.0
NE	1.5	.5	.0	.0	.0	.0	17	2.0	4.8	2.9	2.9	2.2	1.7	1.3	1.3	1.3	1.3
E	5.2	1.5	.1	.0	.0	.0	41	4.9	6.5	3.9	3.9	8.7	3.7	3.2	3.2	3.2	3.2
SE	4.3	1.7	.1	.0	.0	.0	51	6.0	5.9	4.1	4.1	6.6	6.4	4.9	4.9	4.9	4.9
S	3.9	.9	.3	.0	.0	.0	43	5.0	6.0	5.7	5.7	4.8	5.5	4.5	4.5	4.5	4.5
SW	3.4	1.5	.1	.0	.0	.0	42	5.0	6.0	6.7	6.7	3.4	5.9	4.0	4.0	4.0	4.0
W	9.2	11.7	1.2	.0	.0	.0	189	22.1	8.2	23.2	23.2	18.8	21.5	24.9	24.9	24.9	24.9
NW	12.8	18.8	3.8	.1	.0	.0	304	35.5	9.2	31.2	31.2	35.4	37.9	36.8	36.8	36.8	36.8
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	13.8	33.9	5.1	1	0	0	118	13.8	.0	16.2	16.2	13.1	11.7	14.3	14.3	14.3	14.3
TOT OBS	472	38.9	6.0	1	0	0	837	100.0	5.9	197	197	213	223	224	224	224	224
TOT PCT	55.1	38.9	6.0	1	0	0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

JULY

PERIOD (PRIMARY) 1947-1970  
(OVER-ALL) 1910-1970

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)				PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33		
0603	16.2	14.2	52.8	14.7	2.0	.0	197
0609	13.2	19.2	49.8	17.4	.5	.0	213
1215	11.7	9.4	52.0	26.5	.4	.0	223
1821	14.3	12.9	53.6	17.9	1.3	.0	224
TOT	118	119	446	165	6	0	857
PCT	13.8	13.9	52.0	19.3	1.1	.0	100.0

TABLE 5

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

WIND DIR	0-2		3-4		5-7		8-4		TOTAL OBS	MEAN CLOUD COVER
	C-2	3-4	5-7	8-4	OBS	4				
N	3.8	.3	.1	.3	.1	.3	.3	.26	1.0	
NE	1.5	.2	.4	.4	.4	.4	.4	12	1.7	
E	4.5	.6	.2	.3	.2	.3	.3	32	1.1	
SE	6.2	.6	.3	.4	.4	.4	.4	44	1.0	
S	5.2	.0	.5	.2	.2	.34	.34	31	1.0	
SW	4.6	.4	.4	.0	.4	.0	.31	31	.9	
W	18.8	.7	.6	1.1	.6	1.1	1.1	123	.8	
NW	31.2	1.2	1.7	.5	.7	.5	.5	201	.7	
VAR	1.0	.0	.0	.0	.0	.0	.0	0	.0	
CALM	12.1	.5	.5	.3	.3	.3	.3	79	.6	
TOT OBS	515	26	27	17	585	17	585	100.0	.8	
TOT PCT	88.0	4.4	4.6	2.9	100.0	2.9	100.0			

TABLE 6

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

WIND DIR	000		150		300		600		1000		2000		3500		5000		6500		8000+		NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999	8999	9999	10999	11999	12999	13999	14999	15999	16999	17999			
N	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	44
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	44
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31
W	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	123
NW	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	201
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	79
TOT OBS	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	585
TOT PCT	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1910-1970

JULY

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 7

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

CEILING (FEET)	OR		OR		OR		OR		OR	
	>10	>5	>2	>1	>1/2	>1/4	>50YC	>0	>0	>0
OR >6500	.2	1.3	1.9	1.9	1.7	1.9	1.9	1.9	1.9	1.9
OR >5000	.2	1.3	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
OR >3500	.3	1.6	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
OR >2000	.1	2.1	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
OR >1000	1.1	2.8	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
OR >300	1.1	2.8	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
OR >150	1.1	2.8	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
TOTAL	1.7	1.8	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3

TOTAL NUMBER OF OBS 632

PCT FREQ NH <5/81

95.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL
80.5	7.8	2.9	1.2	1.0	.1	.5	1.8	1.5	.9	658

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1910-1970

JULY

AREA 0023 N. E. PERSIAN GULF  
27:2N 51.8E

TABLE 8  
PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSSY (MM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.1	.1	.0	.1	.4	.4
TOT %	.0	.0	.0	.0	.0	.0	.1	.1	.0	.1	.4	
1/2<1 NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.7	.7
TOT %	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.7	
1<2 NO PCP	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.5	.1	.1	.0	.0	.0	1.1	1.8	.0	.1	3.7	3.7
TOT %	.5	.1	.1	.0	.0	.0	1.1	1.8	.0	.1	3.7	
2<3 NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.8	.1	.2	.7	.7	.4	1.5	3.9	.0	1.1	9.5	9.5
TOT %	.8	.1	.2	.7	.7	.4	1.5	3.9	.0	1.1	9.5	
3<10 NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	2.0	.9	2.4	3.3	2.1	2.1	7.0	10.6	.0	6.0	36.3	36.3
TOT %	2.0	.9	2.4	3.3	2.1	2.1	7.0	10.6	.0	6.0	36.3	
10+ NO PCP	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	1.7	.8	2.4	2.7	2.3	2.6	11.5	19.0	.0	6.4	49.2	49.2
TOT %	1.8	.8	2.4	2.7	2.3	2.6	11.5	19.0	.0	6.4	49.2	
TOT OBS	5.0	2.0	5.2	6.6	5.1	5.0	21.1	36.2	.0	13.9	100.0	705
TOT PCT												

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1910-1970

JULY

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL DBS
1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.1	.1	.0	.1	.4	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
	4-10	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6	
1<2	0-3	.1	.1	.0	.0	.0	.0	.0	.2	.0	.1	.5	
	4-10	.3	.0	.0	.0	.0	.0	.8	1.2	.0	.0	2.3	
	11-21	.2	.0	.0	.0	.0	.0	.0	.2	.0	.0	.4	
	TOT %	.6	.1	.0	.0	.0	.0	.1	1.7	.0	.1	3.4	
2<5	0-3	.1	.1	.0	.0	.0	.3	.3	.8	.0	1.0	2.5	
	4-10	.6	.1	.4	.5	.1	.6	.6	1.8	.0	.0	4.3	
	11-21	.2	.0	.1	.2	.1	.4	.4	1.2	.0	.0	2.3	
	TOT %	1.0	.3	.2	.6	.5	1.3	3.8	3.8	.0	1.0	9.3	
5<10	0-3	.7	.4	.3	.6	.4	.8	1.1	1.0	.0	5.6	10.9	
	4-10	.7	.6	1.7	2.1	1.6	.8	4.4	5.8	.0	.0	17.6	
	11-21	.3	.0	.3	.3	.3	.2	1.2	3.0	.0	.0	5.3	
	TOT %	1.7	.9	2.2	3.0	2.3	1.8	6.6	10.1	.0	5.6	34.3	
10+	0-3	.8	.3	.5	.5	.7	.5	1.8	2.1	.0	7.3	14.4	
	4-10	.7	.6	1.5	2.1	1.3	2.1	8.1	11.3	.0	.0	28.2	
	11-21	.7	.4	.3	.2	.1	.4	2.2	5.4	.0	.0	9.4	
	TOT %	2.3	.8	2.7	2.8	2.1	2.9	12.1	19.0	.0	7.3	52.1	
TOT DBS												799	
TOT PCT		5.5	2.1	5.2	6.4	5.0	5.2	21.1	35.3	.0	14.1	100.0	



STATION (PRIMARY) 1947-1970  
(OVER-ALL) 1910-1970

JULY

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 10  
PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GHT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL NH < 5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	.0	2.5	.6	.6	.6	.0	.6	5.0	160
06005	.7	.0	.0	.0	.0	.0	.7	.0	.7	2.6	4.6	151
12015	1.1	.0	.0	.0	1.1	1.1	.0	.0	.0	2.3	5.7	174
18021	.0	.0	.0	.0	.0	.6	.0	.0	.0	1.2	1.8	163
TOT	3	0	0	0	6	4	2	1	1	11	28	648
PCT	.5	.0	.0	.0	.9	.6	.3	.2	.2	1.7	4.3	93.7

TABLE 11

PERCENT FREQUENCY VS8Y (NH) BY HOUR

HOUR (GHT)	<1/2	1/2<1	1-2	2<5	5<10	10+	TOTAL OBS
00003	.6	.6	1.3	7.7	35.9	53.8	156
06009	1.3	.7	3.3	12.0	34.7	48.0	150
12015	.0	.6	1.2	7.1	32.1	58.9	168
18021	.5	.0	1.2	6.8	39.8	51.6	161
TOT	4	3	1.1	53	226	338	635
PCT	.6	.5	1.7	8.3	35.6	53.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS8Y (NH) AND/OR  
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GHT)	<150	<600	<1000	1000+	NH < 5/8 AND 5+	TOTAL OBS
00003	.6	1.3	10.3	10.3	10.3	156
06009	1.3	2.7	17.3	17.3	17.3	150
12015	.6	1.2	8.9	8.9	8.9	168
18021	.6	1.2	8.7	8.7	8.7	161
TOT	5	10	71	71	71	635
PCT	.8	1.6	11.2	11.2	11.2	100.0

JULY

PERIODS: (PRIMARY) 1947-1970  
(OVER-ALL) 1910-1970

AREA 0023 N.E. PERSIAN GULF  
27.2N 51.8E

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
100/104	.0	.2	.0	.0	.4	.0	.0	.0	3	.5
95/99	.0	.0	.5	1.2	3.4	2.5	.0	.0	43	7.6
90/94	.0	.0	.2	2.3	14.5	22.1	11.7	4.9	313	55.7
85/89	.0	.0	.0	1.2	3.4	9.4	15.7	5.1	197	34.8
80/84	.0	.0	.0	.0	.0	.5	.4	.5	8	1.4
TOTAL	.0	.1	.4	.7	12.2	10.5	19.7	6.0	564	100.0
PCT	.0	.2	.7	4.8	21.6	34.5	27.7	10.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

TEMP F	N	NE	E	SE	S	SW	W	NW	VAR	CALM
100/104	.0	.0	.0	.0	.0	.0	.0	.4	.0	.2
95/99	.6	.1	.6	.6	.4	.2	1.6	2.8	.0	.7
90/94	2.6	1.1	3.4	3.5	2.9	2.1	13.3	20.5	.0	6.7
85/89	2.0	.7	1.8	2.8	2.2	2.4	6.2	12.0	.0	4.8
80/84	.1	.2	.0	.1	.2	.1	.4	.4	.0	.0
TOTAL	2.9	1.1	3.2	3.9	3.0	2.7	12.1	20.4	.0	7.0
PCT	5.2	2.0	5.8	7.0	5.3	4.8	21.5	36.1	.0	12.4

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL DBS
00003	94	94	92	89	85	83	83	83	88.5	216
06009	99	97	95	91	86	85	84	84	90.8	209
12015	104	102	98	92	88	85	84	84	92.6	216
18021	95	94	93	89	85	84	84	84	89.2	234
TOT	104	99	95	90	86	84	83	83	90.3	875

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
00003	.0	3.4	11.6	29.9	39.5	15.6	80	147
06009	.0	2.9	27.0	38.0	24.1	8.0	75	137
12015	.0	9.9	32.1	39.7	11.9	5.2	71	151
18021	.0	5.1	12.8	30.1	40.4	11.2	79	156
TOT	0	32	124	203	172	60	76	591

PERIOD: (PRIMARY) 1947-1970  
 (OVER-ALL) .910-1970

JULY

AREA 0023 N. E. PERSIAN GULF  
 27.2N 51.8E

TABLE 17

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

AIR-SEA TMP DIF	81	85	89	93	TOT	M	NO
	84	88	92	96	FOG	FOG	FOG
14/16	.0	.0	.0	.2	5	.0	.5
11/13	.0	.0	.5	.5	18	.0	1.9
9/10	.0	.3	.5	.5	16	.0	1.9
7/8	.0	.3	.6	1.5	28	.0	3.6
6	.0	.0	.3	1.6	12	.0	1.9
5	.0	.6	1.6	2.3	28	.2	4.4
4	.0	1.1	4.4	3.6	62	.3	9.2
3	.0	.6	7.0	2.9	67	.2	10.5
2	.3	2.1	9.4	1.6	33	.2	13.3
1	.0	1.9	7.1	.3	58	.5	4.9
0	.8	5.7	9.5	.8	104	.5	16.3
-1	.3	3.2	4.4	.2	50	.0	8.1
-2	.2	3.7	2.4	.0	39	.2	6.1
-3	.2	2.4	2.9	.0	34	.0	5.5
-4	.0	1.0	.2	.0	7	.0	1.1
-5	.0	.5	.0	.0	3	.0	.5
-6	.0	.6	.0	.0	4	.0	.6
TOTAL	11	151	314	98	618	12	584
PCT	1.8	24.4	50.8	15.9	100.0	1.9	94.5

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

JULY

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.5E

TABLE 16

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

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

HGT	E					SE					PCT	
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33		34-47
<1	.7	3.3	.0	.0	.0	.0	2.2	1.9	.0	.0	.0	.0
1-2	.0	1.3	.0	.0	.0	.0	.0	2.2	.7	.0	.0	.0
3-4	.0	.0	1.3	.0	.0	.0	.0	.0	.9	.0	.0	.0
5-6	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	4.6	2.0	.0	.0	.0	2.2	4.1	1.7	.0	.0	4.0

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

HGT	S				SW				TOT PCT	
	1-3	4-10	11-21	22-33	34-47	48+	PCT	48+		PCT
<1	1.9	3.5	.0	.0	.0	.0	5.4	.0	2.0	2.0
1-2	.0	1.1	.0	.0	.0	1.1	.0	.0	.0	1.1
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.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
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	4.6	.0	.0	.0	.0	5.5	.0	2.0	3.1

HGT	W				NW				TOT PCT	
	1-3	4-10	11-21	22-33	34-47	48+	PCT	48+		PCT
<1	3.9	6.3	.0	.0	.0	.0	10.2	.0	1.9	9.6
1-2	.7	13.7	1.9	.0	.0	.0	16.3	.0	.7	15.2
3-4	.0	.0	1.9	.0	.0	.0	1.9	.0	.0	8.1
5-6	.0	.0	1.7	.0	.0	.0	1.7	.0	.0	5.7
7	.0	.0	.7	.0	.0	.0	.7	.0	.0	.0
8-9	.0	.0	.0	.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
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.6	20.0	6.1	.0	.0	.0	30.7	.0	2.6	36.7

PERIODI (PRIMARY)  
(OVER-ALL) 1963-1970

JULY

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT				
<1	29.8	19.3	.0	.0	.0	.0	49.1				
1-2	2.9	26.3	4.1	.0	.0	.0	33.3				
3-4	.0	2.3	7.6	.6	.0	.0	10.5				
5-6	.0	.6	5.8	.0	.0	.0	6.4				
7	.0	.0	.6	.0	.0	.0	.6				
8-9	.0	.0	.0	.0	.0	.0	.0				
10-11	.0	.0	.0	.0	.0	.0	.0				
12	.0	.0	.0	.0	.0	.0	.0				
13-16	.0	.0	.0	.0	.0	.0	.0				
17-19	.0	.0	.0	.0	.0	.0	.0				
20-22	.0	.0	.0	.0	.0	.0	.0				
23-25	.0	.0	.0	.0	.0	.0	.0				
26-32	.0	.0	.0	.0	.0	.0	.0				
33-40	.0	.0	.0	.0	.0	.0	.0				
41-48	.0	.0	.0	.0	.0	.0	.0				
49-60	.0	.0	.0	.0	.0	.0	.0				
61-70	.0	.0	.0	.0	.0	.0	.0				
71-86	.0	.0	.0	.0	.0	.0	.0				
87+	.0	.0	.0	.0	.0	.0	.0				
TOT PCT	32.7	48.5	18.1	.6	.0	.0	100.0	171			

TABLE 19

PERIOD (SEC)	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)										87+ TOTAL	MEAN HGT										
	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19			20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86		
<6	14.0	21.2	10.4	3.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	242	2
6-7	.2	1.3	3.4	3.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	43	4
8-9	.0	.4	.6	.2	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	4
10-11	.0	.6	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	3
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
INDEX	30.6	5.2	3.2	.6	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	200	1
TOTAL	224	144	89	35	5	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	500	2
PCT	44.8	28.8	17.8	7.0	1.0	.4	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	100.0	0

AUGUST

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1907-1970

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.6E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN DBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL DBS		
	DRZL PCPN	FRZG PCPN	SNOW PCPN					OTHER PCPN	FG	SMOKE	HAZE	BLKG		SNOW	NEA
N	.0	.0	.0	.0	.0	0	.0	.4	.0	.0	.0	.0	.0	5.8	46
NE	.0	.0	.0	.0	.0	0	.0	.3	.0	.0	.0	.0	.0	2.7	21
E	.0	.0	.0	.0	.0	0	.0	.6	.0	.0	.0	.0	.0	3.6	45
SE	.0	.0	.0	.0	.0	0	.0	.7	.1	.0	.0	.0	.0	7.7	61
S	.0	.0	.0	.0	.0	0	.0	.4	.0	.0	.0	.0	.0	4.2	32
SW	.0	.0	.0	.0	.0	0	.0	1.4	.0	.0	.0	.0	.0	3.0	46
W	.0	.0	.0	.0	.0	0	.0	1.9	.1	.0	.0	.0	.0	16.2	124
NW	.0	.0	.0	.0	.0	0	.0	2.8	.7	.0	.0	.0	.0	29.4	239
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	0	.0	1.5	.4	.0	.0	.0	.0	9.5	86
TOT DBS	.0	.0	.0	.0	.0	0	.0	172	.0	.0	.0	.0	.0	17	714
PCT	.0	.0	.0	.0	.0	0	.0	10.1	1.4	.0	.0	.0	.0	86.1	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN DBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL DBS		
	RAIN SHWR	ORZL PCPN	FRZG PCPN					SNOW PCPN	OTHER PCPN	FG	SMOKE	HAZE		BLKG	SNOW
0000	.0	.0	.0	.0	.0	0	.0	1.2	10.2	.0	.0	.0	.0	85.2	164
0600	.0	.0	.0	.0	.0	0	.0	1.9	10.0	.0	.0	.0	.0	87.2	211
1200	.0	.0	.0	.0	.0	0	.0	1.5	9.8	.0	.0	.0	.0	86.3	204
1800	.0	.0	.0	.0	.0	0	.0	1.6	11.0	.0	.0	.0	.0	83.9	191
TOT	.0	.0	.0	.0	.0	0	.0	10	79	.0	.0	.0	.0	666	772
PCT	.0	.0	.0	.0	.0	0	.0	1.9	10.2	.0	.0	.0	.0	86.3	100.0

AUGUST

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1907-1970

AREA 0023 N. E. PERSIAN GULF  
27.3N 51.6E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)											
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPO	00	03	06	09	12	15	18	21					
N	.9	4.3	1.6	#	.0	.0	71	6.8	8.3	10.1	1.9	7.9	8.0	4.0	9.2	5.1	3.8					
NE	.6	2.1	#	#	.0	.0	29	2.8	3.5	2.5	.0	3.3	3.0	1.3	2.0	4.8	1.5					
E	1.6	4.1	.2	.0	.0	.0	62	5.9	5.5	7.8	3.8	6.3	3.0	4.8	10.2	4.9	6.1					
SE	1.7	5.5	.7	.0	.0	.0	83	7.9	5.9	5.3	3.8	9.7	5.2	11.8	3.1	6.1	8.3					
S	1.8	3.1	.4	.0	.0	.0	55	5.3	4.9	2.9	3.8	5.7	8.2	3.1	3.5	6.8						
SW	1.8	4.7	.5	.0	.0	.0	73	7.0	5.8	5.4	1.9	5.3	3.0	10.0	9.2	7.3	9.1					
W	2.8	13.9	4.1	#	.0	.0	218	20.8	7.6	18.8	48.1	16.3	13.9	24.4	27.0	20.2	22.7					
NW	3.2	19.1	8.8	#	.0	.0	328	31.3	8.7	30.6	32.7	33.9	33.2	24.9	26.0	37.1	26.3					
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
CALM	12.0	594	171	5	0	0	126	12.0	.0	15.5	3.8	11.5	13.2	9.7	10.2	11.0	13.2					
TOT OBS	277	56.7	16.3	.5	.0	.0	1047	6.5	6.5	206	26	216	66	207	49	209	66					
TOT PCT	26.5	56.7	16.3	.5	.0	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0					

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)											
	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPO	00	03	06	09	12	15	18	21						
N	2.8	3.6	.5	.0	.0	71	6.8	8.3	9.2	9.2	7.9	8.0	5.7	4.8	4.8	4.0						
NE	2.0	1.7	.1	.0	.0	29	2.8	3.5	2.3	2.3	3.3	3.0	1.5	4.0	4.8	1.5						
E	4.3	1.6	.0	.0	.0	62	5.9	5.5	7.3	7.3	5.3	5.9	5.9	5.2	4.9	5.2						
SE	5.6	2.3	.0	.0	.0	83	7.9	5.9	5.2	5.2	9.4	10.2	6.6	6.6	6.6	6.6						
S	4.4	.8	.0	.0	.0	55	5.3	4.9	3.0	3.0	6.3	7.2	4.3	4.3	4.3	4.3						
SW	5.0	2.0	.1	.0	.0	73	7.0	5.8	5.9	5.9	4.8	9.9	7.7	7.7	7.7	7.7						
W	10.1	10.1	.4	.0	.0	218	20.8	7.6	22.1	22.1	16.2	24.9	20.8	20.8	20.8	20.8						
NW	10.4	20.2	.8	.0	.0	328	31.3	8.7	30.8	30.8	34.2	25.1	34.5	34.5	34.5	34.5						
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0						
CALM	12.0	594	171	5	0	126	12.0	.0	14.2	14.2	12.3	9.8	12.0	12.0	12.0	12.0						
TOT OBS	593	432	22	0	0	1047	6.5	6.5	232	232	244	256	275	275	275	275						
TOT PCT	56.6	41.3	1.1	.0	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0						



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PERIOD: (PRIMARY: 1947-1970  
(OVER-ALL) 1907-1970

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)				PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33		
0000	14.2	15.9	53.0	.4	.0	6.3	100.0
0600	12.3	15.8	51.4	.0	.0	6.5	100.0
1200	9.8	12.1	64.5	.8	.0	6.5	100.0
1800	12.0	13.8	58.2	.7	.0	6.5	100.0
TOT	12.6	15.1	59.4	5	0	6.5	1047
PCT	12.0	14.4	56.7	16.3	.5	6.5	100.0

TABLE 5

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

WIND DIR	PCT FREQ										TOTAL OBS	MEAN CLOUD COVER	
	0-2	3-4	5-7	8-9	10-12	13-17	18-24	25-32	33-47	48+			
NE	6.6	.0	.2	.2	.4	.4	.4	.4	.4	.4	.4	43	.4
SE	2.6	.4	.0	.0	.5	.5	.5	.5	.5	.5	.5	18	.5
EE	5.3	.5	.3	.0	.3	.8	.8	.8	.8	.8	.8	38	.8
S	7.3	.4	.5	.2	.5	.8	.8	.8	.8	.8	.8	52	.8
SW	4.5	.2	.2	.0	.2	.5	.5	.5	.5	.5	.5	30	.5
W	6.2	.2	.1	.2	.2	.6	.6	.6	.6	.6	.6	42	.6
NW	17.8	.8	.8	.2	.8	.2	.4	.4	.4	.4	.4	123	.4
VAR	31.0	.3	.5	.3	.3	.4	.4	.4	.4	.4	.4	203	.4
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOT OBS	11.7	.2	.6	.0	.6	.7	.7	.7	.7	.7	.7	79	.7
TOT PCT	58.5	18	20	6	6	6	6	6	6	6	6	632	6
	93.0	2.8	3.2	.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	100.0	1.9

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH > 478)  
AND OCCURRENCE OF NH < 578 BY WIND DIRECTION

WIND DIR	PERCENTAGE FREQUENCY										TOTAL OBS	NH < 578	NH < 578 TOTAL	
	000	1-15	150	200	300	400	500	600	700	800+				
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	43
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18
EE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	52
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	123
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	203
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOT OBS	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	79
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	93
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1947-1970  
 (OVER-ALL) 1907-1970

AUGUST

AREA 0023 N. E. PERSIAN GULF  
 27.3N 51.0E

TABLE 7  
 CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
 OF CEILING HEIGHT (NH >478) AND VSBY (NH)

CEILING (FEET)	>10		>5		>2		>1		>1.2		>1.4		>50YD		CR	
	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR
OR >5000	.3	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6
OR >3500	.4	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9
OR >2000	.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
OR >1000	.7	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
OR >600	.9	1.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
OR >150	.9	1.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
OR > 0	.9	1.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
TOTAL	.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5

TOTAL NUMBER OF OBS: 681

PCT FREQ NH <578: 97.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL
OBS	10.1	2.6	1.0	1.5	.6	.6	.2	.5	.0	.0	841

PERIOD: (PRIMARY) 1947-1970  
 (OVER-ALL) 1907-1970

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AREA 0022 N. E. PERSIAN GULF  
 27.3N 91.6E

TABLE 8  
 PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
 PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	PCP NO PCP TOT %	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP NO PCP TOT %	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0
1/2<1	PCP NO PCP TOT %	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.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<2	PCP NO PCP TOT %	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.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<5	PCP NO PCP TOT %	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0
5<10	PCP NO PCP TOT %	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0
10+	PCP NO PCP TOT %	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0
TOT OBS	TOT PCT	6.6	3.0	6.6	5.6	4.5	6.4	18.9	33.5	.0	12.1	100.0	712

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1907-1970

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AREA 0023 N. E. PERSIAN GULF  
27.3N 51.6E

TABLE 9

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

VSBY (SM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
	4-10	.0	.0	.0	.0	.0	.0	.2	.1	.0	.0	.2	.2
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.2	.1	.0	.1	.3	.3
1/2	0-3	.1	.0	.0	.0	.0	.1	.2	.1	.0	.2	.5	.5
	4-10	.0	.0	.0	.0	.0	.1	.1	.3	.0	.0	.4	.4
	11-21	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4	.4
	TOT %	.1	.0	.0	.0	.0	.1	.2	.7	.0	.2	1.3	1.3
2/5	0-3	.0	.1	.2	.1	.0	.1	.6	.7	.0	.5	1.0	1.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4	.4
	11-21	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1
	TOT %	.0	.1	.2	.1	.0	.1	.6	1.4	.0	.5	4.0	4.0
5/10	0-3	.2	.1	.6	.9	.5	1.3	.8	.8	.0	3.7	8.6	8.6
	4-10	.0	.0	.1	1.0	.6	3.9	4.4	.0	.0	14.6	14.6	14.6
	11-21	.1	.0	.1	.0	.1	1.0	2.2	.0	.0	3.6	3.6	3.6
	TOT %	1.2	.4	1.6	2.8	1.4	6.3	7.4	7.4	.0	3.7	27.0	27.0
100	0-3	.7	1.1	1.1	7	1.3	1.2	1.3	2.1	.0	7.2	16.1	16.1
	4-10	3.2	1.9	3.1	3.4	1.5	2.4	9.4	13.9	.0	38.7	38.7	38.7
	11-21	1.6	.1	.1	.7	.4	.4	3.0	6.2	.0	12.4	12.4	12.4
	TOT %	5.5	2.5	4.2	4.7	3.2	3.9	13.6	22.4	.0	7.2	67.4	67.4
TOT OBS												975	
TOT PCT		7.0	3.0	6.2	7.8	4.7	6.7	21.1	31.9	.0	11.7	100.0	

PERIOD (PRIMARY) 1947-1970  
(OVER-ALL) 1907-1970

AUGUST

AREA 0023 N. E. PERSIAN GULF  
27.3N 51.0E

TABLE 10

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

HOUR (GMT)	000	150	300	450	600	750	900	1050	1200	1350	1500	1650	1800	TOT	PCT	AN <5/8 ANY NGT	TOTAL	AN <5/8 ANY NGT	TOTAL OBS
0000Z	.0	.0	.0	.0	.5	.0	.5	.0	1.1	.0	.5	.0	.5	2.7		97.3	188		
0600Z	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.5	.0	.5	1.8		98.2	217		
1201Z	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.5	.0	.5	.9		99.1	215		
1802Z	.0	.0	.0	.0	.0	.0	.5	.5	.5	.5	.0	.5	.5	2.3		97.7	219		
TOT	0	0	0	1	1	4	4	4	4	1	2	2	2	16		823	836		
PCT	.0	.0	.0	.1	.1	.5	.5	.5	.5	.1	.2	.2	.2	1.9		98.1	100.0		

TABLE 11

PERCENT FREQUENCY VSBY (NN) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0000Z	.0	.0	1.4	4.9	24.3	69.4	144
0600Z	.0	.0	1.1	4.8	21.5	72.6	186
1201Z	.0	.5	.0	5.4	23.6	70.3	185
1802Z	.0	.0	.6	3.0	25.3	71.1	166
TOT	0	1	5	31	161	483	681
PCT	.0	.1	.7	4.0	23.6	70.9	100.0

TABLE 12

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

HOUR (GMT)	<150 CEILING NGT <5070	<600 <1000 <5	>1000 <4/8	AN <5/8 ANO 5+	TOTAL OBS
0000Z	.0	.0	6.9	2.8	90.3
0600Z	.0	.0	5.9	1.6	92.5
1201Z	.0	.5	5.9	1.1	93.0
1802Z	.0	.0	3.6	3.0	93.4
TOT	0	1	38	14	629
PCT	.0	.1	5.6	2.1	92.4

AUGUST

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1907-1970

AREA C023 N. E. PERSIAN GULF  
27.3N 51.6E

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
100/104	.0	.0	.0	.7	.1	.1	.0	.0	7	1.0
95/99	.0	.0	.4	3.5	9.2	6.5	1.2	.3	152	21.1
90/94	.0	.0	.0	2.6	13.6	26.4	22.5	3.7	511	70.9
85/89	.0	.0	.0	.3	.4	.7	4.4	1.1	50	6.9
80/84	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
TOTAL	0	0	3	51	168	258	204	37	721	100.0
PCT	.0	.0	.4	7.1	23.3	35.8	28.3	5.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

TEMP F	N	NE	E	SE	S	SW	W	NW	VAR	CALM
100/104	.2	.1	.0	.0	.0	.0	.4	.1	.0	.0
95/99	1.5	.4	1.5	1.5	.6	1.5	4.4	7.1	.0	1.9
90/94	5.3	2.2	3.8	5.8	3.1	4.4	16.2	22.9	.0	7.1
85/89	.4	.1	1.0	.5	.1	.4	1.1	1.7	.0	1.5
80/84	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
TOTAL	7.5	3.0	6.3	7.8	3.9	6.4	22.2	32.4	.0	10.5

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	100	95	94	90	86	84	84	84	90.4	243
0600Z	101	99	97	93	89	88	84	84	93.0	283
1200Z	103	103	99	94	91	88	88	88	94.2	256
1800Z	100	98	95	91	88	85	85	85	91.3	287
TOT	10	100	97	92	88	86	84	84	92.3	1069

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.0	1.7	10.2	21.4	49.1	7.4	80	175		
0600Z	.0	8.1	28.9	35.0	22.8	5.1	73	197		
1200Z	.0	13.8	34.9	40.2	9.5	70	169			
1800Z	.0	5.2	15.0	33.3	33.0	77	206			
TOT	0	56	172	281	217	41	75	767		

AREA 0023 N. E. PERSIAN GULF  
27.3N 51.6E

AUGUST

TABLE 17

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1907-1970

PCT 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		59		53		TOT		W		WD	
	84	88	88	92	96	FOG	FOG	FOG	FOG	FOG	FOG	
11/13	.0	.0	.0	.0	.3	.0	2	.0	.0	.0	.3	
9/10	.0	.0	.0	.3	.3	.0	16	.0	.0	.0	1.5	
7/8	.0	.0	.0	.2	.3	.0	41	.3	.0	.0	3.0	
6	.0	.0	.0	.2	1.2	.0	17	.0	.0	.0	2.0	
5	.0	.0	.0	.5	1.6	.0	26	.0	.0	.0	3.0	
4	.0	.0	.0	1.1	3.5	.0	40	.2	.0	.0	5.1	
3	.0	.0	.0	2.4	6.8	.0	63	.3	.0	.0	8.9	
2	.0	.0	.0	4.2	7.4	.0	77	.2	.0	.0	11.4	
1	.0	.0	.0	5.6	4.8	.0	73	.0	.0	.0	10.7	
0	.0	.0	.0	8.6	4.2	.0	28	.3	.0	.0	14.0	
-1	.0	.0	.0	9.2	2.6	.0	81	.0	.0	.0	12.2	
-2	.0	.0	.0	7.7	2.3	.0	68	.2	.0	.0	10.1	
-3	.2	.1	.1	2.7	.0	.0	25	.0	.0	.0	3.9	
-4	.0	.3	.2	2.7	.0	.0	20	.0	.0	.0	3.0	
-5	.0	.6	.9	.9	.0	.0	10	.0	.0	.0	1.5	
-6	.0	.0	.0	.2	.0	.0	2	.0	.0	.0	.3	
17/-8	.0	.0	.3	.6	.0	.0	6	.0	.0	.0	.9	
TOTAL	1	23	316	233			665	9	9	1.4	610	
PCT	.2	3.5	47.5	35.0			100.0	1.4	1.4		91.7	

PERIOD: (PRIMARY)  
(COVER=LL) 1963-1970

AUGUST  
TABLE 18

AREA 0023 N. E. PERSIAN GULF  
27.3N 51.6E

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

HGT <1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25 26-32 33-40 41-48 49-60 61-70 71-86 87+	N				NE				TOT PCT					
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3		4-10	11-21	22-33	34-47	48+
<1	.0	1.8	.0	.0	.0	.0	1.8	.0	.0	1.6	.0	.0	.0	2.2
1-2	.0	3.2	1.2	.0	.0	.0	4.4	.0	.0	1.9	.0	.0	.0	2.5
3-4	.0	.5	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.5	1.2	.0	.0	.0	6.7	.0	1.1	3.6	.0	.0	.0	4.7

HGT <1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25 26-32 33-40 41-48 49-60 61-70 71-86 87+	E				SE				TOT PCT					
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3		4-10	11-21	22-33	34-47	48+
<1	.5	1.6	.0	.0	.0	.0	2.1	.0	.0	3.6	.0	.0	.0	4.8
1-2	.5	2.1	.0	.0	.0	.0	2.6	.0	.0	2.7	.0	.0	.0	4.8
3-4	.0	.5	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	4.3	.0	.0	.0	.0	5.4	.0	1.8	6.3	1.2	.0	.0	9.3



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

HGT <1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25 26-32 33-40 41-48 49-50 61-70 71-86 87+	S					SM					PCT	
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33		34-47
1-3	1.5	2.5	1.0	.0	.0	.0	.5	2.5	.0	.0	.0	.0
<1	.0	2.2	1.0	.0	.0	.0	.0	2.5	.0	.0	.0	.0
1-2	.0	.4	.0	.0	.0	.0	.0	1.4	.5	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	5.1	1.0	.0	.0	.0	.5	4.7	.5	.0	.0	5.8

HGT <1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25 26-32 33-40 41-48 49-60 61-70 71-86 87+	M					NM					PCT	
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33		34-47
1-3	1.6	1.8	.0	.0	.0	.0	2.2	4.7	.0	.0	.0	.0
<1	.0	7.8	1.5	.0	.0	.0	1.1	15.0	3.2	.0	.0	.0
1-2	.0	3.0	1.0	.0	.0	.0	.0	1.8	11.1	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.6	.5	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	15.7	2.1	.0	.0	.0	3.3	21.4	15.9	.5	.0	41.2



SEPTEMBER

PERIOD: (PRIMARY) 1936-1970  
(OVER-ALL) 1865-1970

AREA 0023 N. E. PERSIAN GULF  
27.3N 51.7E

TABLE 1  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHHR	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN DBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL DBS
			CRZL PCPN	FRZG PCPN	SNOW					PCPN	PCPN	FOG	SMOKE	DUST	
N	.0	.0	.0	.0	.0	.0	.0	0	.0	.1	.4	.3	5.9	51	
NE	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.3	.0	1.4	12	
E	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.3	.0	4.3	34	
SE	.0	.0	.0	.0	.0	.0	.0	0	.0	.1	.8	.1	7.4	64	
S	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.5	.0	2.8	25	
SW	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.5	.0	4.0	34	
W	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	1.0	.6	18.7	153	
NW	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	2.5	1.8	34.5	294	
VAR	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0	
CALM	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.2	.7	9.9	86	
TOT DBS	.0	.0	.0	.0	.0	.0	.0	0	.0	2	74	27	674	157	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	0	.0	.3	7.1	3.6	89.0	100.0	

TABLE 2  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHHR	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN DBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL DBS
			CRZL PCPN	FRZG PCPN	SNOW					PCPN	PCPN	FOG	SMOKE	DUST	
0000Z	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	4.1	2.6	93.4	196	
0600Z	.0	.0	.0	.0	.0	.0	.0	0	.0	.5	8.0	2.0	89.5	200	
1200Z	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	9.0	4.7	86.3	212	
1800Z	.0	.0	.0	.0	.0	.0	.0	0	.0	1.0	9.9	4.2	84.9	192	
TOT	.0	.0	.0	.0	.0	.0	.0	0	.0	.3	62	27	708	800	
PCT	.0	.0	.0	.0	.0	.0	.0	0	.0	.4	7.8	3.4	88.5	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1936-1970  
(OVER-ALL) 1965-1970

STSA 0023 N. E. PERSIAN GULF  
27.34 51.7E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										WIND DIRECTION BY SPEED AND BY HOUR											
	0-3	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	2.9	2.7	.2	.0	.0	67	6.7	8.6	9.1	.0	6.9	7.9	3.8	5.6	7.5	7.3					
NE	1.0	1.3	.0	.0	.0	.0	23	2.3	4.2	2.6	.0	1.9	3.2	.2	7.4	2.0	6.5					
E	.9	2.9	.2	.0	.0	.0	40	4.0	5.7	4.4	.0	9.1	1.6	1.5	1.9	2.8	4.0					
SE	3.2	5.5	.5	.0	.0	.0	95	9.5	5.2	3.9	11.1	10.2	11.9	13.7	11.1	7.2	14.5					
S	1.5	2.7	.3	.0	.0	.0	46	4.6	5.8	2.9	5.6	4.9	4.0	8.2	7.4	1.0	6.5					
SW	1.7	2.3	.3	.1	.0	.0	44	4.4	5.4	3.9	5.6	2.8	5.2	7.3	14.8	2.2	1.6					
W	4.0	12.4	2.6	.2	.0	.0	192	19.2	6.9	17.3	41.7	18.4	23.4	24.0	3.7	17.5	11.3					
NW	3.9	22.1	11.0	1.3	.2	.0	386	38.6	9.3	36.1	25.0	36.6	34.9	37.0	40.7	45.4	41.9					
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
CALM	10.8	523	176	18	2	0	109	10.8	6.8	19.3	5.6	9.1	7.9	4.3	7.4	14.4	6.5					
TOT OBS	286	176	18	2	0	109	1005	6.8	6.8	205	18	198	63	236	27	202	62					
TOT PCT	28.5	52.0	17.5	1.8	.2	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0					

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										WIND DIRECTION BY SPEED AND BY HOUR											
	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPO	00	03	06	09	12	15	18	21						
N	3.3	2.7	.6	*	.0	67	6.7	8.6	8.4	8.4	7.2	4.0	4.0	7.3	7.3							
NE	2.0	.2	.0	.0	.0	23	2.3	4.2	3.0	3.0	2.2	1.0	1.0	1.6	3.1							
E	2.9	1.1	.0	.0	.0	40	4.0	5.7	4.0	4.0	7.3	1.6	1.6	3.1								
SE	7.3	2.1	.1	.0	.0	95	9.5	5.2	6.5	6.5	10.6	13.4	8.9	8.9								
S	3.1	1.9	.2	.0	.0	46	4.6	5.8	3.1	3.1	4.7	8.1	2.3	2.3								
SW	3.2	1.1	.1	.0	.0	44	4.4	5.4	4.0	4.0	3.4	3.1	2.1	2.1								
W	10.7	7.9	.6	.0	.0	192	19.2	6.9	19.2	19.2	19.6	21.9	16.0	16.0								
NW	15.0	10.9	3.8	.4	.0	386	38.6	9.3	33.2	33.2	36.2	37.4	44.6	44.6								
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0								
CALM	10.8	523	176	18	2	109	10.8	6.8	18.4	18.4	8.8	4.7	12.5	12.5								
TOT OBS	590	352	54	5	.0	1005	100.0	6.8	223	223	261	257	264	264								
TOT PCT	58.7	35.2	5.4	.5	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0								

SEPTEMBER

PERIOD: (PRIMARY) 1936-1970  
(OVER-ALL) 1865-1970

AREA 0653 N. E. PERSIAN GULF  
27.2N 51.7E

TABLE 4

HOUR	PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)				PCT TOTAL OBS
	CA-M	1-3	4-10	11-21	
0603	18.4	15.7	48.4	16.1	.9
0609	8.8	18.4	54.8	15.7	2.3
1215	4.7	19.5	53.3	21.0	1.6
1821	12.5	16.7	51.1	17.0	2.3
TOT	109	177	523	176	18
PCT	10.8	17.6	52.0	17.5	1.8

TABLE 5

WIND DIR	PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION								TOTAL OBS
	0-2	3-4	5-7	8-6	8-0	0-0	MEAN CLOUD COVER		
N	6.1	.3	.0	.0	.0	.0	.3	42	
NE	1.7	.2	.0	.0	.0	.0	.3	12	
E	3.9	.3	.2	.0	.0	.0	.6	28	
SE	8.6	.5	.0	.0	.0	.0	.6	60	
S	3.5	.1	.3	.0	.0	.0	.8	25	
SW	4.4	.4	.1	.0	.0	.0	.3	30	
W	19.8	.4	.1	.2	.0	.0	.3	135	
NW	36.7	.3	.3	.0	.0	.0	.2	247	
CALM	.0	.0	.0	.0	.0	.0	.0	0	
TOT OBS	11.7	.2	.3	.0	.0	.0	.2	81	
TOT PCT	64.4	1.5	1.2	.1	.0	.0	.3	564	
	96.4	2.3	1.2	.2	.0	.0	.3	100.0	

TABLE 6

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NN >4/3) AND OCCURRENCE OF NN <5/8 BY WIND DIRECTION										TOTAL OBS	
	000	149	150	299	300	600	1000	2000	3500	5000		
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12
E	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	28
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	60
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	125
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	247
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOT OBS	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	81
TOT PCT	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	664
	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1936-1970  
(OVER-ALL) 1565-1970

SEPTEMBER

AREA 0023 N. E. PERSIAN GULF  
27.3N 51.7E

TABLE 7  
CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	>10		>5		>2		VSBY (NM)		OR		OR		CR
	OR	CR	OR	CR	OR	CR	>1	3/2	1/4	>50YD	OR	CR	
OR >6500	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
OR >5000	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
OR >3500	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
OR >2000	.4	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6
OR >1000	.4	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7
OR >600	.4	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7
OR >300	.6	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9
OR >150	.6	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9
OR >0	.6	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9
TOTAL	.4	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6

TOTAL NUMBER OF OBS: 696 PCT FREQ NH <5/8: 99.1

TABLE 7A  
PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL
82.5	13.0	2.0	1.0	1.0	.7	.4	.1	.3	.0	.0	710

SEPTEMBER

PERIOD: (PRIMARY) 1936-1970  
(OVER-ALL) 1865-1970

AREA 0029 N. E. PERSIAN GULF  
27.2N 53.7E

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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<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
1<2	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	1.1
	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	1.1
	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	1.1
2<5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.3	.0	.1	.1	.0	.0	.1	1.6	.0	.3	.3	2.5
	.3	.0	.1	.1	.0	.0	.1	1.6	.0	.3	.3	2.5
5<10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	2.3	.4	.5	1.8	.2	1.3	2.9	5.8	.0	2.4	17.6	75.6
	2.3	.4	.5	1.8	.2	1.3	2.9	5.8	.0	2.4	17.6	75.6
10+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4.2	1.3	3.8	6.3	2.9	3.2	17.2	30.8	.0	8.5	78.2	756
	4.2	1.3	3.8	6.3	2.9	3.2	17.2	30.8	.0	8.5	78.2	756
TOT OBS	6.3	1.7	4.6	8.4	3.4	4.5	20.3	38.9	.0	11.4	100.0	756
TOT PCT												

SEPTEMBER

PERIOD: (PRIMARY) 1936-1970  
(OVER-ALL) 1865-1970

AREA 0023 N. E. PERSIAN GULF  
27.3N 51.7E

TABLE 9

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

VSBY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAE	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.5	.1	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.1	.1	.1	.1	.1	.1	.1	.0	.0	.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	
	TOT %	.1	.1	.1	.1	.1	.1	.1	.1	.0	.0	1.0	
2<5	0-3	.2	.0	.0	.1	.0	.0	.1	.0	.0	.2	.7	
	4-10	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	1.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	
	TOT %	.2	.0	.1	.1	.0	.0	.1	.0	.0	.2	2.1	
3<10	0-3	.1	.3	.3	.4	.1	.1	.8	.5	.0	2.3	4.6	
	4-10	.9	.1	.3	1.0	.2	.2	1.4	3.2	.0	.0	8.0	
	11-21	1.0	.0	.0	.2	.0	.0	.8	1.8	.0	.0	3.7	
	TOT %	2.0	.4	.5	1.6	.3	1.1	3.0	5.6	.0	2.3	16.6	
10+	0-3	1.1	.8	.9	2.6	1.5	1.5	3.2	3.5	.0	8.8	23.9	
	4-10	1.9	1.2	2.5	4.1	2.1	1.4	11.2	18.2	.0	.0	42.7	
	11-21	1.4	.0	.2	.6	.2	.3	1.9	7.5	.0	.0	12.0	
	TOT %	4.5	2.0	3.6	7.3	3.7	3.3	16.5	30.1	.0	8.8	79.7	
TOT OBS												886	
TOT PCT		6.8	2.5	4.3	9.2	4.2	4.3	19.6	37.6	.0	11.5	100.0	



SEPTMBER  
 AREA 0023 N. E. PERSIAN GULF  
 27.3N 51.7E

SEPTEMBER

PERIOD: (PRIMARY) 1936-1970  
 (OVER-ALL) 1865-1970

TABLE 10  
 PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
 OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3000	5000	6000+	TOTAL	NH <5/8 ANY HGT	TOTAL NH <5/8 ANY HGT
00003	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	99.4 171
06009	.0	.0	.0	.0	.0	.1	.0	.0	.0	.6	2.3	97.7 176
12015	.0	.0	.0	.0	.5	.0	.0	.0	.0	.5	.5	99.5 196
18021	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0 157
TOT	0	0	1	0	1	3	0	0	0	1	6	704 710
PCT	.0	.0	.1	.0	.1	.4	.0	.0	.0	.1	.8	99.2 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.0	.0	.0	.6	11.3	87.5	148
06009	.0	.0	.0	2.3	11.6	84.9	172
12015	.0	.0	.0	4.2	16.3	76.4	191
18021	.0	.0	.0	3.0	15.2	81.2	165
TOT	0	0	0	18	99	573	696
PCT	.0	.0	.0	2.6	14.2	62.3	100.0

TABLE 12

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

HOUR (GMT)	<150 CEILING HGT	<600 CEILING HGT	<1000 CEILING HGT	1000+ CEILING HGT	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.6	1.2	.6	98.2	168
06009	.0	1.2	4.1	1.7	94.2	172
12015	.0	1.0	5.2	.5	94.2	191
18021	.0	.6	3.6	.0	96.4	165
TOT	0	6	25	5	606	696
PCT	.0	.9	3.6	.7	95.7	100.0

SEPTEMBER

AREA 0023 N. E. PERSIAN GULF  
27.34 51.7E

PERIOD: (PRIMARY) 1936-1970  
(OVER-ALL) 1965-1970

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100				
95/59	.0	.2	.6	1.9	3.2	1.3	.2	.2	.2	.2	40	7.6
90/54	.0	.0	1.1	7.0	16.7	20.0	9.5	1.5	1.5	1.5	294	55.9
85/89	.0	.0	.0	2.9	6.8	11.8	8.7	2.3	2.3	2.3	171	32.5
80/84	.0	.0	.0	.2	.4	1.9	1.1	.4	.4	.4	21	4.0
TOTAL	.0	.1	.9	6.5	14.3	18.4	10.3	2.3	2.3	2.3	926	100.0
PCT	.0	.2	1.7	12.0	27.2	35.0	19.6	4.4	4.4	4.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP												
	N	NE	E	SE	S	SW	W	NW	VAR	CALM		
	.0	.0	.3	.9	.0	.3	1.5	3.9	.0	.4		
	3.7	1.0	3.2	6.7	2.6	2.4	12.0	18.9	.0	4.6		
	2.6	1.0	1.0	2.2	.5	1.2	6.5	12.1	.1	5.5		
	.3	.1	.1	.6	.2	.7	1.3	.4	.0	.4		
	34	10	24	54	17	24	1.3	191	0	57		
	6.6	2.0	4.6	10.3	3.2	4.6	2.5	36.3	.0	10.8		

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR																								
	HOUR (GMT)	98	95	92	90	85	80	75	70	65	60	55	50	45	40	35	30	25	20	15	10	5	0	TOTAL OBS	
0000	98	95	92	89	85	81	80	88.5	230																230
0600	97	96	95	91	85	82	82	90.8	255																255
1200	99	98	97	92	87	83	81	91.9	251																251
1800	95	94	93	90	85	81	80	89.2	260																260
TOT	99	97	95	90	85	82	80	89.2	996																996

TABLE 16

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR																								
	HOUR (GMT)	98	95	92	90	85	80	75	70	65	60	55	50	45	40	35	30	25	20	15	10	5	0	TOTAL OBS	
0000	98	95	92	89	85	81	80	88.5	230																230
0600	97	96	95	91	85	82	82	90.8	255																255
1200	99	98	97	92	87	83	81	91.9	251																251
1800	95	94	93	90	85	81	80	89.2	260																260
TOT	99	97	95	90	85	82	80	89.2	996																996

PERIOD: (PRIMARY) 1936-1970  
 (OVER-ALL) 1865-1970

SEPTEMBER

AREA 0023 N. E. PERSIAN GULF  
 27.3N 51.7E

TABLE 17

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

AIR-SEA TMP DIF	77	81	85	89	93	TOT	M	W	MO FOG
11/13	.0	.0	.0	.1	.0	1	.0	.0	.1
9/10	.0	.0	.0	.0	.1	9	.0	.0	.7
7/8	.0	.0	.1	.4	.6	10	.0	.0	1.3
6	.0	.0	.0	.9	.3	12	.0	.0	1.5
5	.0	.0	.0	.6	1.6	19	.0	.0	2.5
4	.0	.0	.7	1.2	2.0	29	.0	.0	4.1
3	.0	.0	.6	2.9	3.5	50	.0	.0	7.1
2	.0	.0	1.3	4.7	3.4	71	.0	.0	9.9
1	.0	.0	2.2	5.2	2.2	66	.0	.0	9.6
0	.0	.4	1.7	11.8	1.3	105	.0	.0	13.3
-1	.0	.4	3.6	8.7	.7	93	.0	.0	13.6
-2	.0	.3	3.5	6.4	.7	75	.1	.0	10.8
-3	.0	.7	3.6	3.8	.1	57	.0	.0	8.3
-4	.0	.3	3.2	2.5	.0	42	.1	.0	6.0
-5	.0	.7	1.9	.9	.0	23	.1	.0	3.5
-6	.0	.1	.6	.0	.0	5	.0	.0	.7
-7/-8	.1	.3	1.0	.3	.0	12	.0	.0	1.7
-9/-10	.0	.3	.3	.0	.0	4	.0	.0	.6
-11/-13	.0	.0	.1	.0	.0	1	.0	.0	.1
TOTAL	3	24	170	346	115	686	.3	.3	669
PCT	.4	3.5	24.8	50.4	16.5	100.0	.4	.4	97.5

SEPTEMBER  
TABLE 18

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

AREA 0023 N. E. PERSIAN GULF  
27.3N 51.7E

PC) FREQ OF WIND SPEED (KTS) AND DIRECTION VEP'US SEA HEIGHTS (FT)

HGT	N				NE				48+	PCT
	1-3	4-10	11-21	22-33	34-47	48+	11-21	22-33		
<1	.8	2.9	.0	.0	.0	.0	.0	.0	.0	2.3
1-2	.0	.8	.0	.0	.0	.0	.0	.0	.0	.8
3-4	.0	.0	2.9	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.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
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	3.6	2.9	.0	.0	.0	.0	.0	.0	3.1

HGT	E				SE				48+	PCT
	1-3	4-10	11-21	22-33	34-47	48+	11-21	22-33		
<1	.0	.8	.0	.0	.0	.0	.0	.0	.0	6.3
1-2	.0	1.3	.0	.0	.0	.0	.0	.0	.0	5.7
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.8	.0	.0	.0	.0	.0	.0	1.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.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
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.1	.8	.0	.0	.0	.0	.0	.0	13.5

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

SEPTEMBER  
TABLE 18

AREA 0023 N. E. PERSIAN GULF  
27.3N 31.7E

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

HGT	S										TOT PCT			
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21		22-33	34-47	48+
<1	.6	1.3	.0	.0	.0	.0	1.9	1.3	3.2	.0	.0	.0	.0	4.6
1-2	.8	1.3	.0	.0	.0	.0	2.1	.0	.4	.0	.0	.0	.0	.4
3-4	.0	.8	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
5-6	.0	.0	.6	.0	.0	.0	.6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.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
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	3.4	.6	.0	.0	.0	5.3	1.3	3.8	.2	.0	.0	.0	5.3

HGT	NW										TOT PCT			
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21		22-33	34-47	48+
<1	2.7	4.6	.8	.0	.0	.0	8.0	.8	10.7	.0	.0	.0	.0	11.5
1-2	1.5	5.3	.6	.0	.0	.0	7.4	.0	7.3	2.5	.0	.0	.0	9.7
3-4	.0	1.3	1.3	.0	.0	.0	2.7	1.5	5.3	8.0	.0	.0	.0	14.9
5-6	.0	2.3	.0	.0	.0	.0	2.3	.0	3.1	1.5	.8	.0	.0	5.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.2	13.5	2.7	.0	.0	.0	20.4	2.3	26.3	12.8	.8	.0	.0	42.2

SEPTEMBER  
 AREA 0023 N. E. PERSIAN GULF  
 27.3N 51.7E

TABLE 18 (CONT)  
 WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	27.3	22.4	.6	.0	.0	.0	50.3	
1-2	2.5	16.8	3.7	.0	.0	.0	23.0	
3-4	1.2	6.2	9.9	.0	.0	.0	17.4	
5-6	.0	5.0	3.1	.6	.0	.0	8.7	
7	.0	.0	.6	.0	.0	.0	.6	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	31.1	50.3	18.0	.6	.0	.0	100.0	161

TABLE 19  
 PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-26	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+ TOTAL	MEAN HGT	
<6	16.2	20.9	14.2	2.8	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	269
6-7	.0	1.0	2.4	3.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34
8-9	.0	.0	.4	1.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDET	28.6	5.1	2.0	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	179
TOTAL	221	133	94	37	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	492
PCT	44.8	27.0	19.1	7.5	1.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0



OCTOBER

PERIOD: (PRIMARY) 1947-1970  
(DVER-ALL) 1906-1970

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.8	5.7	2.1	.1	.0	.0	109	9.5	8.0	9.6	8.7	12.0	20.8	5.8	.0	9.4	13.9
NE	1.4	2.0	.7	.0	.0	.0	34	3.1	7.5	4.5	6.5	5.8	1.4	.9	2.5	2.0	1.4
E	1.4	3.4	.2	.0	.0	.0	54	5.0	5.3	4.9	10.9	6.1	7.5	3.1	2.5	3.0	5.6
SE	1.7	4.9	.5	.0	.0	.0	78	7.1	6.2	6.4	13.0	7.4	10.4	7.2	15.0	5.4	8.3
S	1.8	2.2	.7	.0	.0	.0	51	4.7	5.9	3.8	4.3	4.5	2.8	6.7	15.0	3.0	4.2
SW	1.0	2.4	.7	.0	.0	.0	39	3.5	5.3	.8	2.2	3.7	1.9	5.7	.0	4.0	5.6
W	1.9	12.3	.2	.2	.0	.0	197	17.9	7.4	15.9	20.7	12.3	13.2	23.6	37.5	19.6	6.9
NW	4.3	21.3	10.9	1.4	.0	.0	418	37.9	9.4	36.5	29.3	34.4	36.3	41.9	27.5	39.0	45.8
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	11.1	597	195	19	0	0	123	11.1	.0	17.5	4.3	13.7	5.7	5.1	.0	12.8	8.3
TOT OBS	293	54.1	17.7	1.7	.0	.0	1104	100.0	7.1	228	23	241	53	276	20	227	36
TOT PCT	26.5	54.1	17.7	1.7	.0	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)					
	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	4.2	.7	.0	.0	106	9.6	8.0	9.6	13.6	5.4	10.0				
NE	1.7	1.2	.2	.0	.0	34	3.1	7.5	4.7	5.0	1.0	1.9				
E	3.4	1.5	.0	.0	.0	54	5.0	5.3	5.5	6.4	3.0	5.0				
SE	4.3	2.6	.2	.0	.0	78	7.1	6.2	7.0	7.9	7.7	5.6				
S	3.0	1.6	.1	.0	.0	51	4.7	5.9	3.9	4.2	7.3	3.1				
SW	2.5	.9	.1	.0	.0	39	3.5	5.3	.9	3.4	5.3	4.2				
W	8.7	8.7	.5	.0	.0	197	17.9	7.4	16.3	12.5	24.6	17.9				
NW	14.7	19.2	3.7	.3	.0	418	37.9	9.4	35.9	34.8	41.0	39.9				
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0				
CALM	11.1	441	61	3	0	123	11.1	.0	16.3	12.2	4.7	12.2				
TOT OBS	599	39.9	9.5	.3	.0	1104	100.0	7.1	251	294	296	283				
TOT PCT	54.3	39.9	9.5	.3	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				



OCTOBER

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1906-1970

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)					MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47			
0603	16.3	15.3	50.2	17.4	2.0	.0	6.9	100.0	251
0609	12.2	13.9	54.4	18.4	1.0	.0	6.8	100.0	294
1215	4.7	16.6	58.8	17.9	2.0	.0	7.6	100.0	296
1821	12.2	16.7	52.1	17.1	1.9	.0	6.9	100.0	263
TOT	123	170	597	195	19	0	7.1		1104
PCT	11.1	15.4	54.1	17.7	1.7	.0		100.0	

TABLE 5

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

WIND DIR	TOTAL CLOUD COVER									
	0-2	3-4	5-7	8-6	TOTAL OBS	MEAN CLOUD COVER	000	150	300	600
N	7.2	.3	.1	.0	62	.4	.0	.0	.0	.0
NE	2.7	.1	.0	.0	23	.4	.0	.0	.0	.0
E	5.1	.0	.1	.0	42	.5	.0	.0	.0	.0
SE	8.2	.0	.3	.0	53	.6	.0	.0	.0	.0
S	4.3	.2	.4	.0	40	1.1	.0	.0	.0	.0
SW	4.0	.4	.0	.0	32	.4	.0	.0	.0	.0
W	16.0	1.2	.6	.0	162	.6	.0	.0	.0	.0
NW	33.2	1.7	1.2	.0	294	.5	.0	.0	.0	.0
CALM	.0	.0	.0	.0	0	.0	.0	.0	.0	.0
TOT OBS	119	6	4	0	105	.4	.0	.0	.0	.0
TOT PCT	756	34	26	0	816	.5	.0	.0	.0	.0
	92.6	4.2	3.2	.0	100.0		.0	.0	.0	.0

TABLE 6

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

WIND DIR	CEILING HEIGHTS (FT)										ANY HGT	TOTAL OBS
	000	149	299	599	999	1999	3999	5999	7999	8000+		
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	62
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	53
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	40
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	162
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	294
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOT OBS	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	105
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	816
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1906-1970

OCTOBER

AREA 0025 N. S. PERSIAN GULF  
27-2N 51.8E

TABLE 7  
CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	>10		>5		>2		VSBY (NM)		>1/2		>1/4		>50YD		>0	
	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR
OR >6500	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5
OR >5000	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5
OR >3500	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6
OR >2000	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8
OR >1000	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
OR >800	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
OR >500	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
OR >150	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
OR >0	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
TOTAL	1.2	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5

TOTAL NUMBER OF OBS: 882

PCT FREQ NH <5/8: 98.5

TABLE 7A  
PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL
	78.9	15.8	2.1	1.1	.7	1.0	.4	.0	.0	.0	910

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

OCTOBER

PERIOD: (PRIMARY) 1967-1970  
(OVER-ALL) 1906-1970

TABLE 8

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

VSBY (MM)	PCP NO PCP TOT %	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT TOTAL OBS
<1/2	.0 .0 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	.0 .0 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	.0 .0 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	.0 .0 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	.0 .0 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10+	.0 .0 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	8.5	3.1	4.6	6.1	4.7	3.9	19.1	37.8	.0	12.0	100.0	935

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1906-1970

OCTOBER

AREA 0023 N. E. PERSIAN GULF  
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TABLE 5

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

VSBY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	0-3	.3	.0	.0	.2	.2	.1	.2	.5	.0	.9	2.5
	4-10	.5	.1	.3	.8	.1	.2	1.3	3.0	.0	6.2	
	11-21	.2	.1	.0	.3	.1	.0	.3	1.7	.0	2.7	
	22+	.0	.0	.0	.0	.0	.0	.1	.1	.0	.1	
TOT %	1.0	.2	.3	1.3	.4	.3	1.6	5.3	.9	.9	11.5	
10+	0-3	1.6	.4	1.5	1.2	1.5	.9	2.5	3.8	.0	10.4	23.1
	4-10	5.2	2.0	3.1	4.1	1.8	2.7	11.3	18.6	.0	48.4	
	11-21	1.7	.6	.2	.4	.5	.1	2.4	8.4	.0	14.0	
	22+	.1	.0	.0	.0	.0	.0	.2	1.3	.0	1.5	
TOT %	8.5	3.0	4.8	5.3	3.8	3.6	16.3	32.1	.0	10.4	67.6	
TOT OBS		9.6	3.2	5.0	6.8	4.3	3.6	18.2	37.9	.0	11.3	1059
TOT PCT												100.0

PERIOD: (PRIMARY) 1947-1970  
(COVER-ALL) 1906-1970

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AREA 0022 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 10  
PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.5	99.5	216
06009	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	1.4	98.6	222
12015	.0	.0	.0	.0	.4	.4	.0	.4	.0	.8	2.3	97.7	256
18021	.0	.0	.0	.0	.0	.9	.0	.0	.0	.5	1.4	98.6	216
TOT PCT	.0 .0	.0 .0	.0 .0	.0 .0	.5 .5	.3 .2	.1 .1	.0 .0	.1 .1	.3 .3	1.4 1.4	87.7 98.6	910 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	< 1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.0	.0	.0	.5	8.1	91.4	209
06009	.0	.0	.0	.5	5.5	94.0	218
12015	.0	.0	.4	.4	7.3	91.9	248
18021	.0	.0	.0	.5	5.3	94.2	207
TOT PCT	.0 .0	.0 .0	.1 .1	.5 .5	58 6.6	819 92.9	882 100.0

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+ AN05+	NH < 5/8 AND 5+	TOTAL OBS
00003	.0	.0	.5	.5	99.0	209
06009	.0	.0	.5	1.4	98.2	218
12015	.0	.0	.8	2.4	96.8	249
18021	.0	.0	.5	1.4	98.1	207
TOT PCT	.0 .0	.0 .0	.5 .6	1.3 1.5	864 98.0	882 100.0

OCT08ER

PERIOD: (PRIMARY) 1947-1970  
(COVER-ALL) 1906-1970

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL DBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100				
95/99	.0	.0	.0	.0	.4	.1	.0	.1	.0	.1	7	.9
90/94	.0	.0	.9	3.9	6.7	2.7	1.4	1.2	1.4	1.2	130	16.7
85/89	.0	.4	2.8	8.2	16.7	15.9	4.7	2.3	4.7	2.3	406	52.1
80/84	.0	.3	2.4	3.5	8.2	6.8	5.1	1.9	1.9	1.9	220	28.2
75/79	.0	.0	.4	.1	.4	.6	.3	.0	.3	.0	14	1.8
70/74	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	2	.3
TOTAL	0	5	51	125	253	212	90	43	43	43	779	100.0
PCT	.0	.6	6.5	16.0	32.5	27.2	11.6	5.5	5.5	5.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP												
	N	NE	E	SE	S	SW	W	NW	VAR	CALM		
95/99	.1	.0	.0	.0	.1	.0	.1	.6	.0	.0		
90/94	1.6	.1	.9	.9	1.6	.7	3.3	6.4	.0	1.2		
85/89	3.6	2.0	2.1	3.2	2.0	2.1	12.7	18.5	.0	5.9		
80/84	3.1	.9	2.0	1.2	1.0	1.2	3.3	10.8	.0	4.6		
75/79	.2	.0	.0	.0	.1	.1	.0	.7	.0	.6		
70/74	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1		
TOTAL	.87	3.0	5.0	5.4	4.9	4.2	15.1	28.8	.0	9.7		
PCT	8.7	3.0	5.0	5.4	4.9	4.2	15.1	28.8	.0	9.7		

TABLE 15

HOUR (GMT)	MEANS/EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL DBS
	HAX	99%	95%	50%	5%	1%	MIN	MEAN			
0003	91	90	88	84	80	77	74	84.1	270		
0609	95	94	92	87	82	77	74	87.0	300		
1215	96	95	93	88	82	79	76	88.1	300		
1821	92	91	89	85	80	79	78	84.8	284		
TOT	96	94	92	86	80	78	74	86.1	1155		

TABLE 16

HOUR (GMT)	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL DBS
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN		
0003	.0	14.9	33.5	30.4	16.0	5.2	71	194			
0609	.0	25.8	32.5	28.4	11.5	5.7	47	209			
1215	.0	34.9	34.9	20.5	5.2	6.4	64	229			
1821	.0	13.5	30.3	34.6	14.9	6.7	71	208			
TOT	0	191	276	229	98	46	68	840			

PERIOD: (PRIMARY) 1947-1970  
 (OVER-ALL) 1906-1970

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AREA 0023 N. E. PERSIAN GULF  
 27.2N 51.8E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (M' (HO)UT PRECIPITATION)  
 VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73	77	81	85	89	93	TOT	W FOG	NO FOG
11/13	.0	.0	.0	.2	.0	.1	3	.0	.3
9/10	.0	.0	.2	.1	.1	.0	4	.0	.5
7/8	.0	.1	.1	.1	.2	.8	12	.0	1.4
6	.0	.1	.0	.2	.1	.1	6	.0	.7
5	.0	.0	.3	.2	1.1	.6	20	.0	2.3
4	.0	.3	.2	1.0	2.0	1.0	41	.1	4.5
3	.0	.2	.1	1.1	1.7	.7	34	.0	3.9
2	.0	.1	.9	3.2	4.7	.5	82	.0	9.3
1	.0	.0	1.9	4.9	2.2	.1	89	.0	10.1
0	.0	.5	2.5	8.3	2.8	.1	125	.0	14.2
-1	.0	.3	2.0	6.7	1.7	.1	97	.0	11.0
-2	.1	.8	3.8	6.6	1.1	.1	110	.0	12.5
-3	.0	.6	4.7	4.5	.2	.0	88	.0	10.0
-4	.1	.7	3.0	3.4	.0	.0	63	.0	7.2
-5	.0	.3	2.3	2.5	.0	.0	45	.0	5.1
-6	.0	.3	2.3	1.0	.0	.0	32	.0	3.6
-7/-8	.0	.2	1.9	.1	.0	.0	20	.0	2.3
-9/-10	.0	.2	.5	.0	.0	.0	6	.0	.7
-11/-13	.0	.3	.0	.0	.0	.0	3	.0	.3
TOTAL	1.47	235	390	169	37	4.2	680	1	879
PCT	.2	5.3	26.7	44.3	19.2	4.2	100.0	.1	99.9

PERIOD: (PRIMARY) (OVER-ALL. 1963-1970) OCTOBER AREA 0023 N. E. PERSIAN GULF  
 TABLE 18 27.2N 51.8E

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

HGT	N					NE					PCT			
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21		22-33	34-47	48+
<1	.0	.9	.0	.0	.0	.0	.9	.1	1.2	.0	.0	.0	.0	1.4
1-2	.0	2.6	.0	.0	.0	.0	2.6	.0	.5	.0	.0	.0	.0	.5
3-4	.5	1.6	1.8	.0	.0	.0	3.9	.0	.0	2.2	.0	.0	.0	2.2
5-6	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
B7+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	5.1	2.2	.0	.0	.0	7.8	.1	1.8	2.2	.0	.0	.0	4.1

HGT	E					SE					PCT			
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21		22-33	34-47	48+
<1	.4	2.0	.0	.0	.0	.0	2.4	.5	1.2	.0	.0	.0	.0	1.8
1-2	.0	2.2	.0	.0	.0	.0	2.2	.0	2.8	.0	.0	.0	.0	4.8
3-4	.0	1.4	.5	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.8
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.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	.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
B7+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	5.5	.5	.0	.0	.0	6.5	2.7	4.7	.1	.0	.0	.0	7.2



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

OCTOBER  
 TABLE 18

AREA 0023 N, E. PERSIAN GULF  
 27.2N 51.0E

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

HGT	S					48+	PCT	SM					48+	PCT
	1-3	4-10	11-21	22-33	34-47			1-3	4-10	11-21	22-33	34-47		
<1	2.6	.9	.0	.0	.0	.0	3.5	.7	2.6	.0	.0	.0	.0	3.2
1-2	.5	2.0	1.1	.0	.0	.0	3.6	.0	1.2	.0	.0	.0	.0	1.2
3-4	.0	.9	1.6	.0	.0	.0	2.6	.0	1.2	.0	.0	.0	.0	1.2
5-6	.0	.0	1.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.1	3.9	3.1	.0	.0	.0	10.1	.7	5.0	.0	.0	.0	.0	5.7

HGT	W					48+	PCT	NW					48+	PCT
	1-3	4-10	11-21	22-33	34-47			1-3	4-10	11-21	22-33	34-47		
<1	2.4	3.9	.0	.0	.0	.0	6.4	1.9	2.9	.0	.0	.0	.0	4.7
1-2	1.1	5.8	.5	.0	.0	.0	7.4	2.2	10.4	2.7	.0	.0	.0	15.3
3-4	.0	2.2	3.0	.0	.0	.0	3.1	.0	4.3	9.3	.0	.0	.0	13.6
5-6	.0	.0	.4	.0	.0	.0	.4	.0	.5	3.5	.0	.0	.0	4.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.5	.0	.0	1.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.5	11.9	3.9	.0	.0	.0	19.3	4.1	18.1	16.6	.5	.0	.0	39.3

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

OCTOBER

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT				
<1	24.3	12.8	.0	.0	.0	.0	37.2				
1-2	5.3	22.6	3.3	.0	.0	.0	31.4				
3-4	.0	10.2	15.0	.0	.0	.0	25.7				
5-6	.0	.4	4.0	.0	.0	.0	4.4				
7	.0	.0	.9	.4	.0	.0	1.3				
8-9	.0	.0	.0	.0	.0	.0	.0				
10-11	.0	.0	.0	.0	.0	.0	.0				
12	.0	.0	.0	.0	.0	.0	.0				
13-16	.0	.0	.0	.0	.0	.0	.0				
17-19	.0	.0	.0	.0	.0	.0	.0				
20-22	.0	.0	.0	.0	.0	.0	.0				
23-25	.0	.0	.0	.0	.0	.0	.0				
26-32	.0	.0	.0	.0	.0	.0	.0				
33-40	.0	.0	.0	.0	.0	.0	.0				
41-48	.0	.0	.0	.0	.0	.0	.0				
49-60	.0	.0	.0	.0	.0	.0	.0				
61-70	.0	.0	.0	.0	.0	.0	.0				
71-86	.0	.0	.0	.0	.0	.0	.0				
87+	.0	.0	.0	.0	.0	.0	.0				
TOT PCT	30.1	46.0	23.5	.4	.0	.0	100.0	226			

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	11.7	27.7	15.3	2.6	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	380	2
6-7	.0	1.1	3.0	1.8	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	45	4
8-9	.0	.5	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	3
10-11	.0	.2	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	5
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
INDET	26.4	4.4	2.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	223	1
TOTAL	251	222	142	52	9	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	658	2
PCT	38.1	33.7	2.6	4.9	1.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	0

NOVEMBER

AREA 0023 N. E. PERSIAN GULF  
37.1N 51.9E

PERIOD: (PRIMARY) 1939-1970  
(OVER-ALL) 1865-1970

TABLE 1  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN		RAIN SHHR	ORZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT 08 TIME	TOTAL PCPN OBS	TMDB LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
	SHHR	SHMR			PCPN	FRZG	SNOW					OTHER	FRZM PCPN	FG	SMOKE	
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.2	.0	.1	.1	14.2	111
NE	.0	.1	.0	.0	.0	.0	.0	.1	.5	2	.3	.#	.1	.0	3.8	39
E	.2	.0	.0	.0	.0	.0	.0	.0	.2	1	.5	.1	.0	.0	9.1	75
SE	.3	.1	.1	.0	.0	.0	.0	.0	.6	4	.1	.0	.1	.0	8.9	74
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	2.9	22
SH	.0	.0	.1	.0	.0	.0	.0	.0	.1	1	.0	.0	.0	.0	2.8	22
H	.0	.1	.0	.0	.0	.0	.0	.0	.1	1	.1	.0	.0	.0	11.1	86
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.#	.1	.5	.#	33.9	263
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0
CALM	.1	.0	.0	.0	.0	.0	.0	.1	.3	2	.9	.0	.1	.0	8.9	71
TOT OBS	.7	.3	.3	.3	.0	.0	.0	.2	1.0	12	1.2	.3	.2	.8	729	761
TOT PCT	.7	.4	.4	.3	.0	.0	.0	.3	1.0	12	1.2	.3	.2	.3	95.8	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN		RAIN SHHR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT 08 TIME	TOTAL PCPN OBS	TMDB LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
	SHHR	SHMR			PCPN	FRZG	SNOW					OTHER	FRZM PCPN	FG	SMOKE	
0003	1.6	.5	.5	.5	.0	.0	.0	.5	3.2	6	2.1	.0	1.6	.0	93.6	188
0609	1.0	.0	.5	.0	.0	.0	.0	.0	1.5	3	.0	.5	.5	.0	97.5	198
1215	.0	.9	.0	.0	.0	.0	.0	.0	.9	2	.9	.0	.9	.9	96.4	221
1821	.0	.0	.0	.0	.0	.0	.0	.5	.5	1	1.5	.5	1.0	.0	96.5	198
TOT	.5	.3	.2	.2	.0	.0	.0	.3	1.5	12	1.1	.2	1.6	.2	773	805
PCT	.6	.4	.4	.3	.0	.0	.0	.2	1.5	12	1.1	.2	1.0	.2	96.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1959-1970  
(OVER-ALL) 1865-1970

AREA 0022 N. E. PERSIAN GULF  
27.0IN 51.9E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPO								
N	1.5	7.2	4.5	.3	.0	.0	130	14.1	5.1	18.7	14.1	15.3	9.3	12.7	10.6	12.1	12.0
NE	1.0	4.0	.7	.1	.0	.0	44	4.8	6.8	7.0	28.1	5.6	.0	3.1	6.1	2.6	5.4
E	1.2	6.1	1.9	.1	.0	.0	85	9.4	7.9	10.8	15.6	12.6	8.1	6.1	7.6	7.5	4.3
SE	1.0	6.1	2.5	.1	.0	.0	89	9.7	8.4	10.1	6.3	9.5	11.6	8.4	10.9	9.2	15.2
S	1.4	1.3	.4	.0	.0	.0	28	3.1	5.3	1.1	.0	3.0	4.0	.0	.0	3.0	3.3
SW	.9	2.4	.1	.0	.0	.0	30	3.3	5.5	1.5	6.3	2.6	4.7	4.2	2.0	3.3	6.5
W	2.1	6.9	2.7	.3	.0	.0	110	12.0	8.1	5.5	.0	10.5	16.3	15.6	22.7	13.3	14.1
NW	2.3	16.8	13.2	2.4	.0	.0	321	34.8	11.0	32.2	29.7	32.8	36.0	36.6	33.3	37.4	27.2
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.8	46.4	24.0	31	0	0	81	8.8	.0	13.1	.0	8.3	2.3	5.3	6.1	11.4	10.4
TOT OBS	188	2650	3.4	923	8.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
TOT PCT	20.4	50.5	3.4	923	8.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)						4+	TOTAL OBS	PCT FREQ	MEAN SPO	HOUR (GMT)						
	0-6	7-16	17-27	28-40							00	03	06	09	12	15	18
N	5.6	7.2	1.3	.0	.0	.0	130	14.1	9.1	18.3	14.2	12.4	12.3	12.3	12.3	12.3	12.3
NE	3.1	1.4	.1	.1	.0	.0	44	4.8	6.6	8.7	4.6	3.5	3.2	3.2	3.2	3.2	3.2
E	4.3	4.6	.5	.0	.0	.0	86	9.4	7.9	11.2	11.8	8.0	6.8	6.8	6.8	6.8	6.8
SE	4.3	4.8	.6	.0	.0	.0	89	9.7	8.4	9.8	9.9	8.7	10.4	10.4	10.4	10.4	10.4
S	2.4	.6	.2	.0	.0	.0	28	3.1	5.3	1.0	4.6	3.5	3.0	3.0	3.0	3.0	3.0
SW	2.4	.8	.1	.0	.0	.0	30	3.3	5.5	1.9	3.0	4.1	4.1	4.1	4.1	4.1	4.1
W	5.7	5.5	.8	.0	.0	.0	110	12.0	8.1	5.0	11.5	16.5	13.5	13.5	13.5	13.5	13.5
NW	10.2	17.9	6.2	.4	.0	.0	321	34.8	11.0	32.2	33.4	37.9	35.3	35.3	35.3	35.3	35.3
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.8	395	90	5	0	0	81	8.8	.0	12.1	7.2	5.4	11.3	11.3	11.3	11.3	11.3
TOT OBS	433	42.8	9.8	.5	0	0	923	100.0	8.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
TOT PCT	46.9	42.8	9.8	.5	0	0	923	100.0	8.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1939-1970  
 (OVER-ALL) 1865-.970

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNETS)				PCT OBS	TOTAL OBS
	0-3	4-10	11-21	22-33		
0003	12.1	48.2	26.1	1.5	.0	199
0609	7.2	50.8	24.2	4.2	.0	236
1215	5.4	51.6	29.8	3.9	.0	258
1821	11.7	50.0	23.5	3.5	.0	230
TOT	8.1	46.4	24.0	3.1	0	923
PCT	8.6	50.3	26.0	3.4	.0	100.0

TABLE 5

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

WIND DIR	MEAN CLOUD COVER								TOTAL OBS
	0-2	3-4	5-7	8-6	9-10	11-12	13-14	15-16	
N	11.1	1.0	1.4	.3	.9	1.2	1.2	1.2	89
NE	3.6	.0	.6	.1	.1	1.2	1.2	1.2	27
E	6.8	1.1	1.6	.3	.6	1.9	1.9	1.9	63
SE	6.2	.9	1.7	.6	.6	2.4	2.4	2.4	61
S	2.0	.6	.2	.1	.1	1.9	1.9	1.9	18
SW	2.1	.2	.3	.0	.0	1.4	1.4	1.4	16
W	9.6	.4	.7	.0	.0	.9	.9	.9	69
NW	31.8	2.2	2.3	.2	.2	.9	.9	.9	236
VPR	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	8.3	1.4	.3	.0	.0	.8	.8	.8	68
TOT OBS	528	31	59	10	688	1.2	1.2	1.2	688
TOT PCT	81.5	7.9	9.1	1.5	100.0				100.0

TABLE 6

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

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8)												TOTAL OBS				
	000	149	150	299	300	599	600	1000	1999	3499	4999	5000		6499	7999	8000+	ANY HGT
N	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.2	.0	.0	.0	.1	13.4	89
NE	.0	.0	.0	.0	.0	.0	.0	.2	.1	.2	.0	.0	.0	.0	.1	3.7	27
E	.0	.0	.0	.0	.0	.0	.1	.5	.1	.2	.0	.2	.0	.0	.0	8.9	63
SE	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.2	.0	.0	.0	.2	8.9	61
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	2.7	18
SW	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	2.4	16
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.0	.0	.0	.1	10.2	69
NW	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	35.4	236
VPR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	9.9	68
TOT OBS	0	0	0	0	0	0	3	9	3	4	2	2	3	4	620	688	
TOT PCT	.0	.0	.0	.0	.0	.5	1.4	.5	.6	.3	.3	.6	.3	.5	95.7	100.0	

PERIOD: (PRIMARY) 1939-1970  
(OVER-ALL) 1865-1970

NOVEMBER

AREA 0023 N. E. PERSIAN GULF  
27.1N 51.9E

TABLE 7

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

CEILING (FEET)	VSBY (NH)					CR
	>10	>5	>2	>1	>1/2	
DR >6500	.9	.9	1.0	1.0	1.0	1.0
DR >5000	1.2	1.2	1.3	1.3	1.3	1.3
DR >3500	1.9	1.9	2.0	2.0	2.0	2.0
DR >2000	2.2	2.2	2.5	2.5	2.5	2.5
DR >1000	3.5	3.5	3.8	3.8	3.8	3.8
DR >600	3.9	3.9	4.2	4.2	4.2	4.2
DR >300	3.9	3.9	4.2	4.2	4.2	4.2
DR >150	3.9	3.9	4.2	4.2	4.2	4.2
DR > 0	3.9	3.9	4.2	4.2	4.2	4.2
TOTAL	27	27	29	29	29	29

TOTAL NUMBER OF OBS: 685

PCT FREQ NH <5/8: 93.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	TOTAL
65.2	19.2	5.7	3.2	1.3	1.7	1.5	1.7	.6	718
									OBSCD OBS
									.0

PERIOD: (PRIMARY) 1939-1970  
 (OVER-ALL) 1865-1970

NOVEMBER

AREA: 0023 N. E. PERSIAN GULF  
 27.1N 51.9E

TABLE 8  
 PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
 PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL DBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2+1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	.0	.3	.0	.1	.0	.0	.1	.0	.0	.0	.0	.5
NO PCP	.1	.2	.1	.1	.0	.0	.0	.7	.0	.0	.0	1.2
TOT %	.1	.5	.1	.3	.0	.0	.1	.7	.0	.0	.0	1.7
5<10	.0	.0	.1	.4	.0	.0	.0	.0	.0	.0	.0	.5
NO PCP	2.2	.3	.6	.8	.1	.4	1.0	3.1	.0	.1	.1	8.7
TOT %	2.2	.3	.7	1.2	.1	.4	1.0	3.1	.0	.1	.1	9.2
10+	.0	.1	.1	.0	.0	.1	.0	.0	.0	.3	.7	.7
NO PCP	11.3	3.5	8.7	8.2	2.8	2.4	10.2	30.9	.0	8.9	88.0	100.0
TOT %	11.3	3.6	8.9	8.2	2.8	2.6	10.2	30.9	.0	9.2	88.7	100.0
TOT DBS	14.6	4.4	9.9	9.8	2.9	3.0	11.4	34.7	.0	9.3	100.0	761
TOT PCT												

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AREA 0020, N. E. PERSIAN GULF  
27.1N 51.9E

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.1	.0	.1	.0	.0	.0	.1	.0	.0	.3
	4-10	.0	.1	.1	.1	.0	.0	.0	.2	.0	.0	.5
	11-21	.2	.2	.1	.4	.0	.0	.1	.2	.0	.0	.3
	TOT %	.2	.4	.2	.6	.0	.0	.1	.6	.0	.0	1.7
5<10	0-3	.1	.2	.1	.1	.2	.3	.0	.2	.0	.5	1.7
	4-10	1.1	.1	.3	.7	.1	.1	.7	1.4	.0	.0	4.4
	11-21	.5	.0	.3	.4	.0	.0	.3	.9	.0	.0	2.4
	TOT %	1.9	.3	.5	1.2	.5	.5	1.0	2.9	.0	.5	9.2
10+	0-3	1.1	.7	1.2	.8	1.3	.6	2.2	2.1	.0	8.6	18.7
	4-10	6.9	2.7	5.9	5.5	1.3	2.1	6.0	15.0	.0	.0	45.5
	11-21	3.6	.6	1.4	1.9	.5	.1	2.3	12.2	.0	.0	22.5
	TOT %	11.7	4.0	8.4	8.2	3.0	2.8	10.8	31.2	.0	8.6	88.8
TOT OBS		13.8	4.7	9.5	9.9	3.3	3.3	11.9	34.7	.0	9.0	100.0
TOT PCT												884



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AREA 0023 N. E. PERSIAN GULF  
27.1N 51.9E

PERIOD: (PRIMARY) 1939-1970  
(OVER-ALL) 1865-1970

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 D85
00003	.0	.0	.0	.6	3.1	.6	1.3	.0	.0	1.3	6.9	93.1	160
06009	.0	.0	.0	1.1	1.7	.0	.6	.0	.6	.6	5.0	95.0	181
12015	.0	.0	.0	.0	.0	1.0	.5	1.0	.5	.5	3.5	96.5	165
18021	.0	.0	.0	.0	.6	.0	.0	.0	.6	.0	1.2	98.8	168
TOT	0	0	0	3	9	3	5	3	3	4	29	679	708
PCT	.0	.0	.0	.4	1.3	.4	.7	.3	.4	.6	4.1	95.9	100.0

TABLE 11

PERCENT FREQUENCY VS8Y (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL D85
00003	.0	.0	.0	2.6	5.1	92.3	156
06009	.0	.0	.6	.6	1.7	97.2	176
12015	.0	.0	.0	1.1	2.6	96.3	189
18021	.0	.4	.0	1.8	3.0	94.5	164
TOT	0	1	1	10	21	652	685
PCT	.0	.1	.1	1.5	3.1	95.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS8Y (NH) AND/OR  
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	<150 <50Y0	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL D85
00003	.0	.0	.0	3	6.4	90.4
06009	.0	.0	.0	2.3	3.4	94.3
12015	.0	.0	.0	1.1	3.2	95.8
18021	.0	.6	.6	2.4	1.2	96.3
TOT	0	1	1	15	24	646
PCT	.0	.1	.1	2.2	3.5	94.3

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PERIOD: (PRIMARY: 1239-1970  
(OVER-ALL) 1865-1970

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100				
90/94	.0	.0	.0	.2	.5	.0	.0	.0			4	.7
85/89	.0	.0	1.7	3.8	4.8	1.7	.5	.0			73	12.6
80/84	.0	.2	3.5	11.6	14.7	6.9	2.2	.5			239	39.6
75/79	.0	.3	3.1	8.1	10.7	9.8	3.1	1.4			206	35.6
70/74	.0	.0	.9	2.6	4.3	1.7	1.7	.3			67	11.6
TOTAL	.0	.3	5.3	15.2	20.3	11.1	4.4	1.3			579	100.0
PCT	.0	.5	9.2	26.3	35.1	19.2	7.7	2.2				

TABLE 14

AREA 0029 N. S. PERSIAN GULF  
27.1N 51.9E

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										
	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.1	.4	.2	.2	.0	.0	.2	.0	.0	.0
	.3	1.4	1.5	1.5	.7	.7	2.1	4.2	.0	1.2
	4.2	1.6	3.8	4.2	1.6	1.5	6.0	13.3	.0	3.3
	5.4	2.2	3.2	3.8	.4	1.4	2.6	12.3	.0	4.1
	3.2	.0	1.3	.6	.4	.1	.7	4.3	.0	.9
	7.8	2.4	1.7	.9	1.8	2.1	6.7	1.97	.0	3.5
	13.5	4.2	9.6	10.3	3.2	3.8	11.6	34.7	.0	9.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR									
	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS	
90	84	83	78	71	70	70	77.9	211		
06209	90	86	81	73	70	70	80.3	242		
12215	91	90	88	82	73	71	81.2	259		
18221	86	85	84	79	72	71	78.7	244		
TOT	91	89	86	80	72	70	79.6	952		

TABLE 16

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR									
	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS	
90	84	83	78	71	70	70	77.9	211		
06209	90	86	81	73	70	70	80.3	242		
12215	91	90	88	82	73	71	81.2	259		
18221	86	85	84	79	72	71	78.7	244		
TOT	91	89	86	80	72	70	79.6	952		

PERIOD (PRIMARY) 1939-1973  
 (OVER-ALL) 1865-1973

NOVEMBER

AREA 0023 N.E. PERSIAN GULF  
 27.2N 51.9E

TABLE 17

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

AIR-SEA TEMP DIF	69	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	TOT	W	FDG	NO	FDG
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0	.1	.0
9/10	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	.0	.0	.9	.0
7/8	.0	.0	.0	.0	.0	.0	.1	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	7	.0	.0	1.0	.0
6	.0	.0	.0	.0	.0	.0	.1	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	5	.0	.0	.7	.0
5	.0	.0	.0	.0	.0	.0	.1	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	11	.0	.0	1.6	.0
4	.0	.0	.0	.0	.0	.0	.3	.1	.6	1.0	1.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	.0	.0	2.3	.0
3	.0	.0	.0	.0	.0	.0	.3	.3	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	1.7	.0
2	.1	.1	.1	1.2	2.3	2.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.0	6.8	.0	
1	.0	.0	1.0	3.5	5.2	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	36	.0	.0	5.0	.0	
0	.0	.0	1.0	3.5	5.2	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	82	.0	.0	11.8	.0	
-1	.0	.0	1.7	3.9	6.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	83	.0	.0	11.9	.0	
-2	.0	.0	1.0	4.2	4.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	71	.0	.0	10.2	.0	
-3	.1	.1	1.7	6.0	1.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	39	.0	.0	9.9	.0	
-4	.4	.4	2.2	6.0	2.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	77	.0	.0	11.1	.0	
-5	.4	.4	3.9	3.3	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	60	.0	.0	8.5	.0	
-6	.7	.7	3.3	1.9	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	44	.0	.0	6.3	.0	
-7/8	1.6	1.6	3.5	1.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	44	.0	.0	6.3	.0	
-9/10	1.3	1.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	.0	.0	2.9	.0	
-11/13	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.0	.6	.0	
TOTAL	36	135	250	203	80	11																693	2	.0	693	.6	
PCT	5.2	19.4	33.1	29.2	11.5	1.6																100.0	.3	.0	95.7	.7	

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 TABLE 18  
 AREA 0023 N. E. PERSIAN GULF  
 27.1°N 51.9°E

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

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

HGT	N					NE					48+	PCT	
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33			34-47
1-2	1.5	4.4	1.0	0.0	0.0	0.0	1.4	2.3	0.0	0.0	0.0	0.0	3.6
1-2	0.0	5.5	1.7	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	3.6
3-4	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
5-6	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.6	1.2	0.0	0.0	0.0	1.8
7	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8-9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10-11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13-16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17-19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20-22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23-25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26-32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33-40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41-46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47-60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61-70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
71-86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOT PCT	0.5	10.3	5.5	1.1	0.0	0.0	1.4	5.6	1.2	0.0	0.0	0.0	8.2

HGT	E					SE					48+	PCT	
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33			34-47
1-2	1.2	3.3	0.0	0.0	0.0	0.0	1.8	2.4	1.2	0.0	0.0	0.0	2.6
1-2	0.0	0.0	0.0	0.0	0.0	0.0	0.6	2.4	1.2	0.0	0.0	0.0	4.2
3-4	0.0	1.2	0.0	0.0	0.0	0.0	0.0	1.8	1.5	0.0	0.0	0.0	3.3
5-6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8-9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10-11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13-16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17-19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20-22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23-25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26-32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33-40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41-43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
44-60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61-70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
71-86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOT PCT	1.9	6.5	2.1	0.0	0.0	0.0	2.4	5.0	2.7	0.0	0.0	0.0	10.2

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	1.7	.5	.0	.0	.0	.0	2.1	.2	.6	.0	.0	.0	.0	.8
1-2	1.2	.0	.0	.0	.0	.0	1.2	.0	1.4	.0	.0	.0	.0	1.4
3-4	.0	.5	.4	.0	.0	.0	1.1	.0	.2	.0	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.9	.9	.6	.0	.0	.0	4.4	.2	2.1	.0	.0	.0	.0	2.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	.9	.5	.0	.0	.0	2.4	2.0	3.2	.8	.0	.0	.0	5.9
1-2	.0	1.7	.5	.0	.0	.0	2.1	1.8	7.3	5.2	.0	.0	.0	14.2
3-4	.0	.5	.5	.0	.0	.0	.9	.0	4.4	6.5	.0	.0	.0	11.5
5-6	.0	.0	1.7	.0	.0	.0	1.2	.0	.8	3.2	.0	.0	.0	3.9
7	.0	.0	.0	.5	.0	.0	.5	.0	.6	1.2	.0	.0	.0	2.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	1.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	3.0	2.6	.5	.0	.0	7.1	3.8	16.2	16.8	3.3	.0	.0	40.2



DECEMBER

PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1885-1970

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN		DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ		TOTAL PCPN	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL DBS	
	SHHR	SHHR		FR7G	SNOW	OTHER		FRZN	PCPN AT DB TIME			PCPN AT DB TIME	FOG	SHRKE	HAZE	BLWG		DUST
N	.1	.2	.1	.0	.0	.0	.0	.4	3	.0	.0	.0	.0	.0	.0	.0	12.1	109
NE	.2	.0	.1	.0	.0	.0	.0	.4	3	.0	.0	.0	.0	.0	.0	.0	3.7	35
E	.4	.1	.1	.0	.0	.0	.0	.7	5	.0	.0	.0	.0	.0	.0	.0	5.9	61
SE	.6	.0	.0	.0	.0	.0	.0	.6	5	.0	.0	.0	.0	.0	.0	.0	8.7	81
S	.3	.1	.1	.0	.0	.0	.0	.5	4	.0	.0	.0	.0	.0	.0	.0	3.7	37
SW	.1	.1	.1	.0	.0	.0	.0	.2	2	.0	.0	.0	.0	.0	.0	.0	2.3	21
W	.0	.1	.0	.0	.0	.0	.0	.1	1	.0	.0	.0	.0	.0	.0	.0	1.3	89
NW	.3	.2	.2	.0	.0	.0	.0	.8	6	.0	.0	.0	.0	.0	.0	.0	3.6	355
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	7.3	63
TOT DBS	17	7	7	0	0	0	0	0	31	0	0	0	0	0	0	0	794	654
TOT PCT	2.0	.8	.8	.0	.0	.0	.0	3.6	31	0	0	0	0	0	0	0	93.0	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN		DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ		TOTAL PCPN	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL DBS	
	SHHR	SHHR		FR7G	SNOW	OTHER		FRZN	PCPN AT DB TIME			PCPN AT DB TIME	FOG	SHRKE	HAZE	BLWG		DUST
0003	1.8	.5	.9	.0	.0	.0	.0	3.2	7	1.8	1.4	.5	.0	.0	.0	.0	9.3	217
0609	2.2	.9	.9	.0	.0	.0	.0	4.0	9	.4	1.8	.0	.0	.0	.0	.0	93.7	223
1215	1.8	.9	.4	.0	.0	.0	.0	3.1	7	.6	2.2	1.8	.0	.0	.0	.0	92.1	228
1821	1.8	.9	1.3	.0	.0	.0	.0	4.0	9	1.8	1.3	.0	.0	.0	.0	.0	92.9	225
TOT	17	7	7	0	0	0	0	0	32	10	15	5	0	0	0	0	831	893
PCT	1.9	.8	.9	.0	.0	.0	.0	3.6	32	1.1	1.7	.6	.0	.0	.0	.0	93.1	100.0

DECEMBER

PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1885-1970

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)											
	0-3	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	6.9	4.6	.5	.0	.0	132	13.4	10.0	15.0	13.4	15.4	18.1	9.8	12.9	15.2	9.6					
NE	.9	2.6	1.0	.1	.0	.0	45	4.6	7.9	5.0	2.1	4.8	8.3	2.7	7.1	4.7	5.9					
E	.7	4.6	1.6	.2	.0	.0	71	7.2	8.4	7.4	14.6	7.4	12.5	3.2	2.9	8.0	8.8					
SE	.9	4.4	3.4	.7	.0	.0	91	9.3	11.1	9.4	10.4	11.9	12.5	8.1	4.3	7.9	8.8					
S	.5	2.6	1.3	.1	.0	.0	44	4.5	9.9	2.5	4.2	3.1	5.6	3.8	12.9	6.8	5.9					
SW	.5	1.5	.3	.2	.0	.0	24	2.5	8.0	2.7	4.2	1.9	1.4	3.8	.0	2.8	1.5					
W	1.2	5.8	2.7	.6	.0	.0	102	11.3	9.7	8.0	8.3	11.4	6.9	11.7	12.9	10.6	8.8					
NW	2.2	17.2	18.9	2.7	.0	.0	408	11.0	12.0	41.8	37.5	41.5	29.2	49.6	41.4	33.1	44.9					
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
CALM	7.3	452	333	51	0	0	72	7.3	9.9	8.2	8.2	2.7	5.6	5.2	5.7	13.5	5.9					
TOT OBS	153	456	338	51	0	0	991	100.0	9.9	220	12	221	36	211	35	232	34					
TOT PCT	15.4	45.6	33.8	5.1	.0	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0					

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)											
	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPO	00	03	06	09	12	15	18	21						
N	4.5	7.1	1.8	.0	.0	132	13.4	10.0	14.8	15.8	10.3	12.7	12.7	12.7	12.7	12.7						
NE	2.2	2.1	.3	.0	.0	45	4.6	7.9	4.8	5.3	3.4	4.9	4.9	4.9	4.9	4.9						
E	3.5	3.1	.5	.1	.0	71	7.2	8.4	7.8	8.1	4.9	8.1	8.1	8.1	8.1	8.1						
SE	2.8	4.5	1.8	.2	.0	91	9.3	11.1	9.5	12.0	7.7	8.0	8.0	8.0	8.0	8.0						
S	1.8	1.8	.8	.1	.0	44	4.5	9.9	.6	3.4	5.1	6.6	6.6	6.6	6.6	6.6						
SW	1.3	1.0	.2	.0	.0	24	2.5	8.0	2.8	1.8	3.3	2.1	2.1	2.1	2.1	2.1						
W	3.9	5.1	1.1	.2	.0	102	10.3	9.7	8.0	10.8	11.9	10.4	10.4	10.4	10.4	10.4						
NW	8.8	22.0	9.8	.5	.0	406	41.0	12.0	41.6	39.8	48.5	34.7	34.7	34.7	34.7	34.7						
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0						
CALM	7.3	467	151	10	0	72	7.3	9.9	8.2	8.2	3.1	5.3	5.3	5.3	5.3	5.3						
TOT OBS	358	467	151	10	0	991	100.0	9.9	232	237	246	256	256	256	256	256						
TOT PCT	36.1	46.6	16.2	1.0	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0						



DECEMBER

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33			
0000	8.2	7.3	47.0	32.8	4.7	.0	9.8	100.0
0600	3.1	8.9	49.8	32.3	5.8	.0	10.2	100.0
1200	5.3	7.3	43.5	37.8	6.1	.0	10.6	100.0
1800	12.5	9.0	42.2	32.4	3.9	.0	9.0	100.0
TOT	72	81	452	335	51	0	9.9	991
PCT	7.3	8.2	45.6	33.8	5.1	.0	10.0	

TABLE 5

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

WIND DIR	PCT FREQ				MEAN CLOUD COVER	TOTAL OBS	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8 AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION											
	0-2	3-4	5-7	8-10			150	300	600	1000	2000	3500	5000	6500	8000+	ANY <5/8	TOTAL	
N	7.1	1.8	3.4	1.7	2.7	91	.1	.0	.0	.1	.5	.7	.4	.1	.0	10.5	91	
NE	1.5	.8	1.6	.6	3.9	32	.0	.0	.0	.2	.4	.4	.4	.1	.0	.0	3.5	32
E	3.1	.6	2.8	.4	3.7	54	.0	.1	.0	.4	.7	.1	.0	.1	.0	.2	6.0	54
SE	3.1	.5	2.6	1.5	4.2	54	.0	.0	.1	.0	.5	.5	.1	.0	.0	.6	5.7	54
S	1.4	.4	.9	.7	3.9	24	.0	.0	.0	.1	.3	.3	.0	.1	.0	.1	2.5	24
SW	2.0	.3	.3	.4	2.3	20	.0	.0	.0	.1	.2	.0	.0	.1	.0	.0	2.6	20
W	7.5	1.8	1.6	1.0	2.2	84	.0	.0	.1	.2	.0	.3	.1	.1	.0	10.8	84	
NW	25.5	6.7	6.8	1.8	2.2	290	.0	.0	.4	.3	2.2	1.0	1.4	.4	.1	34.4	290	
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
CALM	6.5	1.0	.7	.0	1.1	58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	7.7	58
TOT OBS	411	100	147	54	712	2.6	1	1	2	10	34	23	15	13	6	10	597	712
TOT PCT	57.7	14.0	20.6	7.6	100.0		.1	.1	.3	1.4	4.8	3.2	2.1	1.8	.5	1.4	83.8	100.0

PERIOD: (PRIMARY) 1948-1970  
(COVER-ALL) 1985-1970

DECEMBER

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 7

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

CEILING (FEET)	OR		OR		OR		OR		OR		OR	
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>30	>10	>5	>2	>1
OR >6500	1.5	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
OR >5000	3.0	3.8	3.8	3.8	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
OR >3500	4.8	5.9	5.9	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
OR >2000	7.2	8.5	8.6	8.8	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
OR >1000	11.2	12.9	13.6	13.6	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
OR >600	12.0	14.1	14.8	14.8	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1
OR >300	12.1	14.6	15.2	15.2	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
OR >150	12.2	14.7	15.4	15.4	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
OR > 0	12.2	14.8	15.5	15.5	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8
TOTAL	90	109	114	114	115	116	116	116	116	116	116	116

TOTAL NUMBER OF OBS: 735

PCT FREQ NH <5/8: 84.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL
46.2	13.3	11.0	8.2	5.5	3.6	4.7	2.5	4.8	.1	780	

PERICCI (PRIMARY) 1948-1970  
 (OVER-ALL) 1885-1970

DECEMBER

AREA 0023 N. E. PERSIAN GULF  
 27.2N 51.8E

TABLE 2

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

VSBY (INH)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCP	TOTAL OBS
<1/2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.2
1<2	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1
2<5	.1	.2	.1	.1	.2	.0	.1	1.9	.0	.0	.0	3.2
5<10	.2	.1	.1	.3	.3	.1	.1	.6	.0	.0	.0	1.8
10+	.1	.0	.2	.1	.1	.2	.0	.1	.0	.0	.0	.8
TOT OBS	12.9	4.2	7.1	9.5	4.3	2.5	10.5	41.5	.0	7.4	100.0	891
TOT PCP												
NO PCP	11.0	3.7	5.7	7.1	2.7	2.1	9.8	33.1	.0	6.6	81.8	
TOT %	11.1	3.7	5.9	7.2	2.8	2.3	9.8	33.3	.0	6.6	82.6	

PERIOD: (PRIMARY) 1948-1970  
 (OVER-ALL) 1985-1970

DECEMBER

AREA 0023 N. E. PERSIAN GULF  
 27.2N 51.8E

TABLE 9

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

VS1Y {NY}	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALH	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT X	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1
	TOT X	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.2	.2
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	TOT X	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
2<5	0-3	.1	.0	.0	.1	.0	.0	.0	.3	.0	.0	.4	.4
	4-10	.0	.0	.0	.4	.3	.0	.1	.9	.0	.0	1.2	1.2
	11-21	.2	.2	.0	.1	.0	.0	.0	.1	.0	.0	2.0	2.0
	TOT X	.2	.2	.0	.6	.3	.0	.1	2.4	.0	.0	3.9	3.9
5<10	0-3	.5	.0	.2	.4	.1	.0	.1	.2	.0	.8	1.9	1.9
	4-10	.7	.3	.5	.8	.8	.1	.5	2.2	.0	.0	5.7	5.7
	11-21	.4	.0	.2	.8	.4	.0	.0	2.8	.0	.0	4.7	4.7
	TOT X	1.6	.3	.9	1.8	1.3	.1	.6	5.6	.0	.8	13.3	13.3
10<	0-3	.8	.3	.6	.8	.3	.5	1.2	1.9	.0	6.7	13.6	13.6
	4-10	6.2	2.0	3.7	3.6	1.6	1.5	5.4	14.3	.0	38.6	38.6	
	11-21	5.2	.7	1.4	2.3	.6	.2	2.7	14.9	.0	28.5	28.5	
	TOT X	17.4	4.0	5.9	7.1	2.7	2.3	9.7	33.0	.0	82.5	82.5	
TOT OBS												942	
TOT PCT		13.3	4.0	7.0	9.5	4.4	2.4	10.3	41.1	.0	7.5	100.0	

PERIOD: (PRIMARY) 1948-1970  
 (OVER-ALL) 1885-1970

DECEMBER

AREA 0023 N. E. PERSIAN GULF  
 27.2M 51.8E

TABLE 10  
 PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NH >4/8) AND  
 OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	8000+	8000+	TOTAL NH <5/8 ANY HGT	TOTAL NH <5/8 TOTAL OBS
00003	.0	.0	.5	1.1	4.3	3.3	1.6	.0	.5	1.6	13.0	87.0	184
06009	.5	.0	.0	2.4	5.9	5.4	1.5	1.5	2.0	1.0	20.0	80.0	205
12015	.0	.0	1.0	1.5	5.4	.5	2.9	3.4	.5	.5	15.6	84.4	205
18021	.0	.5	.0	.0	2.1	2.7	1.6	1.6	.0	2.1	10.7	89.3	187
TOT	1	1	3	10	35	23	15	13	6	10	117	664	781
PCT	.1	.1	.4	1.3	4.5	2.9	1.9	1.7	.8	1.3	15.0	85.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.0	.0	.0	2.3	5.0	53.7	177
06009	.0	.5	.0	1.5	5.7	92.3	194
12015	.0	.5	.0	1.6	9.5	88.4	189
18021	.0	.0	.0	1.7	7.9	90.4	177
TOT	0	2	0	13	57	663	735
PCT	.0	.5	.0	1.8	7.8	90.2	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<500 <1	<1000 <5	1000+ ANOS+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.6	3.4	11.4	85.1	175
06009	.5	1.0	5.2	16.5	78.4	194
12015	.0	1.6	4.8	12.7	82.5	189
18021	.0	.6	2.3	10.7	87.0	177
TOT	1	7	29	95	611	735
PCT	.1	1.0	3.9	12.9	83.1	100.0

DECEMBER

00-1004 (PRIMARY) 1948-1970  
(OVER-ALL) 1825-1970

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	VAR			
80/84	.0	.0	.2	.5	1.2	.2	.0	.0	12	2.0		
75/79	.0	.2	1.3	4.6	8.1	6.9	2.4	1.5	148	25.0		
70/74	.0	.5	1.7	9.6	13.3	8.1	3.7	3.4	259	40.3		
65/69	.0	.2	1.2	5.1	6.1	5.4	3.5	1.3	135	22.3		
60/64	.0	.0	.5	.7	2.2	2.2	2.4	1.5	56	9.4		
55/59	.0	.0	.0	.2	.2	.2	.0	.0	3	.5		
TOTAL	.0	.5	29	122	184	135	71	46	593	100.0		
PCT	.0	.8	4.9	20.6	31.0	22.9	12.0	7.8				

TABLE 14

TEMP F	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										TOTAL OBS	PCT FREQ
	N	NE	E	SE	S	SW	W	NW	VAR	CALM		
80/84	.2	.0	.0	.2	.1	.0	.4	.6	.0	.5		
75/79	1.2	1.5	3.0	5.0	1.7	.9	3.0	6.7	.0	2.0		
70/74	3.6	1.1	2.7	2.1	1.1	1.6	6.9	17.4	.0	3.9		
65/69	4.6	1.0	1.8	.8	.4	.8	1.8	11.1	.0	.5		
60/64	3.2	.6	.3	.2	.0	.0	.5	4.3	.0	.3		
55/59	.1	.2	.0	.0	.0	.0	.2	.0	.0	.0		
TOTAL	75	25	46	49	19	19	75	239	.0	43		
PCT	12.8	4.3	7.8	8.3	3.3	3.3	12.6	40.4	.0	7.3		

TABLE 15

HOURL (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (OEG F) BY HOURL										TOTAL OBS
	MAX	95%	90%	80%	70%	60%	50%	40%	30%	20%	
0000	82	78	76	71	62	60	59	70.2	243		
0600	84	83	81	72	63	60	59	72.2	256		
1200	84	83	79	73	64	60	59	72.5	249		
1800	81	78	77	71	63	60	59	70.5	263		
TOT	84	82	78	72	63	60	59	71.4	1011		

TABLE 16

HOURL (GMT)	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOURL										TOTAL OBS
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	VAR	
0000	.0	17.1	28.3	28.3	28.3	28.3	17.8	8.6	71	152	
0600	.0	26.8	28.6	28.6	28.6	24.2	9.2	9.2	68	153	
1200	.0	31.1	37.8	37.8	37.8	14.6	11.0	5.5	66	164	
1800	.0	27.7	29.0	29.0	29.0	24.5	12.3	6.5	68	155	
TOT	0	164	194	194	142	78	46	68	68	624	

PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1885-1970

DECEMBER

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 17

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

AIR-SEA TEMP DIF	57	61	65	69	73	77	81	TOT	W FOG	MO FOG
9/10	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
7/8	.0	.0	.0	.0	.0	.0	.3	2	.0	.3
6	.0	.0	.0	.0	.3	.3	.3	6	.0	.9
5	.0	.0	.0	.0	.4	.1	.0	4	.0	.6
4	.0	.0	.0	.0	.3	.1	.1	4	.0	.6
3	.0	.0	.0	.1	.4	.6	.3	10	.0	1.5
2	.0	.0	.1	.4	.9	1.5	.1	21	.0	3.0
1	.0	.0	.1	.6	1.9	1.3	.3	29	.0	4.2
0	.0	.1	.4	.6	2.0	1.6	.1	34	.0	4.9
-1	.0	.0	.1	.7	4.5	1.3	.0	46	.0	6.7
-2	.0	.0	.7	2.8	5.1	2.8	.1	79	.0	11.5
-3	.0	.0	.7	2.3	4.2	1.5	.1	61	.0	8.9
-4	.1	.1	1.3	3.8	3.3	.3	.0	62	.0	9.0
-5	.0	.3	2.0	4.8	2.9	.3	.0	71	.0	10.3
-6	.0	.6	2.9	4.4	1.3	.0	.0	63	.0	9.1
-7/8	.0	1.6	6.0	6.5	2.5	.1	.0	115	.0	16.7
-9/10	.1	1.9	2.9	1.9	.0	.0	.0	47	.0	6.8
-11/13	.6	2.5	1.0	.1	.0	.0	.0	29	.0	4.2
-14/16	.0	.4	.1	.1	.0	.0	.0	5	.0	.7
TOTAL	6	52	128	201	207	82	13	699	0	689
PCT	.9	7.5	18.6	29.2	30.0	11.9	1.9	100.0	0	100.0

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

DECEMBER  
TABLE 16

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

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

HGT	N				NE				PCT				
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10		11-21	22-33	34-47	48+
<1	.6	.6	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0
1-2	.0	3.9	1.1	.0	.0	.0	5.0	2.0	.0	.0	.0	.0	2.1
3-4	.0	1.7	.5	.0	.0	.0	2.1	.0	.6	.0	.0	.0	.6
5-6	.0	.6	1.8	.0	.0	.0	2.4	.0	.6	.0	.0	.0	.6
7	.0	.0	.5	.6	.0	.0	1.1	.0	.6	.0	.0	.0	.6
9-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	6.8	3.8	.6	.0	.0	11.8	2.0	1.8	.0	.0	.0	3.9

HGT	E				SE				PCT				
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10		11-21	22-33	34-47	48+
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.5	2.4	.0	.0	.0	.0	2.9	2.4	.6	.0	.0	.0	3.6
3-4	.0	.6	.0	.0	.0	.0	.5	1.2	1.2	.0	.0	.0	2.4
5-6	.0	.0	.5	.0	.0	.0	.5	.0	1.1	.0	.0	.0	1.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6
9-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	3.0	.5	1.4	.0	.0	5.3	2.4	3.6	2.9	1.1	.0	10.0



PERIOD (PRIMARY)  
(COVER-ALL) 1963-1970

DECEMBER  
TABLE 18

AREA 0023 N. F. PERSIAN GULF  
27.2N 51.8E

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

HGT <1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25 26-32 33-40 41-48 49-60 61-70 71-86 87+	S				SH				TOT PCT					
	1-3	4-10	11-21	22-33	24-47	48+	PCT	1-3		4-10	11-21	22-33	34-47	48+
<1	.0	.5	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.2
1-2	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2
3-4	.0	.6	.6	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.5	.9	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.5	1.5	.0	.0	.0	3.0	.0	.0	.5	.0	.0	.0	.5

HGT <1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25 26-32 33-40 41-48 49-60 61-70 71-86 87+	M				NW				TOT PCT					
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3		4-10	11-21	22-33	34-47	48+
<1	1.7	.6	.0	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	3.8
1-2	.0	3.9	.0	.0	.0	.0	3.9	.0	.0	8.0	.0	.0	.0	21.1
3-4	.0	1.2	.6	.9	.0	.0	2.7	.0	.0	7.4	3.3	.0	.0	13.9
5-6	.0	.0	1.5	.0	.0	.0	1.5	.0	.0	2.4	8.8	.0	.0	11.2
7	.0	.0	.5	.0	.0	.0	.5	.0	.0	.0	1.2	.0	.0	3.9
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	3.8	3.0	.9	.0	.0	11.4	.0	2.0	20.5	4.5	.0	.0	54.1

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

DECEMBER

TABLE 18 (CONT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	16.8	3.1	.0	.0	.0	.0	22.0	
1-2	1.0	24.1	8.4	.0	.0	.0	33.2	
3-4	.0	7.3	9.4	3.7	.0	.0	20.4	
5-6	.0	3.1	13.1	.0	.0	.0	16.2	
7	.0	.0	3.7	2.1	.0	.0	5.8	
8-9	.0	.0	.0	1.0	.0	.0	1.0	
10-11	.0	.0	.5	1.5	.0	.0	1.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	191
TOT PCT	15.9	37.7	35.1	7.3	.0	.0	100.0	

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<1	4.6	27.8	16.1	5.1	1.2	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32.6	3
<6	.0	.7	3.9	5.4	2.7	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
6-7	.0	.2	.3	.7	1.2	.5	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
8-9	.0	.0	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
10-11	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
12-13	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5
>13	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5
INDET	11.9	7.6	1.5	.8	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
TOTAL	1.1	21.4	15.0	7.5	3.4	1.2	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.6	1
PCT	20.5	36.3	22.0	12.7	5.8	2.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	3

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PERIOD: (PRIMARY) 1926-1971  
(OVER-ALL) 1864-1971

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN		ORZL		PRECIPITATION TYPE			HAIL		PCT FREQ		TOTAL		THDR		OTHER WEATHER PHENOMENA				TOTAL		
	SHWR	SHWR	PCPN	PCPN	FRZG	SNOW	OTHER	FRZN	PCPN	AT	JE TIME	PCPN	OBS	LTNG	PCPN	WV	HAZE	BLWG	DUST	SIG	OBS	
N	.1	*	.0	.0	.0	.0	.0	.0	.0	.1	.1	13		.1	.1	.5	.3	.3	.3	.3	7.9	900
NE	*	*	.0	.0	.0	.0	.0	.0	.0	.1	.1	11		.1	*	.2	*	*	*	*	2.6	297
E	.1	*	.0	.0	.0	.0	.0	.0	.0	.2	.2	20		.1	*	.4	.1	.1	.1	.1	5.1	579
SE	.2	*	.0	.0	.0	.0	.0	.0	.0	.3	.3	25		.1	*	.6	.1	.1	.1	.1	7.8	686
S	.1	*	.0	.0	.0	.0	.0	.0	.0	.1	.1	10		*	*	.3	.1	.1	.1	.1	3.1	357
SW	*	*	.0	.0	.0	.0	.0	.0	.0	.1	.1	9		*	*	.4	*	*	*	*	3.1	356
W	*	*	.0	.0	.0	.0	.0	.0	.0	.1	.1	5		.1	.2	1.3	.7	.7	.7	.7	15.4	1739
NW	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	.2	25		.2	.5	2.5	1.6	1.6	1.6	1.6	33.0	3757
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2		*	*	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	2		*	*	1.0	.4	.4	.4	.4	8.7	995
TOT OBS	69	28	25	0	0	0	0	0	2			124		64	105	683	321	852	10	852	9869	
TOT PCT	.7	.3	.2	.0	.0	.0	.0	.0	*	1.2	1.2			.6	1.1	7.2	3.4	3.4	3.4	86.6	100.0	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN		ORZL		PRECIPITATION TYPE			HAIL		PCT FREQ		TOTAL		THDR		OTHER WEATHER PHENOMENA				TOTAL		
	SHWR	SHWR	PCPN	PCPN	FRZG	SNOW	OTHER	FRZN	PCPN	AT	OB TIME	PCPN	OBS	LTNG	PCPN	WV	HAZE	BLWG	DUST	SIG	OBS	
0003	1.0	.2	.3	.0	.0	.0	.0	.0	.0	.6	1.6	40		1.3	.7	6.3	3.4	3.4	3.4	3.4	86.9	2460
0609	.7	.3	.3	.0	.0	.0	.0	.0	.0	1.3	34		.2	1.9	7.8	3.2	85.7	3.2	85.7	3.2	2431	
1215	.5	.2	.1	.0	.0	.0	.0	.0	.0	1.0	29		.1	.9	7.9	3.7	86.5	3.7	86.5	3.7	2817	
1821	.4	.2	.3	.0	.0	.0	.0	.0	*	.9	25		1.0	.8	6.5	3.2	87.6	3.2	87.6	3.2	2573	
TOT	71	29	26	0	0	0	0	0	2		128		66	113	723	341	9121	341	9121	341	10481	
PCT	.7	.3	.2	.0	.0	.0	.0	.0	*	1.2	1.2		.6	1.1	7.2	3.4	86.7	3.4	86.7	3.4	100.0	

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PERIOD: (PRIMARY) 1936-1971  
(OVER-ALL) 1864-1971

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										WIND DIRECTION BY HOUR						
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPO	00	03	05	09	12	15	18	21
N	1.4	4.7	2.6	.4	*	.0	1121	0.2	9.1	11.1	8.3	11.0	10.0	6.6	7.1	8.9	8.3
NE	.8	1.9	1.5	*	*	.0	390	3.2	6.5	3.8	6.5	3.7	3.3	1.9	4.5	3.0	3.5
E	1.1	3.8	1.0	.1	*	.0	724	5.9	7.0	5.6	10.3	7.8	6.1	4.6	5.0	5.5	6.1
SE	1.6	5.3	2.0	.2	*	.0	1112	9.1	7.6	7.4	9.3	9.0	11.4	10.6	8.7	8.0	10.3
S	1.1	2.2	.5	*	.0	.0	466	3.8	6.6	2.7	2.1	3.5	5.1	5.2	4.9	3.4	4.1
SW	1.0	2.3	.4	.1	.0	.0	455	3.8	6.8	3.3	4.0	2.9	3.8	4.9	4.0	3.5	4.9
W	2.5	10.5	4.2	* .5	* .0	.0	2156	17.8	8.9	16.7	18.9	16.1	17.2	20.6	19.7	17.5	15.3
NK	3.0	17.9	14.0	2.5	.1	.0	4553	37.4	11.0	34.8	33.0	36.9	36.2	38.9	39.9	38.8	36.9
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.9	.0	.0	.0	.0	.0	1190	9.9	8.4	14.5	7.6	9.1	6.9	6.5	6.1	11.4	10.5
TOT OBS	2695	5892	3086	480	16	0	12169	100.0	8.4	2493	251	2334	621	2819	361	2521	1556
TOT PCT	22.3	48.6	25.2	3.9	.1	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										WIND DIRECTION BY HOUR					
	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPO	00	03	05	09	12	15	18	21
N	3.8	4.2	1.1	.1	.0	1121	9.2	9.1	10.8	10.7	6.7	6.7	8.8	8.8	8.8	8.8
NE	2.0	1.1	1.1	*	.0	390	3.2	6.5	3.9	3.7	2.2	2.2	3.1	3.1	3.1	3.1
E	3.3	2.3	.3	*	.0	724	5.9	7.0	6.0	7.4	4.7	4.7	5.6	5.6	5.6	5.6
SE	4.5	2.7	.8	.1	.0	1112	9.1	7.6	7.6	9.5	10.3	10.3	8.5	8.5	8.5	8.5
S	2.5	1.1	.2	*	.0	456	3.8	6.6	2.7	3.8	5.1	5.1	3.6	3.6	3.6	3.6
SW	2.4	1.3	.1	*	.0	455	3.8	6.8	3.4	3.1	4.8	4.8	3.7	3.7	3.7	3.7
W	7.6	8.4	1.6	.1	.0	2156	17.8	8.9	17.0	16.3	20.5	17.1	17.1	17.1	17.1	17.1
NK	10.6	19.4	6.7	.5	*	4553	37.4	11.0	34.9	36.8	39.0	38.3	38.3	38.3	38.3	38.3
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.9	.0	.0	.0	.0	1190	9.9	8.4	13.7	8.7	6.5	6.5	11.2	11.2	11.2	11.2
TOT OBS	5629	5094	1341	103	2	12169	100.0	8.4	2744	3165	3180	3080	3080	3080	3080	3080
TOT PCT	46.5	41.8	10.9	.8	*	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)				PCT FREQ	TOTAL OBS
	1-3	4-10	11-21	22-33		
0000	13.7	11.8	46.9	23.7	8.0	2744
0600	8.7	14.2	44.1	34.6	2.3	3145
1200	6.5	11.2	50.8	44.5	9.0	2180
1800	11.2	12.3	48.2	34.6	8.2	3080
TOT	1190	1505	5892	3086	8.4	12169
PCT	9.9	12.4	48.6	25.2	100.0	

TABLE 5

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

WIND DIR	TOTAL CLOUD AMOUNT (EIGHTHS)								TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-6	8-6	8-6	8-6	8-6		
N	6.5	.8	1.0	.5	1.5	762	1.5			
NE	2.0	.3	.4	.2	1.8	251	1.8			
E	3.8	.5	1.0	.4	4.97	497	2.0			
SE	5.6	.8	1.5	.8	7.52	752	2.1			
S	2.6	.3	.6	.2	3.09	309	3.2			
SW	5.1	.2	.2	.2	3.15	315	1.6			
W	15.2	1.2	1.1	.5	15.39	1539	1.1			
NW	31.3	2.5	2.9	1.0	32.38	3238	1.1			
VAR	.0	.0	.0	.0	.0	0	.0			
CALM	9.1	.6	.4	.2	8.87	887	.9			
TOT OBS	6707	632	843	371	8553	1.3				
TOT PCT	76.2	7.2	9.5	4.1	100.0					

TABLE 6

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

WIND DIR	CEILING HEIGHTS (FT, NH > 4/8)								TOTAL OBS	ANY HGT OBS
	000	149	299	599	1000	1500	2000	3000		
N	.1	.0	.0	.0	.1	.3	.2	.1	.1	762
NE	.0	.0	.0	.0	.1	.1	.1	.1	.1	251
E	.0	.0	.0	.0	.2	.2	.2	.1	.1	497
SE	.0	.0	.0	.0	.2	.2	.2	.1	.1	752
S	.0	.0	.0	.0	.1	.1	.1	.1	.1	309
SW	.0	.0	.0	.0	.2	.2	.2	.1	.1	315
W	.0	.0	.0	.0	.2	.2	.2	.1	.1	1539
NW	.0	.0	.0	.0	.2	.2	.2	.1	.1	3238
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.2	.2	.1	.1	.1	887
TOT OBS	18	3	5	54	191	126	86	49	37	8553
TOT PCT	.2	.3	.5	1.3	2.1	1.4	1.0	.5	.4	100.0

PERIOD: (PRIMARY) 1536-1971  
 (OVER-ALL) 1864-1971

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TABLE 7

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

CEILING (FEET)	>10		>5		>2		VSBY (NM)		>1/2		>1/4		>5000		>0	
	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR
OR >6500	1.0	1.0	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
OR >5000	1.4	2.0	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
OR >3500	2.1	2.9	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
OR >2000	3.0	4.3	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
OR >1000	4.4	6.0	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
OR >500	4.7	6.5	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
OR >300	4.8	6.6	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
OR >150	4.8	6.6	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
OR >0	4.8	6.7	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
TOTAL	453	626	685	688	688	691	691	691	691	694	694	694	694	696	696	696

TOTAL NUMBER OF OBS 9056

PCT FREQ NH <5/8 92.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL
	69.5	12.3	5.0	3.0	2.1	1.8	2.1	1.7	2.2	.2	9630

TABLE 8  
 PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
 PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISY (INH)	PCF NO PCP TOT %	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*
	NO PCP TOT %	*	*	*	*	*	*	*	.1	.0	*	.3	.3
1/2<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*
	NO PCP TOT %	*	*	*	*	*	*	*	.1	.0	*	.2	.3
1<2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*
	NO PCP TOT %	.1	.1	.1	.1	.1	.1	.2	.5	.0	*	1.1	1.1
2<5	.2	.1	.2	.2	.2	.2	.2	.6	1.6	.0	.0	.2	3.6
	NO PCP TOT %	.2	.1	.2	.3	.2	.2	.6	1.6	.0	.3	3.8	
5<10	.1	.5	1.1	2.0	.9	.9	1.0	3.3	7.1	.0	.0	.5	19.7
	NO PCP TOT %	1.9	.6	1.1	2.2	.9	1.0	3.4	7.1	.0	2.0	19.7	20.2
10+	.6	2.3	4.3	6.3	2.5	2.4	13.4	28.2	.1	.0	*	.4	74.0
	NO PCP TOT %	5.9	2.3	4.4	6.3	2.5	2.4	13.4	28.4	.0	7.6	74.0	74.4
TOT PCP	9.1	3.0	5.9	8.9	3.6	3.7	17.7	37.9	.0	10.2	100.0	9854	

PERIOD (PRIMARY) 1936-1971  
(COVER-ALL) 1864-1971

ANNUAL

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 9

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

VSBY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0	.3	.3
	11-21	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0	.3	.3
	TOT %	.0	.0	.0	.0	.0	.0	.2	.5	.0	.0	.6	.6
2<5	0-3	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0	.3	.3
	4-10	.1	.1	.1	.1	.1	.1	.2	.4	.0	.0	.7	.7
	11-21	.1	.1	.1	.1	.1	.1	.2	.4	.0	.0	.7	.7
	TOT %	.2	.2	.2	.2	.2	.2	.4	.8	.0	.0	.7	.7
5<10	0-3	.2	.2	.2	.2	.2	.2	.3	.5	.0	.0	.5	.5
	4-10	.9	.3	.6	1.2	.5	.6	1.9	3.1	.0	.0	9.0	9.0
	11-21	.4	.0	.2	.6	.1	.1	.5	2.6	.0	.0	4.8	4.8
	TOT %	1.7	.5	1.1	2.2	.9	.9	3.2	6.7	.0	.0	19.2	19.2
10+	0-3	1.0	.6	.8	1.1	.8	.6	2.0	2.3	.0	.0	7.6	7.6
	4-10	3.7	1.6	3.0	4.0	1.4	1.7	8.3	14.2	.0	.0	37.6	37.6
	11-21	2.1	.3	.7	1.3	.3	.2	3.2	10.5	.0	.0	18.7	18.7
	TOT %	7.2	2.5	4.6	6.5	2.6	2.6	13.7	28.4	.0	.0	73.5	73.5
TOT OBS		9.1	3.1	6.0	9.1	3.7	3.7	17.8	37.4	.0	10.0	100.0	11484



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PERIOD: (PRIMARY) 1936-1971  
(OVER-ALL) 1866-1971

AREA 0323 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 10

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

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL NH <5/8 ANY HGT	TOTAL NH <5/8
	14.9	299	599	999	1999	3499	4999	6499	7999			085
00003	.1	.0	.1	.5	2.3	1.4	1.0	.4	.2	1.2	7.2	92.8
06009	.3	*	.1	.7	2.4	1.8	.8	.2	.6	1.0	6.0	92.0
12015	.3	*	.1	.6	1.9	1.0	1.1	.7	.4	1.4	7.4	92.6
18021	.1	*	.0	.4	1.3	1.1	.7	.6	.3	1.2	5.8	94.2
TOT	19	3	6	55	136	129	90	49	37	119	703	8838
PCT	.2	*	.1	.6	2.0	1.3	.9	.5	.4	1.2	7.1	92.9
												100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL DBS
00003	.3	.2	.3	3.1	16.0	50.1	2103
06009	.4	.2	.8	3.8	15.7	79.0	2275
12015	.2	.3	.4	3.6	17.3	78.2	2485
18021	.2	.1	.2	3.0	17.3	79.1	2199
TOT	22	21	36	394	1474	7215	9062
PCT	.3	.2	.4	3.4	16.6	79.1	100.0

TABLE 12

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

HOUR (GMT)	<150	<600	<1000	1000+	NH <5/8	TOTAL DBS
00003	.2	.6	4.4	6.5	89.1	2103
06009	.4	1.0	6.1	6.4	87.6	2275
12015	.2	.7	5.1	5.9	89.0	2485
18021	.2	.5	4.1	5.2	90.7	2199
TOT	23	63	433	566	8063	9062
PCT	.3	.7	4.9	6.0	89.1	100.0

ANNUAL

PERIOD: (PRIMARY) 1936-1971  
(COVER-ALL) 1864-1971

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OCS	PCT FREQ
100/104	.0	.0	.0	.1	.1	.9	.0	.0	12	.2
95/79	.0	.0	.2	.6	1.6	3.2	7.2	4.0	256	3.3
90/54	.0	.0	.2	1.8	3.2	5.7	4.9	1.1	1453	19.5
85/89	.0	.0	.4	1.8	4.2	3.3	2.6	1.5	1407	18.7
80/84	.0	.0	.6	1.6	3.6	3.3	2.6	1.3	1019	13.0
75/79	.0	.0	.5	1.4	2.8	4.2	2.0	1.1	948	12.0
70/74	.0	.0	.4	1.8	3.8	4.0	3.6	1.9	1226	15.0
65/69	.0	.0	.2	1.7	3.4	3.5	2.9	1.3	1086	13.0
60/64	.0	.0	.2	.8	1.4	1.1	.9	.5	394	4.8
55/59	.0	.0	.0	.1	.1	.1	.0	.0	28	.3
50/54	.0	.0	.0	.0	.1	.0	.0	.0	10	.1
45/49	.0	.0	.0	.0	.0	.0	.0	.0	3	.0
TOTAL	.0	.0	.2	217	920	2041	2351	1606	687	7842
PCT	.0	.3	2.8	11.8	26.0	29.9	20.5	8.7		100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM	#
100/104	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
95/79	.3	.4	.2	.3	.1	.2	.7	1.3	.0	.3	.3
90/54	1.2	.5	.9	1.6	.9	.9	4.5	6.7	.0	2.0	2.0
85/89	1.2	.5	.8	1.0	.6	1.0	4.4	6.5	.0	2.4	2.4
80/84	1.2	.5	1.0	1.6	.4	.4	1.8	3.9	.0	1.6	1.6
75/79	1.3	.5	1.1	1.9	.5	.4	2.5	5.6	.0	1.4	1.4
70/74	1.6	.4	1.7	1.2	.4	.3	1.8	5.9	.0	.8	.8
65/69	.9	.2	.1	.1	.1	.1	.5	2.5	.0	.3	.3
60/64	.1	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0
55/59	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
50/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
45/49	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	7.01	2.42	4.73	6.98	2.69	2.98	14.80	29.11	.0	7.68	7.68
PCT	8.9	3.1	6.0	8.8	3.4	3.8	19.0	37.1	.0	9.9	9.9

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00203	100	85	83	78	73	70	45	78.0	2882
06509	103	90	87	81	75	72	48	80.7	3226
12615	105	92	89	82	75	72	44	81.5	3204
18621	100	86	84	79	73	71	44	78.9	3152
TOT	105	90	87	80	74	71	44	79.6	12533

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00203	.0	8.6	20.9	29.8	27.6	12.9	76	1972
06509	.0	15.1	26.8	30.3	20.0	6.9	72	2041
12615	.0	22.2	32.8	29.6	11.3	4.0	68	2213
18621	.0	10.4	22.5	30.4	25.4	10.9	75	2090
TOT	.0	12.5	21.52	28.94	17.35	7.20	73	8316

AREA 0023 N. F. PERSIAN GULF  
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PERIOD: (PRIMARY) 1936-1971  
(OVER-ALL) 1864-1971

TABLE 17

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

AIR-SEA TMP DIF	41	45	49	53	57	61	65	69	73	77	81	85	89	93	TOT	N	NO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.2	.1	19	.0	.2
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.2	.2	.5	.3	79	*	.8
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.2	.2	.5	.3	144	*	1.5
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	.5	.5	.6	.4	277	.1	2.8
6	.0	.0	.0	.0	.0	.0	.0	.1	.2	.3	.4	.3	.4	.4	189	.1	2.0
5	.0	.0	.0	.0	.0	.0	.0	.1	.2	.5	.4	.6	.7	.6	292	.1	3.2
4	.0	.0	.0	.0	.0	.0	.1	.2	.4	.8	.7	1.1	1.1	.8	476	.2	5.2
3	.0	.0	.0	.0	.0	.0	.1	.3	.8	.7	.6	.8	1.5	1.2	530	.1	6.0
2	.0	.0	.0	.0	.0	.0	.2	.6	1.1	.9	1.1	1.8	2.2	1.1	754	.1	9.0
1	.0	.0	.0	.0	.0	.1	.3	1.0	1.4	.7	1.1	1.5	2.1	.6	773	.1	8.7
0	.0	.0	.0	.0	.0	.2	.6	1.7	1.4	1.0	1.3	2.3	2.9	.5	1042	.1	11.9
-1	.0	.0	.0	.0	.0	.3	.9	1.6	1.2	.8	1.1	1.7	2.1	.3	877	*	10.0
-2	.0	.0	.0	.0	.0	.3	1.0	1.6	.9	.9	1.1	1.5	1.5	.3	799	.1	19.1
-3	.0	.0	.0	.0	.0	.2	1.2	1.2	.7	.8	.8	1.2	.9	.3	673	*	7.0
-4	.0	.0	.0	.0	.0	.4	1.4	1.9	.6	.7	.6	.7	.4	.0	501	*	5.7
-5	.0	.0	.0	.0	.0	.5	1.3	1.9	.6	.4	.4	.5	.2	.0	397	*	4.5
-6	.0	.0	.0	.0	.1	.5	1.0	.7	.4	.2	.3	.2	.2	.0	290	.0	3.3
-7/-8	.0	.0	.0	.0	.2	.6	1.2	.8	.5	.1	.2	.1	.1	.0	348	.0	4.1
-9/-10	.0	.0	.0	.0	.1	.6	.5	.3	.1	.1	.1	.1	.0	.0	151	*	1.8
-11/-13	.0	.0	.0	.0	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	66	.0	.8
-14/-16	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	21	.0	.3
-17/-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.0
-20/-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.0
TOTAL	1	2	7	7	66	362	871	1099	967	851	907	1328	1420	546	8686	92	8508
PCT	.1	.2	.1	.1	.8	4.2	9.8	12.3	10.9	9.6	10.9	15.1	17.3	6.7	100.0	1.1	97.8

PERIOD: (PRIMARY)  
(OVER-ALL) 1953-1971

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TABLE 18

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

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

HGT <1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25 26-32 33-40 41-48 49-60 61-70 71-86 87+	N					NE					48+	PCT	
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33			34-47
1-3	.8	1.4	#	.0	.0	.0	.4	1.7	.0	.0	.0	.0	1.1
1-2	.3	2.7	.6	.0	.0	.0	.2	1.1	#	.0	.0	.0	1.3
3-4	#	.6	.5	#	.0	.0	.0	.1	.5	.0	.0	.0	.3
5-6	.0	.2	.7	.2	.0	.0	.0	.0	.1	.0	.0	.0	.1
7	.0	.1	.1	.1	.0	.0	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	#	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	5.0	2.9	.5	.0	.0	.6	1.8	.6	.0	.0	.0	3.0

HGT <1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25 26-32 33-40 41-48 49-60 61-70 71-86 87+	E					SE					48+	PCT	
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33			34-47
1-3	.5	1.4	.0	.0	.0	.0	1.2	2.0	.1	.0	.0	.0	3.2
1-2	.2	1.6	.3	.0	.0	.0	.4	3.1	1.1	.0	.0	.0	4.7
3-4	#	.4	.6	.0	.0	.0	.0	.9	.8	.0	.0	.0	1.7
5-6	.0	.0	.2	.0	.0	.0	.0	.2	.4	.1	.0	.0	.6
7	.0	.0	.1	.0	.0	.0	.0	.4	.0	.1	.0	.0	.1
8-9	.0	.0	.0	.1	.0	.0	.0	.0	.0	#	.0	.0	#
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	3.4	1.1	.2	.0	.0	1.6	6.2	2.4	.2	.0	.0	10.4

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TABLE 16  
AREA 0023 N. E. PERSIAN GULF  
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PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1971

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

HGT	S										SW			48+	PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47			
<1	1.0	.9	#	.0	.0	.0	1.9	.8	1.3	.0	.0	.0	.0	2.3	
1-2	1.3	1.2	.2	.0	.0	.0	1.7	.1	.9	.1	.0	.0	.0	1.1	
3-4	.0	.5	.4	.0	.0	.0	.9	.0	.5	.0	.0	.0	.0	.5	
5-6	.0	.1	.2	.0	.0	.0	.3	.0	#	#	#	.0	.0	.1	
7	.0	.6	.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	
13-15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.2	2.8	.8	.6	.0	.0	4.8	.9	2.8	.1	#	.0	.0	3.8	

HGT	W										NW			48+	PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47			
<1	1.7	3.0	.1	.0	.0	.0	4.8	.4	4.1	.1	.0	.0	.0	5.5	
1-2	.4	2.2	.9	.0	.0	.0	6.5	.8	9.8	3.8	.0	.0	.0	14.4	
3-4	.0	1.5	2.1	.1	.0	.0	3.7	.2	4.1	8.6	.9	.0	.0	13.9	
5-6	.0	.4	1.4	.2	.0	.0	2.0	.0	1.0	5.4	1.0	.0	.0	7.4	
7	.0	.0	1.5	.3	.0	.0	.7	.0	.1	1.7	1.1	#	.0	2.9	
8-9	.0	.0	#	#	.0	.0	.1	.0	.0	.1	.3	#	.0	.5	
10-11	.0	.0	.0	.0	.0	.0	#	.0	.0	#	.3	.0	.0	.3	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.0	10.1	5.1	.6	.0	.0	17.9	2.3	19.0	19.8	3.9	.1	.0	45.2	

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

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AREA 0023 N. E. PERSIAN GULF  
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TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOT DBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT				
<1	21.0	12.8	.3	.0	.0	.0	34.1				
1-2	2.6	21.5	6.1	.0	.0	.0	30.2				
3-4	.2	7.3	12.2	.9	.0	.0	20.7				
5-6	.0	1.6	7.1	1.3	.0	.0	10.0				
7	.0	.1	2.0	1.3	.0	.0	3.6				
8-9	.0	.0	.2	.6	.0	.0	.8				
10-11	.0	.0	.1	.3	.0	.0	.4				
12	.0	.0	.0	.2	.0	.0	.2				
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	23.8	43.4	28.0	4.7	.1	.0	100.0	2310			

TABLE 19

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

PERIOD (SEC)	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)													TOTAL	MEAN HGT						
	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32			33-40	41-48	49-60	61-70	71-86	
<6	10.3	24.0	15.9	4.1	1.0	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3754	2
6-7	.1	1.0	3.3	3.3	1.5	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	666	5
8-9	.0	.2	.5	.7	.8	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	182	9
10-11	.0	.2	.1	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	49	6
12-13	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	9
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	7
INDEX	27.4	5.0	2.2	.6	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2042	1
TOTAL	2157	2027	1483	612	263	31	38	19	.6	1	0	.6	.0	.0	.0	.0	.0	.0	.0	5688	2
PCT	32.7	30.3	22.0	9.0	3.8	1.2	.6	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIODS (PRIMARY) 1948-1971  
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TABLE 20

AREA 0023 N. E. PERSIAN GULF  
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PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEC F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
94+	.0	.0	.0	.0	.0	.0	.0	.7	.3	.0	.0	.0	9	.1
95/96	.0	.0	.0	.0	.0	.0	.3	6.5	3.3	.1	.0	.0	93	.9
93/94	.0	.0	.0	.0	.0	.6	4.4	24.1	12.9	1.4	.0	.0	393	3.6
91/92	.0	.0	.0	.0	.1	2.2	17.2	39.9	30.4	6.3	.1	.0	862	7.9
89/90	.0	.0	.0	.0	.5	9.8	32.3	17.9	29.9	20.7	.5	.0	987	9.1
87/88	.0	.0	.0	.0	1.5	19.9	23.6	7.0	11.1	27.7	1.0	.0	826	7.6
85/86	.0	.0	.0	.0	6.3	27.1	12.8	1.5	6.6	23.8	13.5	.2	809	7.4
83/84	.0	.0	.0	.2	14.5	23.0	4.7	1.2	4.7	11.9	22.2	.5	739	6.8
81/82	.0	.0	.0	2.0	24.2	11.5	2.9	1.0	.9	6.1	29.0	4.4	735	6.8
79/80	.2	.2	.7	5.7	23.9	4.7	1.3	.2	.0	1.1	16.8	12.8	609	5.6
77/78	1.2	.1	.9	10.8	14.5	1.2	.4	.0	.0	1.1	9.9	22.2	559	5.1
75/76	10.5	2.8	6.2	23.6	9.3	.0	.0	.0	.0	.6	3.4	22.9	712	6.3
73/74	19.8	10.8	17.2	28.5	3.5	.0	.0	.0	.0	.1	1.3	18.4	917	8.4
71/72	25.6	24.7	23.2	16.7	1.0	.0	.0	.0	.0	.3	.6	10.6	935	8.8
69/70	19.9	27.1	21.9	10.0	.1	.0	.0	.0	.0	.0	.6	5.1	793	7.3
67/68	9.6	15.6	14.5	1.6	.0	.0	.0	.0	.0	.2	2.2	2.2	415	3.8
55/66	5.9	8.5	8.2	1.0	.0	.0	.0	.0	.0	.0	.1	.6	231	2.1
53/64	4.4	8.6	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.6	182	1.7
61/62	2.5	.9	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.6	43	.4
59/60	.2	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	.1
57/58	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
55/56	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
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
25/26	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
23/24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
21/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
19/20	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
17/18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
15/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
13/14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
11/12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
5/6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
3/4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
1/2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	834	902	1082	942	970	826	752	922	921	1034	855	820	10880	100.0
MEAN	70.7	69.4	70.2	74.0	80.2	85.2	88.4	91.3	90.0	86.7	81.4	75.4	80.1	

PERIOD (PRIMARY) 1948-1971  
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AREA 0023 N. E. PERSIAN GULF  
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TABLE 21

PRESSURE (MB)

MO	AVE. HOUR (GMT)												TOTAL CBS	EXTREMES		
	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	HAX YEAR	QA HR	MIN YEAR		DA HR		
JAN	1016	1018	1020	1019	1018	1018	1019	1017	1018	956	1027	1964	20 06	1005	1965	10 18
FEB	1015	1017	1017	1015	1016	1015	1016	1015	1016	976	1025	1922	01 18	1006	1924	15 09
MAR	1013	1014	1014	1013	1013	1014	1014	1014	1014	1114	1025	1936	14 09	1000	1949	07 12
APR	1009	1010	1011	1011	1010	1009	1010	1010	1010	962	1020	1930	02 06	999	1956	20 00
MAY	1003	1006	1007	1007	1006	1005	1006	1006	1006	961	1034	1959	09 18	998	1936	26 12
JUN	1000	1002	1001	1002	1001	1001	1000	1001	1000	835	1010	1958	03 12	992	1956	15 12
JUL	996	997	997	998	997	995	997	997	997	789	1004	1953	17 09	986	1956	20 00
AUG	995	999	1000	999	999	998	999	999	999	956	1008	1953	26 06	991	1933	20 18
SEP	1003	1006	1005	1004	1004	1003	1004	1004	1004	819	1013	1913	29 06	995	1937	10 09
OCT	1011	1011	1013	1013	1011	1011	1012	1011	1012	1051	1019	1954	22 18	987	1951	06 06
NOV	1016	1015	1017	1016	1016	1015	1016	1015	1016	853	1023	1961	29 00	1007	1966	11 16
DEC	1017	1019	1019	1019	1017	1019	1018	1020	1018	918	1026	1965	22 06	1010	1924	23 12
ANN	1009	1011	1010	1010	1009	1009	1009	1010	1010	11190						
CBS	2361	204	2398	471	2634	332	2416	374								

PERCENTILES

MO	1%	5%	25%	50%	75%	95%	99%
JAN	1010	1012	1016	1019	1020	1024	1026
FEB	1007	1010	1014	1016	1018	1022	1024
MAR	1004	1007	1012	1014	1016	1019	1021
APR	1001	1004	1008	1010	1012	1015	1017
MAY	999	1001	1004	1006	1008	1011	1012
JUN	993	995	998	1000	1003	1006	1009
JUL	987	992	995	997	999	1002	1003
AUG	572	993	997	999	1001	1004	1006
SEP	996	999	1002	1004	1007	1010	1012
OCT	1003	1006	1010	1012	1014	1016	1019
NOV	1010	1012	1014	1016	1018	1021	1022
DEC	1011	1013	1016	1018	1020	1023	1025



TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN		OR:L	PRECIPITATION TYPE			HAIL	PCT FREQ		TOTAL	THOR	OTHER WEATHER PHENOMENA				TOTAL				
	SHWR	SHWR		FRZG	SNOW	OTHER		PCPN	FRIN			PCPN	PCPN	PCPN	FOG		SHOKT	DUST	NO	NO
								OB TIME	OB TIME	PCPN	LTNG	PCPN	BLWG	BLWG	SNOW	SNOW	SIG	SIG	OBS	OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	112
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	39
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17
W	.2	.2	.0	.0	.0	.0	.0	.5	.5	2	.1	.1	.0	.0	.0	.0	.0	.0	.0	45
NW	.2	.2	.0	.0	.0	.0	.0	.2	.2	1	.1	.1	.0	.0	.0	.0	.0	.0	.0	226
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOT OBS	2	1	0	0	0	0	0	0	0	5	2	2	14	4	4	4	4	4	4	589
TOT PCT	.3	.2	.0	.0	.0	.0	.0	.5	.5	5	.5	.5	2.3	.7	.7	.7	.7	.7	.7	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN		OR:L	PRECIPITATION TYPE			HAIL	PCT FREQ		TOTAL	THOR	OTHER WEATHER PHENOMENA				TOTAL				
	SHWR	SHWR		FRZG	SNOW	OTHER		PCPN	FRIN			PCPN	PCPN	PCPN	FOG		SHOKT	DUST	NO	NO
								OB TIME	OB TIME	PCPN	LTNG	PCPN	BLWG	BLWG	SNOW	SNOW	SIG	SIG	OBS	OBS
0000Z	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	125
0600Z	.6	.0	.0	.0	.0	.0	.0	.6	.6	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	160
1200Z	.0	.6	.0	.0	.0	.0	.0	.6	.6	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	180
1800Z	.6	.0	.0	.0	.0	.0	.0	.6	.6	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	161
TOT	2	1	0	0	0	0	0	0	0	5	2	2	16	4	4	4	4	4	4	624
PCT	.3	.2	.0	.0	.0	.0	.0	.5	.5	5	.5	.5	2.6	.6	.6	.6	.6	.6	.6	100.0

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27.0N 50.3E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPO	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	1.6	7.3	8.0	.9	.1	.0	120	18.0	11.3	18.8	25.0	17.6	11.5	19.5	37.5	18.2	2.2
NE	.9	2.5	1.2	.0	.0	.0	30	4.6	7.5	5.0	.0	4.1	.0	4.0	18.8	5.8	4.3
E	.8	3.7	1.3	.3	.0	.0	40	6.1	8.8	4.2	.0	2.5	1.5	6.7	.0	11.0	4.3
SE	1.0	6.5	4.1	1.8	.0	.0	89	13.4	11.6	13.3	10.0	8.9	17.3	13.5	12.5	16.3	21.7
S	.5	3.0	2.4	.1	.0	.0	40	6.0	9.9	7.5	.0	7.6	5.8	7.0	.0	3.8	.0
SW	.2	2.0	.5	.1	.0	.0	18	2.8	7.6	4.0	.0	2.5	1.9	2.8	.0	2.4	4.3
W	1.2	3.3	2.2	.4	.0	.0	51	7.7	9.7	7.1	22.5	10.9	13.5	5.8	7.3	5.3	6.5
NW	1.3	14.7	17.7	2.5	.4	.0	244	36.6	12.6	33.7	32.5	38.8	34.5	37.4	25.0	33.9	56.5
/AR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.8	287	253	40	4	3	32	4.8	10.6	6.3	10.0	7.2	3.8	3.4	.0	3.4	.0
TOT OBS	83	43.0	37.9	6.0	.6	.3	667	100.0		126	10	152	26	176	8	146	23
TOT PCT	12.4	63.0	55.3	8.7	1.0	.5	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPO	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+	42+				00	03	06	09	12	15	18	21
N	4.2	10.9	2.7	.5	.0	.0	120	18.0	11.3	19.3	16.7	20.2	16.0	16.0			
NE	2.5	1.9	.2	.0	.0	.0	30	4.6	7.5	4.6	3.5	4.6	5.6				
E	2.8	2.6	.2	.0	.0	.0	40	6.1	8.8	3.9	3.8	6.4	10.1				
SE	3.0	7.7	2.3	.4	.0	.0	89	13.4	11.6	13.1	10.1	13.5	17.0				
S	2.3	2.8	1.0	.0	.0	.0	40	6.0	9.9	7.0	7.3	6.7	3.3				
SW	1.5	1.0	.3	.0	.0	.0	18	2.8	7.6	5.7	2.4	2.7	2.7				
W	2.8	3.6	1.7	.1	.0	.0	51	7.7	9.7	8.3	11.2	5.5	5.5				
NW	6.6	20.8	8.3	.8	.1	.0	244	36.6	12.6	33.6	38.2	36.8	37.0				
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0				
CALM	4.8	342	110	11	1	3	32	4.8	10.6	6.6	6.7	3.3	3.0				
TOT OBS	203	51.3	16.3	1.6	.1	.1	667	100.0		136	178	184	169				
TOT PCT	30.4	75.3	41.3	2.4	.2	.2	100.0			100.0	100.0	100.0	100.0				

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)				TOTAL OBS
	0-3	4-10	11-21	22-33	
0003	5.6	45.6	36.0	6.6	136
0609	5.7	40.4	38.2	6.2	178
1215	3.3	42.4	40.8	5.4	184
1821	3.0	44.4	36.1	5.9	169
TOT	32	287	253	40	667
PCT	4.8	43.0	37.9	6.0	100.0

TABLE 5

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

WIND DIR	PCT FREQ								TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-6	OBSCD	8-6	OBSCD	8-6		
N	11.8	2.1	3.2	1.5	108	2.2				
NE	2.0	.8	.7	.6	24	3.1				
E	2.7	1.0	1.1	1.0	34	3.4				
SE	8.4	.8	2.5	1.4	77	2.5				
S	2.9	.9	2.1	.4	37	3.4				
SW	1.9	.1	.4	.5	17	2.7				
W	5.4	.6	.9	.6	43	2.0				
NW	25.5	4.8	3.6	2.9	215	1.9				
VAR	.0	.0	.0	.0	0	1.0				
CALM	3.1	.7	.3	.5	27	2.3				
TOT OBS	373	68	87	57	585	2.3				
TOT PCT	43.8	11.6	14.0	9.7	100.0					

TABLE 6

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

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 4/8) AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION												TOTAL OBS				
	000	149	150	299	300	599	600	999	1000	1999	3499	3500		5000	6499	7999	6500 8000+ NH < 5/8
N	.1	.0	.0	.0	.0	.0	.1	.6	.7	.2	.0	.0	.0	.6	1.0	15.1	108
NE	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.2	.1	2.9	24
E	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.3	.2	4.1	34
SE	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.2	.3	.2	.3	.5	.4	10.3	77
S	.0	.0	.0	.0	.0	.0	.0	.0	.2	.3	.2	.3	.2	.3	.3	4.7	37
SW	.0	.0	.0	.0	.0	.0	.0	.0	.4	.2	.2	.2	.2	.0	.0	2.1	17
W	.0	.0	.0	.0	.0	.0	.0	.0	.4	.1	.0	.1	.0	.3	.1	3.4	43
NW	.1	.0	.0	.0	.3	.0	.0	1.0	1.0	.9	.3	.4	.4	.4	1.2	31.3	215
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.2	.2	.2	.0	.0	3.9	27
TOT OBS	1	1	1	1	2	2	2	14	37	13	6	16	19	474	585	100.0	585
TOT PCT	.2	.2	.2	.2	.3	.3	.3	2.4	6.3	2.2	1.0	2.7	3.2	81.0	100.0		

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TABLE 7

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

CEILING (FEET)	OR >10	OR >5	OR >2	VSBY (NH) OR >1	OR >1/2	OR >1/4	OR >50YD	OR >0
OR >6500	3.2	5.9	5.9	5.9	5.9	5.9	5.9	5.9
OR >5000	3.4	7.1	7.1	7.1	7.1	7.1	7.1	7.1
OR >3500	4.7	9.2	9.2	9.2	9.2	9.2	9.2	9.2
OR >2000	6.6	15.3	15.5	15.5	15.5	15.5	15.5	15.5
OR >1000	7.6	17.6	17.8	17.8	17.8	17.8	17.8	17.8
OR >500	7.7	17.8	18.2	18.2	18.2	18.2	18.2	18.2
OR >300	8.1	18.2	18.5	18.5	18.5	18.5	18.5	18.5
OR >150	8.1	18.3	18.7	18.7	18.7	18.7	18.7	18.7
OR >0	8.1	18.3	18.7	18.8	18.8	18.8	18.8	18.8
TOTAL	48	109	111	112	112	112	112	112

TOTAL NUMBER OF OBS: 595

PCT FREQ NH <5/8: 81.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL
56.3	6.7	8.4	8.4	5.4	4.4	2.0	6.1	2.6	7.9	.2
										608

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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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT CBS	18.2	4.7	5.8	13.4	6.3	2.8	7.4	36.9	.0	4.4	100.0	614
TOT PCT												

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TABLE 9

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

VSBY (NH)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	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	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	0-3	.4	.1	.2	.5	.0	.0	.5	.5	.0	.8	3.1
	4-10	3.2	.9	.6	2.1	.3	.9	.7	5.1	.0	.0	13.9
	11-21	2.0	.5	.9	1.2	1.1	.5	1.2	4.8	.0	.0	12.2
	TOT %	5.6	1.5	2.0	4.6	1.5	1.4	2.5	11.4	.0	.8	31.3
10+	0-3	1.3	.8	.7	.5	.5	.2	.5	.7	.0	3.9	8.9
	4-10	4.2	1.5	3.2	4.4	2.7	1.2	1.6	9.9	.0	.0	29.7
	11-21	6.0	.7	.5	2.7	1.4	.0	1.5	12.9	.0	.0	25.7
	TOT %	12.1	3.0	4.2	8.6	4.7	1.4	5.0	24.5	.0	3.9	67.3
TOT OBS		18.0	4.7	6.2	13.7	6.2	2.8	7.6	36.3	.0	4.6	100.0
TOT PCT												649

TABLE 10

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

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL
00003	.0	.0	1.6	.0	1.6	4.1	.8	1.6	2.4	4.9	17.1	82.9	123
06009	.0	.6	.0	.0	2.6	7.8	3.9	.6	2.6	3.9	22.1	77.9	154
12015	.6	.0	.0	.6	1.7	8.0	1.1	2.3	4.0	2.3	20.5	79.5	176
18021	.0	.0	.0	.7	3.3	3.9	2.6	.0	1.3	2.0	13.7	86.3	153
TOT	1	1	2	2	14	37	13	7	16	17	112	494	606
PCT	.2	.2	.3	.3	4.3	6.1	2.1	1.2	2.6	3.1	18.5	81.5	100.0

TABLE 11

PERCENT FREQUENCY V5BY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	.0	.8	27.9	71.3	122
06009	.0	.0	.0	.7	34.9	64.5	152
12015	.0	.0	.5	1.2	33.7	64.5	172
18021	.0	.0	.0	.0	31.5	68.5	149
TOT	0	0	1	4	192	398	595
PCT	.0	.0	.2	.7	32.3	66.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF V5BY (NM) AND FOR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150	<600	<1000	1000+ AND 5+	NH <5/8	TOTAL OBS
00003	.0	1.6	2.5	15.6	82.0	122
06009	.0	.7	1.3	21.7	77.0	152
12015	.6	.6	1.7	19.2	79.1	172
18021	.0	.0	.7	13.4	85.9	149
TOT	1	4	9	105	481	595
PCT	.2	.7	1.5	17.6	80.2	100.0

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27.0N 50.3E

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.2	.0	.2	.0	.4	.8	.0	8	1.7
75/79	.0	.0	.0	.2	.4	1.7	.8	.2	16	3.4
70/74	.0	.0	.0	.2	2.3	3.0	3.0	4.2	64	13.5
65/69	.0	.4	.4	4.0	8.5	11.6	8.0	8.0	209	44.2
60/64	.0	.0	.0	4.9	7.2	3.0	4.7	4.7	159	33.6
55/59	.0	.0	.0	.4	.4	.2	1.5	.6	19	3.2
50/54	.0	.0	.0	.0	.2	.0	.2	.0	2	.4
TOTAL	.0	.3	.6	5.0	9.0	11.0	12.2	8.4	473	100.0
PCT	.0	.6	1.3	10.6	19.0	24.9	25.8	17.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

TEMP F	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.6	.4	.0	.2	.0	.0	.2	.3	.0	.0
75/79	1.1	.0	.4	.5	.0	.2	.1	1.2	.0	.0
70/74	1.7	.6	2.0	3.8	.7	.3	.8	3.0	.0	1.5
65/69	8.5	2.5	2.8	6.3	2.0	1.6	3.4	13.0	.0	2.1
60/64	5.2	.8	.8	2.8	1.5	.8	2.7	17.8	.0	1.1
55/59	.4	.1	.0	.2	.0	.0	.5	1.6	.0	.4
50/54	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0
TOTAL	77	21	28	65	20	14	37	185	.0	24
PCT	16.4	4.4	6.0	13.8	4.2	3.0	7.8	39.3	.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
0000	82	73	70	64	56	54	52	64.0	137
0600	76	75	74	67	60	55	53	66.6	178
1200	83	82	79	68	61	56	55	68.3	188
1800	75	74	71	65	60	58	56	65.3	171
TOT	83	80	74	66	59	55	52	66.2	674

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	10.6	13.8	24.5	26.6	24.5	79	94
0600	.0	14.3	17.5	24.6	25.4	18.3	76	126
1200	.0	17.0	23.7	23.0	23.7	12.6	73	135
1800	.0	8.1	19.5	27.6	27.6	17.1	77	123
TOT	0	61	91	119	123	84	76	478



PERIOD: (PRIMARY) 1953-15"  
(OVER-ALL) 1908-1971

JANUARY

AREA 0024 N. W. PERSIAN GULF  
27.0N 50.3E

TABLE 17  
PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP C/F	49	53	57	61	65	69	73	77	81	TOT	M FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	.2	.7	.2	5	.0	1.2
17/13	.0	.0	.0	.0	.2	.2	.7	.0	.0	5	.0	1.2
19/10	.0	.0	.0	.0	.0	.7	1.0	.7	.5	12	.0	1.9
7/E	.0	.0	.0	.0	.7	.7	.0	.0	.0	6	.0	1.4
6	.0	.0	.0	.5	1.2	.2	.0	.2	.0	9	.0	2.2
5	.0	.0	.0	.5	1.0	.7	1.0	.2	.0	14	.0	3.4
4	.0	.0	.0	.5	1.0	.0	.5	.2	.0	19	.0	2.2
3	.0	.0	.0	1.4	1.2	.7	.2	.0	.0	15	.0	3.6
2	.0	.0	.0	1.0	1.7	.5	.5	.0	.0	24	.2	5.5
1	.0	.0	.0	1.9	3.1	2.2	1.4	.0	.0	36	.0	8.7
0	.0	.0	.7	4.3	4.1	1.4	.7	.2	.0	48	.0	11.6
-1	.0	.0	.2	1.7	1.4	2.4	.0	.0	.0	24	.0	5.8
-2	.0	.0	.5	2.7	3.4	2.2	.0	.0	.0	36	.0	8.7
-3	.0	.0	.7	1.7	5.1	2.9	.0	.0	.0	39	.0	9.4
-4	.0	.0	.7	3.1	4.1	1.1	.0	.0	.0	24	.0	8.2
-5	.0	.0	.5	2.7	2.2	.2	.0	.0	.0	27	.0	6.5
-6	.0	.0	.5	1.7	2.2	.2	.0	.0	.0	19	.0	7.6
-7/-8	.0	.2	.5	2.4	1.4	.0	.0	.0	.0	19	.0	4.6
-9/-10	.0	.5	.7	2.9	.0	.0	.0	.0	.0	17	.0	4.1
-11/-13	.2	.2	1.2	1.0	.5	.0	.0	.0	.0	13	.0	3.1
-14/-16	.0	.7	.8	1.2	.0	.0	.0	.0	.0	4	.0	1.0
TOTAL	.2	1.7	6.7	30.1	35.4	16.1	6.5	3.4	.7	415	.1	41.4
PCT										100.0	.2	99.8

PERIOD (PRIMARY) (OVER-ALL) 1963-1971  
 JANUARY  
 AREA 0024 N. W. PERSIAN GULF  
 27.0N 50.3E  
 TABLE 18

MGT	POT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)													
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.7	4.7	1.3	.0	.0	.0	7.8	.0	.0	.4	.0	.0	.0	.4
1-2	1.0	3.0	1.3	.0	.0	.0	4.3	.0	.4	.0	.0	.0	.0	.4
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	7.8	2.6	.0	.0	.0	12.1	.0	.4	.4	.0	.0	.0	.9

MGT	POT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)													
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	6.0	.0	.0	.0	.0	6.0	.0	6.5	.0	.0	.0	.0	6.5
1-2	.0	3.0	.0	.0	.0	.0	3.0	.0	5.6	1.7	.0	.0	.0	7.3
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9	1.7	.0	.0	5.6
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	.0	.0	1.7
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	9.1	.0	.0	.0	.0	9.1	.0	12.1	5.6	3.4	.0	.0	21.1

JANUARY  
TABLE 18  
AREA 0024 N. W. PERSIAN GULF  
27-0N 50.3E

PERIOD: (PRIMARY)  
(COVER-ALL) 1963-1971

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

HGT	S					SM					48+	PCT	
	1-3	4-10	11-21	22-33	34-47	1-3	4-10	11-21	22-33	34-47			
<1	1.7	6.5	.0	.0	.0	.0	1.7	.0	.0	.0	.0	.0	1.7
1-2	.0	.0	.0	.0	.0	.0	1.7	.0	.0	.0	.0	.0	1.7
3-4	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	6.5	1.3	.0	.0	.0	3.4	.0	.0	.0	.0	.0	3.4

HGT	M					NW					48+	PCT	
	1-3	4-10	11-21	22-33	34-47	1-3	4-10	11-21	22-33	34-47			
<1	1.7	.0	.0	.0	.0	.0	3.9	3.4	.0	.0	.0	.0	7.3
1-2	.0	.0	1.7	.0	.0	.0	6.9	5.6	.0	.0	.0	.0	12.5
3-4	.0	.0	1.7	.0	.0	.0	1.7	10.3	1.7	.0	.0	.0	13.8
5-6	.0	.0	.0	.0	.0	.0	.0	1.7	.0	.0	.0	.0	1.7
7	.0	.0	.0	.0	.0	.0	.0	3.4	.0	.0	.0	.0	3.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	.0	3.4	.0	.0	.0	12.5	24.6	1.7	.0	.0	.0	38.8

AREA 0024 N. W. PERSIAN GULF  
27.0N 50.3E

JANUARY

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

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT				
<1	12.7	27.0	4.8	.0	.0	.0	44.4				
1-2	.0	19.0	3.5	.0	.0	.0	28.0				
3-4	.0	11.6	19.5	3.2	.0	.0	20.6				
5-6	.0	.0	1.6	.0	.0	.0	3.2				
7	.0	.0	3.2	.0	.0	.0	.0				
9-9	.0	.0	.0	.0	.0	.0	.0				
10-11	.0	.0	.0	.0	.0	.0	.0				
12	.0	.0	.0	.0	.0	.0	.0				
13-16	.0	.0	.0	.0	.0	.0	.0				
17-19	.0	.0	.0	.0	.0	.0	.0				
20-22	.0	.0	.0	.0	.0	.0	.0				
23-25	.0	.0	.0	.0	.0	.0	.0				
26-32	.0	.0	.0	.0	.0	.0	.0				
33-40	.0	.0	.0	.0	.0	.0	.0				
41-48	.0	.0	.0	.0	.0	.0	.0				
49-60	.0	.0	.0	.0	.0	.0	.0				
61-70	.0	.0	.0	.0	.0	.0	.0				
71-86	.0	.0	.0	.0	.0	.0	.0				
87+	.0	.0	.0	.0	.0	.0	.0				
TOT PCT	12.7	47.6	34.9	4.8	.0	.0	100.0	63			

TABLE 19

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

PERIOD (SEC)	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)										87+ TOTAL	MEAN HGT											
	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19			20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86			
<1	14.3	23.9	21.7	4.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.9	2	
6-7	.0	.9	2.7	3.6	1.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	5
8-9	.0	.0	.4	.9	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6
10-11	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
12-13	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
15-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
19-21	15.2	4.5	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	49
TOTAL	66	66	60	19	11	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	223
PCT	29.6	29.6	26.9	8.5	4.9	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

FEBRUARY

AREA 0024 N. W. PERSIAN GULF  
27.0N 50.2E

PERIOD: (PRIMARY) 1953-1970  
(OVER-ALL) 1854-1970

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHR	RAIN SHR	DRZL SHR	PRECIPITATION TYPE			HAIL	PCT PREO	TOTAL PCPN AT OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				PCPN	FRZG	SNOW					FG	SMOKE	HAZE	BLWG	
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.2	16.1	77
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	2.7	18
E	.2	.0	.0	.0	.0	.0	.0	.2	1	.2	.0	.2	.0	7.1	25
SE	.2	.0	.0	.0	.0	.0	.0	.2	1	.2	.4	.7	.0	13.9	80
S	.2	.2	.4	.0	.0	.0	.0	.9	4	.0	.0	.1	.0	7.0	27
SW	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.1	.0	2.9	13
W	.2	.0	.0	.0	.0	.0	.0	.2	1	.0	.0	.2	.0	5.9	29
NW	.4	.0	.2	.0	.0	.0	.0	.7	3	.0	.3	1.2	.4	28.2	142
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	5.9	27
TOT OBS	6	1	3	0	0	0	0	10	4	2	4	13	4	428	461
TOT PCT	1.3	.2	.7	.0	.0	.0	.0	2.2	.4	.4	.9	2.8	.9	92.8	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN SHR	RAIN SHR	DRZL SHR	PRECIPITATION TYPE			HAIL	PCT PREO	TOTAL PCPN AT OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				PCPN	FRZG	SNOW					FG	SMOKE	HAZE	BLWG	
0000	3.1	.0	.0	.0	.0	.0	.0	3	2	.0	.0	1.0	.0	95.9	98
0600	2.4	.8	.0	.0	.0	.0	.0	3	4	.0	2.4	4.7	1.6	88.2	127
1200	.0	.0	.7	.0	.0	.0	.0	.7	1	.0	.0	2.6	1.4	94.2	138
1800	.0	.0	1.8	.0	.0	.0	.0	1.8	2	1.8	.9	.9	.9	92.8	113
TOT	6	1	3	0	0	0	0	10	4	2	4	13	5	442	476
PCT	1.3	.2	.5	.0	.0	.0	.0	2.2	.4	.4	.8	2.7	1.1	92.9	100.0

FEBRUARY

PERIOD: (PRIMARY) 1953-1970  
(OVER-ALL) 1864-1970

AREA 0024 N. W. PERSIAN GULF  
27.0N 50.3E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						HOUR (GMT)										
	0-3	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	8.9	5.2	.6	.1	.0	83	16.2	11.4	16.4	12.5	15.5	15.9	20.7	15.0	13.1	.0
NE	.6	2.6	.5	.3	.0	.0	20	4.0	7.8	1.8	.0	4.8	.0	2.0	.0	4.2	.0
E	1.1	5.8	1.8	.1	.1	.0	45	8.9	6.2	5.3	12.5	4.8	25.0	11.4	10.0	9.5	28.6
SE	1.7	9.8	4.9	.9	.1	.0	89	17.3	9.8	15.4	25.0	13.2	16.7	16.4	10.0	22.2	57.1
S	.4	4.6	2.7	.0	.0	.0	40	7.8	9.7	10.9	12.5	12.6	11.1	3.9	.0	5.2	.0
SW	.9	2.3	.1	.0	.0	.0	16	3.2	5.8	4.0	.0	5.2	2.8	1.9	10.0	1.7	.0
W	.8	5.0	1.3	.1	.0	.0	32	6.3	7.9	7.3	.0	10.6	.0	6.9	15.0	3.2	.0
NW	1.2	1.5	16.2	1.8	.1	.0	153	30.7	12.9	28.8	37.5	28.4	30.6	30.4	40.0	35.0	14.3
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.6	172	20	2	2	.0	29	5.6	10.0	10.1	.0	4.8	.0	4.5	.0	5.9	.0
TOT OBS	66	255	334	20	4	.0	515	100.0		99	4	125	18	134	10	118	7
TOT PCT	12.8	49.5	64.5	3.9	.8	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)						HOUR (GMT)									
	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	9.7	3.0	.4	.0	83	16.2	11.4	16.3	15.4	20.3	12.4	12.4	12.4	12.4	12.4
NE	2.5	1.0	.4	.1	.0	20	4.0	7.8	1.7	4.2	5.6	4.0	4.0	4.0	4.0	4.0
E	4.2	4.5	.0	.2	.0	45	8.9	8.2	5.6	7.3	11.3	10.6	10.6	10.6	10.6	10.6
SE	6.4	8.3	2.3	.1	.0	89	17.3	9.8	15.8	13.6	16.0	24.2	24.2	24.2	24.2	24.2
S	1.7	5.5	.7	.0	.0	40	7.8	9.7	10.9	12.4	3.6	4.8	4.8	4.8	4.8	4.8
SW	2.1	1.0	.1	.0	.0	16	3.2	5.8	3.9	4.9	2.4	1.6	1.6	1.6	1.6	1.6
W	2.9	2.8	.6	.0	.0	32	6.3	7.9	7.0	9.3	5.6	3.0	3.0	3.0	3.0	3.0
NW	5.3	16.6	8.3	.6	.0	158	30.7	12.9	29.1	28.7	31.1	33.8	33.8	33.8	33.8	33.8
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.6	172	20	2	2	29	5.6	10.0	9.7	4.2	4.2	4.2	4.2	4.2	4.2	4.2
TOT OBS	174	254	30	7	0	515	100.0		103	143	144	125	125	125	125	125
TOT PCT	33.8	49.3	15.9	1.4	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

FEBRUARY

PERIOD (PRIMARY) 1953-1970  
(OVER-ALL) 1864-1970

TABLE 4

HOUR	PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)						TOTAL OBS
	CALM	1-3	4-10	11-21	22-33	34-47	
0000	9.7	4.9	53.1	29.1	2.9	.0	103
0600	4.2	6.3	49.7	34.3	4.9	.7	143
1200	4.2	6.9	50.7	34.0	3.5	.7	144
1800	5.3	10.4	44.8	35.2	4.0	.0	125
TOT	29	37	255	172	20	2	515
PCT	5.6	7.2	49.5	33.4	3.9	.4	

TABLE 5

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

WIND DIR	PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)						TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-9	10	11-12		
N	10.5	2.0	2.7	1.6	73	2.4	73	
NE	3.1	.4	2.7	1.2	12	2.1	19	
E	3.5	.7	2.2	1.6	33	3.7	35	
SE	8.7	1.6	4.3	1.9	73	3.0	73	
S	3.7	1.6	1.8	1.4	34	2.9	34	
SW	2.1	.3	.7	.0	14	1.9	14	
W	4.4	1.1	1.0	1.2	29	1.4	29	
NW	21.0	3.1	4.5	2.0	134	2.0	134	
VAR	.0	.0	.0	.0	0	.0	0	
CALM	5.9	.2	.0	.0	27	.4	27	
TOT OBS	277	49	80	35	441	2.3	441	
TOT PCT	62.8	11.1	18.1	7.9	100.0			

TABLE 6

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

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH > 4/8 AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION										TOTAL OBS	
	000	149	299	599	899	1000	1999	3499	4999	6499		7999
N	.0	.0	.0	.0	.0	.0	.2	.2	.2	.2	.2	73
NE	.0	.0	.0	.0	.0	.0	.2	.2	.2	.2	.2	19
E	.0	.0	.2	.0	.0	.0	.2	.2	.2	.2	.2	35
SE	.0	.0	.0	.1	.2	.7	.6	.7	.2	.2	.2	73
S	.0	.0	.0	.2	.2	.0	1.0	.0	.0	.0	.0	34
SW	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	.0	14
W	.0	.0	.0	.0	.0	.0	.2	.5	.0	.0	.0	29
NW	.0	.0	.0	.2	.0	.5	1.5	.2	.1	.2	.7	134
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	27
TOT OBS	0	0	2	2	2	9	17	8	2	3	2	441
TOT PCT	.0	.2	.5	.5	2.0	3.9	1.8	.5	.7	1.4	32.7	100.0

PERIOD: (PRIMARY) 1953-1970  
(OVER-ALL) 1964-1970

FEBRUARY

AREA 0324 N. W. PERSIAN GULF  
27.0N 50.3E

TABLE 7

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

CEILING (FEET)	OR >10	OR >5	OR >2	OR >1	VSBY (NM) >1/2	OR >1/4	OR >50YD	OR >0
OR >6500	.7	2.0	2.0	2.0	2.0	2.0	3.0	2.0
OR >5000	.7	2.4	2.4	2.4	2.4	2.4	2.4	2.4
OR >3500	1.5	4.2	4.2	4.2	4.2	4.2	4.2	4.2
OR >2000	3.5	7.5	8.0	8.0	8.0	8.0	8.0	8.0
OR >1000	5.3	9.5	10.0	10.0	10.0	10.0	10.0	10.0
OR >600	5.3	9.7	10.4	10.4	10.4	10.4	10.4	10.4
OR >300	5.5	10.2	10.8	10.8	10.8	10.8	10.8	10.8
OR >150	5.5	10.4	11.1	11.1	11.1	11.1	11.1	11.1
OR > 0	5.8	10.6	11.3	11.3	11.3	11.3	11.3	11.3
TOTAL	26	44	51	51	51	51	51	51

TOTAL NUMBER OF OBS: 452

PCT FREQ NH <5/61 24.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL OBS
	67.2	8.2	6.1	3.6	2.3	1.9	3.2	2.7	4.6	475



PERIOD: (PRIMARY) 1953-1970  
 (OVER-ALL) 1864-1970

FEBRUARY

AREA 0024 N. W. PERSIAN GULF  
 27.0N 50.3E

TABLE 8  
 PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OF NON-OCCURRENCE OF  
 PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NH)	N	NE	E	SE	S	SH	W	NW	VAR	CALM	PCT	TOTAL
												OBS
FCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.2	.4	.0	.0	.2	.0	.0	.9	.0	.0	.0	1.7
TOT %	.0	.2	.4	.0	.2	.0	.0	.9	.0	.0	.0	1.7
PCP	.0	.0	.0	.2	.4	.0	.2	.4	.0	.0	.0	1.3
NO PCP	4.7	2.1	2.9	7.6	2.3	1.5	2.8	11.0	.0	3.7	.0	39.1
TOT %	4.7	2.1	2.9	7.9	3.1	1.5	3.1	11.3	.0	3.7	.0	40.4
PCP	.0	.0	.2	.0	.4	.0	.0	.2	.0	.0	.0	.9
NO PCP	11.8	1.7	4.2	9.7	4.1	1.5	3.3	18.4	.0	2.2	.0	57.0
TOT %	11.8	1.7	4.4	9.7	4.6	1.5	3.3	18.6	.0	2.2	.0	57.9
TOT OBS	15.6	4.0	7.8	17.6	7.9	3.0	6.3	30.9	.0	5.9	100.0	456
TOT PCT												

PERIOD: (PRIMARY) 1953-1970  
(OVER-ALL) 1864-1970

FEBRUARY

AREA 0024 N. W. PERSIAN GULF  
27.0N 50.3E

TABLE 9

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

VSBY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.4	.4
	4-10	.1	.2	.5	.1	.2	.0	.0	.5	.0	.0	1.6	.8
	11-21	.0	.0	.0	.0	.2	.1	.0	.6	.0	.0	.8	.0
	TOT %	.1	.2	.7	.1	.4	.1	.2	1.1	.0	.0	2.8	1.2
5<10	0-3	.0	.2	.4	1.0	.4	.1	.2	.2	.0	3.4	5.9	21.1
	4-10	2.9	1.3	2.0	3.3	1.6	1.3	2.1	4.6	.0	.0	10.5	1.4
	11-21	1.2	.5	.4	1.4	1.1	.0	.6	.6	.0	.0	38.9	6.3
	TOT %	4.6	2.1	2.7	7.9	3.0	1.4	2.8	10.8	.0	.0	58.3	2.0
10+	0-3	.7	.4	.5	.7	.1	.2	.5	1.0	.0	2.0	6.3	27.3
	4-10	5.8	1.1	3.2	6.6	2.8	1.1	2.0	6.3	.0	.0	22.7	2.0
	11-21	5.0	.1	1.2	3.6	1.4	.1	.8	1.0	.0	.0	58.3	2.0
	TOT %	11.2	1.6	4.5	9.6	4.4	1.5	3.3	19.3	.0	.0	100.0	4.94
TOT OBS		16.4	3.9	8.4	17.6	7.7	2.9	5.3	31.3	.0	5.5	100.0	

PERIOD: (PRIMARY) 1959-1970  
(OVER-ALL) 18/4-1970

FEBRUARY

AREA 0624 N. W. PERSIAN GULF  
27.0N 50.3E

TABLE 10  
PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000	150	300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100	2250	2400	TOTAL	NH < 5/8 ANY HGT	TOTAL
00003	1.0	1.0	2.0	.0	1.0	5.1	1.0	.0	1.0	.0	1.0	.0	1.0	.0	1.0	.0	12.2	87.8	98	
06009	.0	.0	.0	1.6	2.4	3.2	.8	.0	.0	.0	1.6	9.6	90.4	125						
12015	.0	.0	.0	.0	3.7	1.5	2.2	.7	.7	2.2	11.2	88.8	134							
18021	.0	.0	.0	.0	.0	6.7	2.7	.9	.9	.9	11.8	88.2	110							
TOT	1	1	2	2	9	18	9	2	3	6	52	415	467							
PCT	.2	.2	.4	.4	1.9	3.5	1.7	.4	.6	1.3	11.1	88.9	100.0							

TABLE 11

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<4	4<5	5<6	6<7	7<8	8<9	9<10	10+	TOTAL OBS
00003	.0	.0	.0	2.1	45.7	52.1	94						94
06009	.0	.0	.0	3.3	42.1	54.5	121						121
12015	.0	.0	.0	.0	36.1	65.9	129						129
18021	.0	.0	.0	1.9	38.9	59.3	108						108
TOT	0	0	0	8	180	254	452						452
PCT	.0	.0	.0	1.8	39.8	56.4	100.0						100.0

TABLE 12

HOUR (GMT)	<150 CEILING HGT	150-500 <500D	500-1000 <1000D	1000-1500 <1500D	1500-2000 <2000D	2000-2500 <2500D	2500-3000 <3000D	3000-3500 <3500D	3500-4000 <4000D	4000-4500 <4500D	4500-5000 <5000D	TOTAL OBS
00003	1.1	4.3	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	94
06009	.0	.0	4.1	7.4	68.4	121						121
12015	.0	.0	.0	11.6	88.4	129						129
18021	.0	.0	1.9	12.0	86.1	108						108
TOT	1	4	13	43	396	452						452
PCT	.2	.9	2.9	9.5	87.6	100.0						100.0

FEBRUARY

PERIOD: (PRIMARY) 1953-1970  
(OVER-ALL) 1864-1970

AREA 0024 N. W. PERSIAN GULF  
27.0N 50.5E

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
80/84	.0	.0	.3	.0	.3	1.1	.0	.0	6	1.6
75/79	.0	.0	.0	.5	1.4	1.3	2.5	1.1	26	7.1
70/74	.0	.0	.0	1.1	3.0	4.4	5.2	5.2	69	18.9
65/69	.0	.0	.0	1.9	6.0	1.0	12.0	10.7	154	42.1
60/64	.0	.0	.5	2.2	5.9	5.5	4.6	5.7	104	28.4
55/59	.0	.0	.0	.0	.3	.3	.8	.5	7	1.9
TOTAL	0	0	3	21	65	100	92	85	366	100.0
PCT	.0	.0	.8	5.7	17.7	27.3	25.1	23.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.5	.0	.5	.0	.0	.0	.0	.3	.0	.3
75/79	1.4	1.1	.6	1.4	.6	.4	.0	1.1	.0	.3
70/74	1.6	.7	2.9	3.5	1.1	.6	2.0	4.2	.0	2.2
65/69	5.4	1.8	2.9	7.7	4.4	2.1	2.1	13.0	.0	1.4
60/64	4.0	.4	1.1	4.9	2.7	.6	1.0	12.0	.0	1.6
55/59	.5	.1	.0	.3	.2	.0	.0	.8	.0	.0
TOTAL	40	15	29	65	33	14	22	115	0	22
PCT	13.4	4.1	8.1	17.8	9.0	3.8	6.2	31.5	.0	6.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
0000Z	80	73	70	64	60	56	56	64.7	107
0600Z	80	79	74	68	61	60	60	67.2	144
1201Z	82	81	80	68	61	59	59	69.3	144
1802Z	76	75	71	65	61	59	58	65.6	125
TOT	82	80	76	66	60	58	56	66.5	520

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
0000Z	.0	3.8	12.5	23.5	28.8	32.5	32.5	32.5	82	80
0600Z	.0	7.8	17.6	23.4	26.5	27.7	27.7	27.7	102	
1201Z	.0	10.3	19.6	33.6	22.4	14.0	14.0	14.0	107	
1802Z	.0	2.2	20.2	25.8	23.6	18.0	18.0	18.0	89	
TOT	0	24	67	106	95	46	46	46	376	

PERIOD: (PRIMARY) 1953-1970  
(OVERALL) 1864-1970

FEBRUARY

AREA 0024 N. W. PERSIAN GULF  
27.0N 50.3E

TABLE 17

PCT =%FQ OF AIR TEMPERATURE (OEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (OEG F)

AIR-SEA TMP DIF	57	61	65	69	73	77	81	TOT	M FOG	HO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	1	.0	.3
11/13	.0	.0	.0	.3	.6	.3	.9	7	.0	2.2
9/10	.0	.0	.0	1.9	1.9	1.6	.0	8	.0	2.5
7/8	.0	.0	.0	1.9	1.6	1.6	.0	13	.0	4.0
6	.0	.0	.6	.9	1.2	.0	.0	9	.0	4.8
5	.0	.0	.6	.9	.3	.0	.0	7	.0	2.2
4	.0	.0	.6	1.6	.9	.3	.0	11	.0	7.4
3	.0	.2	.0	2.2	.3	.0	.0	9	.0	2.8
2	.0	1.2	2.2	3.4	.9	.0	.0	25	.0	7.8
1	.3	1.9	3.7	3.4	.6	.0	.0	29	.3	8.7
0	.6	.9	3.7	3.4	.0	.0	.0	28	.3	8.4
-1	.0	3.8	3.5	1.9	.3	.0	.0	34	.0	10.6
-2	.3	3.1	6.8	2.2	.6	.0	.0	42	.0	13.0
-3	.3	2.9	2.8	.6	.0	.0	.0	21	.3	6.2
-4	.6	3.7	1.9	.0	.0	.0	.0	20	.0	6.2
-5	.9	3.7	1.2	.3	.0	.0	.0	20	.0	5.2
-6	.3	2.5	.6	.0	.0	.0	.0	11	.0	3.4
-7/8	1.6	3.1	1.6	.0	.0	.0	.0	20	.0	6.2
-9/10	.6	.9	.0	.0	.0	.0	.0	5	.0	1.6
-11/13	.0	.5	.0	.0	.0	.0	.0	2	.0	.6
TOTAL	18	89	103	72	27	10	3	322	3	319
PCT	5.6	27.6	32.0	22.4	8.4	3.1	.9	100.0	.9	99.1

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

FEBRUARY  
TABLE 18

AREA 0024, N. W. PERSIAN GULF  
27.0N 50.3E

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

HGT	N				NE				48+	PCT	
	1-3	4-10	11-21	22-33	34-47	48+	11-21	22-33			34-47
<1	1.1	4.9	.0	.0	.0	.0	1.1	5.3	.0	.0	6.6
1-2	.0	3.0	1.1	.0	.0	.0	.0	2.5	.0	.0	2.5
3-4	.0	3.3	1.6	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	1.9	.0	.0	.0	.0	.3	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	11.3	4.7	.0	.0	.0	1.1	6.0	.3	.0	9.3

HGT	E				SE				48+	PCT	
	1-3	4-10	11-21	22-33	34-47	48+	11-21	22-33			34-47
<1	1.1	3.6	.0	.0	.0	.0	1.1	11.8	.0	.0	12.9
1-2	.0	.8	.0	.0	.0	.0	.3	.0	.0	.0	1.4
3-4	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	2.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	1.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	4.7	1.1	.0	.0	.0	2.2	12.1	2.2	1.1	17.6

HGT	PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)										TOT PCT			
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21		22-33	34-47	48+
<1	.8	4.1	.0	.0	.0	.0	4.9	.5	2.5	.0	.0	.0	.0	3.0
1-2	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	4.9	.0	.0	.0	.0	5.8	.5	2.5	.0	.0	.0	.0	3.0

HGT	PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)										TOT PCT			
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21		22-33	34-47	48+
<1	1.6	4.9	.0	.0	.0	.0	6.6	2.3	9.6	4.4	.0	.0	.0	12.1
1-2	.0	.0	.0	.0	.0	.0	.0	.0	5.8	2.7	.0	.0	.0	10.2
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.1	4.4	1.1	.0	.0	4.9
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4
7	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	1.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	1.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.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	4.9	.0	.0	.0	.0	6.6	3.6	16.5	11.5	2.2	.0	.0	33.8

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

FEBRUARY

AREA 0024 N. W. PERSIAN GULF  
27.0N 50.3E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT				
<1	25.2	39.6	.0	.0	.0	.0	64.9				
1-2	.9	10.8	6.5	.0	.0	.0	16.2				
3-4	.0	3.6	5.3	.9	.0	.0	10.8				
5-6	.0	.0	5.4	.9	.0	.0	6.3				
7	.9	.0	.0	.0	.0	.0	.9				
8-9	.0	.0	.0	.9	.0	.0	.9				
10-11	.0	.0	.0	.0	.0	.0	.0				
12	.0	.0	.0	.0	.0	.0	.0				
13-16	.0	.0	.0	.0	.0	.0	.0				
17-19	.0	.0	.0	.0	.0	.0	.0				
20-22	.0	.0	.0	.0	.0	.0	.0				
23-25	.0	.0	.0	.0	.0	.0	.0				
26-32	.0	.0	.0	.0	.0	.0	.0				
33-40	.0	.0	.0	.0	.0	.0	.0				
41-48	.0	.0	.0	.0	.0	.0	.0				
49-60	.0	.0	.0	.0	.0	.0	.0				
61-70	.0	.0	.0	.0	.0	.0	.0				
71-86	.0	.0	.0	.0	.0	.0	.0				
87+	.0	.0	.0	.0	.0	.0	.0				
TOT PCT	27.0	54.1	16.2	2.7	.0	.0	100.0				

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TABLE 19

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

PERICO (SEC)	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)													TOTAL HGT								
	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32		33-40	41-48	49-60	61-70	71-86	87+		
<6	24.2	18.6	12.1	4.8	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	142	
6-7	.0	1.7	2.2	5.1	1.7	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29
8-9	.0	.0	.0	.4	1.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5
10-11	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDET	17.7	1.7	2.2	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	52
TOTAL	42.0	22.1	16.5	11.7	12	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	231
PCT	42.0	22.1	16.5	11.7	5.2	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0



PERIOD: (PRIMARY) 1950-1971  
(OVER-ALL) 1870-1971

MARCH

AREA 0024 N. W. PERSIAN ULF  
27.4N 50.1E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIRECTION	RAIN		RAIN SHHR		ORZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THOP LTNG	OTHER WEATHER PHENOMENA			TOTAL OBS
	AMOUNT	SHHR	FRZG PCPN	SNDW		OTHER FRZN PCPN	FOG MD	SMOKE HAZE					BLMG BLMG	DUST SNOW	SIG WEA	
N	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	1	.0	.3	1.6	14.9	71
NE	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	1	.0	.2	.0	4.8	22
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	5.6	25
SE	.7	.0	.0	.0	.0	.0	.0	.0	.0	.7	3	.0	.2	.5	9.1	44
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	3.8	15
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	2.0	9
W	.1	.0	.1	.0	.0	.0	.0	.0	.0	.2	1	.1	.0	.0	6.9	30
NW	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	0	.0	.0	.0	27.9	130
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	0	0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.2	.5	13.5	58
CALM	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	7	.2	.5	.21	361	408
TOT OBS	1.5	.0	1.2	.0	.0	.0	.0	.0	.0	1.7	7	.5	1.2	5.1	88.5	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN		ORZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THOR LTNC	OTHER WEATHER PHENOMENA			TOTAL OBS
	AMOUNT	SHHR		FRZG PCPN	SNDW	OTHER FRZN PCPN					FOG MD	SMOKE HAZE	BLMG BLMG	
0000Z	.0	.0	1.1	.0	.0	.0	.0	1.1	1	1.1	2.3	3.4	90.8	87
0600Z	5.1	.0	.0	.0	.0	.0	.0	5.1	6	2.6	4.3	3.4	84.6	117
1201Z	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	1.6	6.5	91.9	125
1802Z	.0	.0	.0	.0	.0	.0	.0	.0	0	2.2	3.2	6.5	87.1	193
TOT	6	0	1	0	0	0	0	6	7	6	12	21	372	420
PCT	1.4	.0	.2	.0	.0	.0	.0	1.7	7	1.4	2.9	5.0	88.6	100.0

AREA 0024, N. W. PERSIAN GULF  
27.4N 50.1E

MARCH

PERIOD: (PRIMARY) 1950-1971  
(OVER-ALL) 1970-1971

TABLE 3  
PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.2	6.7	8.8	1.0	.2	.0	83	18.0	12.4	17.1	20.0	16.0	10.0	22.1	47.2	17.4	.0
NE	1.5	3.3	1.0	.3	.0	.0	23	5.1	9.1	5.9	.0	7.9	6.0	3.7	.0	5.1	.0
E	1.2	4.3	1.3	.0	.0	.0	31	6.9	7.1	2.9	.0	7.2	4.0	6.1	5.6	9.6	11.5
SE	1.5	7.3	2.8	.0	.0	.0	53	11.6	8.3	8.2	10.0	14.6	6.0	12.0	5.6	11.8	19.2
S	.8	2.9	.6	.0	.0	.0	20	4.3	7.9	4.7	.0	5.4	14.0	2.1	.0	4.5	.0
SW	.2	1.5	.3	.0	.0	.0	9	2.1	7.3	5.3	5.0	.0	.0	1.9	.0	1.4	7.7
W	1.2	4.7	1.5	.2	.0	.0	22	7.6	7.5	8.5	5.0	9.0	12.0	4.3	.0	8.7	11.5
NW	2.3	11.1	16.1	1.1	.2	.0	142	30.8	11.6	20.9	60.0	27.3	38.0	34.3	41.7	21.3	50.0
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	13.0	194	150	12	2	.0	63	13.6	.0	16.5	.0	12.6	12.0	11.6	.0	20.2	.0
TOT OBS	105	194	150	12	2	.0	463	8.9		85	10	111	25	121	9	89	13
TOT PCT	22.7	41.9	32.4	2.6	.4	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)					
	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPO	00	03	06	09	12	15	18	21
N	4.0	9.6	3.9	.5	.0	83	16.0	12.4	17.4	14.9	23.8	15.2				
NE	1.9	2.7	.5	.0	.0	23	5.1	9.1	5.3	7.2	3.5	4.4				
E	4.2	2.5	.2	.0	.0	31	2.9	7.1	2.6	6.6	7.4	9.8				
SE	5.0	6.1	.5	.0	.0	53	11.6	8.3	8.2	13.1	11.5	12.7				
S	2.0	2.1	.2	.0	.0	20	4.3	7.9	4.2	7.0	1.9	3.9				
SW	1.1	1.0	.0	.0	.0	9	2.1	7.3	5.3	.0	1.7	2.2				
W	3.7	3.7	.2	.0	.0	35	7.6	7.5	8.2	9.6	4.0	9.1				
NW	7.1	16.9	6.2	.6	.0	142	30.8	11.9	32.9	29.2	34.6	25.0				
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0				
CALM	13.6	206	54	5	.0	63	13.6	.0	14.7	12.5	10.8	17.6				
TOT OBS	198	447	117	1.1	.0	463			95	136	131	102				
TOT PCT	22.8	44.7	11.7	1.1	.0	100.0			100.0	100.0	100.0	100.0				

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PERIOD (PRIMARY) 1950-1971  
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CAL4	1-3	4-10	WIND SPEED (KNOTS)				PCT PREO	TOTAL OBS	
				11-21	22-33	34-47	48+			
0000	14.7	10.5	31.6	41.1	2.1	.0	.0	7.3	100.0	52
0600	12.3	10.3	44.1	30.9	2.2	.0	.0	8.6	100.0	136
1200	10.3	6.5	43.1	32.3	4.6	.8	.0	9.6	100.0	130
1800	17.5	6.9	47.1	26.5	1.0	.0	.0	7.9	100.0	102
TOT	63	42	194	150	12	2	0	8.9		463
PCT	13.5	9.1	41.9	32.4	2.6	.4	.0		100.0	

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8-8	MEAN CLOUD COVER	TOTAL OBS
N	8.9	1.4	3.4	3.6	3.2	61
NE	2.3	.3	2.5	.4	3.7	19
E	2.2	.3	2.5	.4	3.8	19
SE	6.2	1.2	2.0	2.2	3.2	41
S	3.2	.2	.8	.1	1.9	15
SW	1.5	.0	.3	.8	3.3	9
W	4.7	.9	.7	1.3	2.4	27
NW	21.2	2.2	4.3	2.4	1.8	107
VAR	.0	.0	.0	.0	.0	0
CALM	10.7	1.4	3.4	.0	1.1	55
TOT OBS	217	29	71	40	7.5	356
TOT PCT	61.0	7.9	19.9	11.2		100.0

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 478)  
 AND OCCURRENCE OF NH < 578 BY WIND DIRECTION

WIND DIR	500 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH < 578 ANY HGT	TOTAL OBS
N	.0	.0	.0	.3	.2	.7	.4	.2	.0	.0	.3	61
NE	.0	.0	.3	.0	.6	.1	.1	.1	.3	.0	.0	19
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19
SE	.0	.3	.0	.3	.0	.4	.1	.4	.0	.0	.0	41
S	.0	.0	.0	.0	.0	.2	.1	.1	.1	.0	.0	15
SW	.0	.0	.0	.0	.4	.1	.0	.0	.0	.0	.0	9
W	.0	.0	.0	.0	.6	.2	.0	.0	.3	.0	.0	27
NW	.0	.0	.3	.0	.8	.1	.3	.0	.6	.0	.0	107
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.2	.11	.6	.4	.2	.8	.0	.0	55
TOT OBS	0	1	2	2	11	3.1	1.7	.6	2.2	.8	.6	356
TOT PCT	.0	.3	.6	.6	3.1	1.7	1.1	.6	2.2	1.7	1.7	100.0

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TABLE 7  
CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>9	>8	>7	>6	>5	>4	>3
OR >6500	.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
OR >5000	1.1	4.7	4.7	4.7	4.7	4.7	4.7	4.7
OR >3500	2.2	5.8	5.8	5.8	5.8	5.8	5.8	5.8
OR >2000	4.1	7.1	7.4	7.4	7.4	7.4	7.4	7.4
OR >1000	4.7	10.4	10.7	10.7	10.7	10.7	10.7	10.7
OR >600	4.9	11.2	11.5	11.5	11.5	11.5	11.5	11.5
OR >300	4.9	11.8	12.1	12.1	12.1	12.1	12.1	12.1
OR >150	4.9	11.8	12.1	12.3	12.3	12.3	12.3	12.3
OR > 0	4.9	11.8	12.1	12.3	12.3	12.3	12.3	12.3
TOTAL	18	43	44	45	45	45	45	45

TOTAL NUMBER OF OBS: 365 PCT FREQ NH <5/8: 87.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL
72.3	9.2	4.5	3.1	2.6	2.6	3.4	1.6	4.7	1.0	382
										OBSC

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TABLE 8

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

VSBY (MM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.2	.0	.0	.0	.0	.0	.0	.2	.0	.2	.7	.7
	.2	.0	.0	.0	.0	.0	.0	.2	.0	.2	.7	.7
1/2<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
1<2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	.2
	.4	.1	.0	.0	.0	.0	.0	.2	.0	.0	.7	.7
	.4	.1	.0	.2	.0	.0	.0	.2	.0	.0	1.0	1.0
2<5	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	.2
	1.2	.1	.0	.2	.0	.2	.0	1.9	.0	.2	3.9	3.9
	1.2	.1	.0	.5	.0	.2	.0	1.9	.0	.2	4.2	4.2
5<10	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.5	.5
	3.0	1.7	3.6	2.5	.4	2.7	9.8	.0	11.6	.0	36.9	36.9
	3.0	2.0	1.7	3.9	2.3	.4	2.7	9.8	.0	11.6	37.4	37.4
10+	.2	.0	.0	.0	.0	.1	.2	1.1	.0	.0	.7	.7
	1.3	3.3	4.6	6.3	1.3	1.5	4.6	19.6	.0	2.2	55.9	55.9
	1.3	3.3	4.6	6.3	1.5	1.7	4.9	19.7	.0	2.2	56.7	56.7
TOT OBS	17.4	5.5	6.3	10.9	3.7	2.3	7.6	31.0	.0	14.3	100.0	406
TOT PCT												

PERIOD: (PRIMARY) 1950-1971  
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27.6N 50.1E

TABLE 9

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

VSBY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.2	.0	.0	.0	.0	.0	.0	.2	.0	.0	.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.0	.0	.0	.0	.0	.0	.2	.0	.2	.7	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.7	
	11-21	.2	.0	.0	.2	.0	.0	.0	.2	.0	.0	.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.1	.0	.2	.0	.0	.2	.2	.0	.0	1.1	
2<5	0-3	.0	.0	.0	.2	.0	.0	.0	.0	.0	.5	.7	
	4-10	.2	.1	.2	.2	.0	.2	.0	.2	.0	.0	1.1	
	11-21	1.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	2.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5	
	TOT %	1.1	.1	.2	.5	.0	.2	.0	1.8	.0	.5	4.3	
5<10	0-3	.0	.0	.3	.5	.1	.0	.5	.7	.0	10.7	12.8	
	4-10	1.2	1.5	1.2	2.3	1.9	.6	1.7	2.7	.0	.0	12.5	
	11-21	1.5	.2	.4	1.0	.5	.0	.6	3.9	.0	.0	10.0	
	22+	.3	.1	.0	.0	.0	.0	.0	.1	.0	.0	.5	
	TOT %	3.0	1.8	1.9	3.7	2.2	.4	2.7	9.3	.0	10.7	35.8	
10+	0-3	.5	.5	1.0	.9	.7	.2	.9	1.7	.0	2.3	8.7	
	4-10	5.5	1.9	2.7	4.4	1.0	1.0	3.0	8.3	.0	.0	27.8	
	11-21	5.8	.5	1.0	1.5	.2	.2	.9	9.1	.0	.0	19.4	
	22+	1.0	.2	.0	.0	.0	.0	.2	.9	.0	.0	2.3	
	TOT %	12.8	3.1	4.7	6.8	1.9	1.5	5.0	19.9	.0	2.3	58.1	
	TOT OBS	17.5	5.1	6.9	11.2	4.1	2.2	7.9	31.4	.0	13.7	100.0	439
	TOT PCT												

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NH > 4.8) AND OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000	150	300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100	2250	2400	TOTAL	NH < 5/8 ANY HCT	TOTAL	NH < 5/8 ANY HCT	TOTAL OBS
0000	.0	.0	1.2	.0	4.8	1.2	1.2	.0	2.4	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	12.0	86.0	83		
0600	.0	1.0	.0	2.0	2.0	3.0	2.0	1.0	2.0	3.0	2.0	3.0	15.8	84.2	101							
1200	.0	.0	.9	3.6	1.8	.0	1.8	.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	11.7	88.3	111		
1800	.0	.0	.0	.0	2.4	.0	1.2	.0	3.5	.0	7.1	92.9	85									
TOT	0	1	2	3	12	6	4	3	8	6	45	335	380									
PCT	.0	.3	.5	.8	3.2	1.6	1.1	.8	2.1	1.6	11.8	88.2	100.0									

TABLE 11

PERCENT FREQUENCY VSEY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	TOTAL	TOTAL OBS
0000	1.3	.0	.0	5.1	38.0	55.7	79							79	79
0600	.0	.0	1.0	3.1	38.5	57.3	96							96	96
1200	.0	.0	.0	2.8	31.8	65.4	107							107	107
1800	1.2	.0	.0	1.2	37.3	60.2	83							83	83
TOT	2	0	1	11	132	219	365							365	365
PCT	.5	.0	.3	3.0	36.2	60.0	100.0							100.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) ANO/DR CEILING HGT (FEET/NH > 4/8) BY HOUR

HOUR (GMT)	<150	150-300	300-450	450-600	600-750	750-900	900-1050	1050-1200	1200-1350	1350-1500	1500-1650	1650-1800	1800-1950	1950-2100	2100-2250	2250-2400	TOTAL
0000	.0	.0	2.5	7.6	11.4	81.0	79										79
0600	.0	.0	1.0	6.3	12.5	81.3	96										96
1200	.0	.0	.0	4.7	10.3	85.0	107										107
1800	.0	1.1	2.4	7.2	90.4	83											83
TOT	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	365
PCT	.0	1.1	5.2	10.4	100.0												100.0

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TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY 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	.4	.7	1.4	.0	.0	.0	3	1.1
85/89	.0	.0	.4	.0	1.4	.4	.0	.0	6	2.1
80/84	.0	.4	1.1	1.4	3.2	1.1	.0	.0	20	7.3
75/79	.0	.0	.0	.7	1.8	4.6	4.9	.7	36	12.6
70/74	.0	.0	.4	1.4	3.9	12.6	8.4	4.6	89	31.2
65/69	.0	.0	.4	4.2	6.3	10.9	10.2	3.5	101	35.4
60/64	.0	.0	.4	2.8	2.3	1.4	2.1	1.4	30	10.5
TOTAL	.0	.1	.8	32	54	88	73	29	285	100.0
PCT	.0	.4	2.8	11.2	18.9	30.9	25.6	10.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

TEMP F	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.0	.0	.4	.0	.0	.0	.0	.0	.7
85/89	.0	.0	.0	.4	.0	.0	.0	.4	.0	1.4
80/84	1.1	.2	.2	.4	.0	.0	.4	.8	.0	3.2
75/79	.9	.8	1.0	2.6	.1	.2	.5	1.0	.0	4.6
70/74	5.0	1.7	3.1	3.8	.0	.8	2.5	8.2	.0	5.3
65/69	3.4	2.5	1.7	4.3	1.1	1.1	5.0	13.4	.0	2.5
60/64	1.2	.2	.4	.1	.0	.0	1.1	6.3	.0	.0
TOTAL	33	15	17	33	11	7	27	85	0	50
PCT	11.7	5.4	6.2	11.8	3.1	2.6	9.6	30.1	.0	17.5

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	77	76	74	67	60	59	59	67.1	93
0500	86	84	82	70	62	61	61	70.6	140
1200	92	91	86	71	64	61	60	72.1	131
1800	86	79	77	69	62	60	60	68.5	105
TOT	92	85	81	69	62	60	59	69.7	469

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	10.2	15.3	22.0	35.6	16.9	77	59		
0500	.0	20.2	16.9	40.4	14.6	7.9	71	89		
1200	.0	19.5	26.8	21.5	17.1	3.7	70	82		
1800	.0	3.0	35.4	25.4	43.3	14.9	80	67		
TOT	0	42	55	93	77	30	74	297		



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TABLE 17

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

AIR-SEA TMP DIF	57	61	65	69	73	77	81	85	89	TOT	W FOG	MO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.3	.7	3	.0	1-0
14/16	.0	.0	.0	.0	.0	.0	.3	1.0	.3	2	.0	1-7
11/13	.0	.0	.0	.0	.3	.0	.7	.3	.0	4	.0	1-4
9/10	.0	.0	.0	.0	.0	.3	1.7	.0	.0	6	.0	2-1
7/8	.0	.0	.0	.0	2.1	2.4	.7	.0	.0	15	.0	5-2
6	.0	.0	.0	1.0	.7	1.3	.0	.0	.0	18	.3	2-4
5	.0	.0	.3	1.7	3.1	1.0	.0	.0	.0	18	.0	6-2
4	.0	.0	1.4	2.7	3.1	1.0	.0	.0	.0	24	.0	8-2
3	.0	.3	.3	4.5	1.4	.7	.0	.0	.0	21	.3	6-9
2	.0	.3	.3	4.1	.3	.3	.0	.0	.0	16	.0	5-5
1	.0	.7	4.5	5.5	1.4	.3	.0	.0	.0	36	.0	12-4
0	.0	1.4	4.8	5.2	1.4	.0	.0	.0	.0	37	.0	12-7
-1	.0	1.7	5.2	5.2	.7	.0	.0	.0	.0	37	.0	12-7
-2	.0	.7	3.8	1.0	.7	.0	.0	.0	.0	18	.3	5-8
-3	.0	1.0	3.1	1.0	.3	.0	.0	.0	.0	16	.0	5-5
-4	.0	.3	2.3	.3	.0	.0	.0	.0	.0	11	.3	3-4
-5	.0	.7	1.0	.7	.0	.0	.0	.0	.0	7	.0	2-4
-7/8	.0	2.1	.3	.0	.0	.0	.0	.0	.0	7	.0	2-4
TOTAL	1	59	81	96	45	21	10	5	3	292	4	287
P.T.	.3	10.0	27.8	28.0	15.5	7.2	3.4	1.7	1.0	100.0	1.4	98.0

AREA 0024 N. P. PERSIAN GULF  
27.64N 59.1E

MARCH

TABLE 18

PERIODS (PRIMARY)  
(COVER-ALL) 1963-1971

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

HGT	N				NE				48+	PCT	
	1-3	4-10	11-21	22-33	34-47	48+	PCT				
<1	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	4.8	4.5	.0	.0	3.6	.0	.0	.0	.0	3.6
3-4	.0	.0	2.4	.0	.0	1.2	.0	.0	.0	.0	1.2
5-6	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	6.9	6.9	.8	.0	5.1	.0	.3	.0	.0	5.4

HGT	E				SE				48+	PCT	
	1-3	4-10	11-21	22-33	34-47	48+	PCT				
<1	1.2	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.2	.0	.0	.0	5.7	.0	.0	.0	.0	5.7
3-4	.0	1.2	.0	.0	.0	1.2	.0	.0	.0	.0	1.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	4.5	.0	.0	.0	6.9	1.2	.0	.0	.0	9.5

MARCH  
 TABLE 19  
 AREA 0024 N. W. PERSIAN GULF  
 27.4N 50.1E

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

MGT	PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)										PCT	
	1-3	4-10	11-21	22-33	34-47	48+	5	6	7	8		
1-3	.0	2.7	1.0	.0	.0	.0	2.7	.0	.0	.0	.0	.0
4-10	.0	2.9	1.2	.0	.0	.0	2.1	.6	.0	.0	.0	.0
11-21	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0
22-33	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
34-47	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
48+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.6	1.2	.0	.0	.0	4.8	2.1	.0	.0	.0	2.1

MGT	PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)										PCT	
	1-3	4-10	11-21	22-33	34-47	48+	9	10	11	12		
1-3	.0	4.5	.0	.0	.0	.0	4.5	4.8	.0	.0	.0	.0
4-10	.0	4.5	1.2	.0	.0	.0	1.2	9.6	.0	.0	.0	.0
11-21	.0	.0	.0	.0	.0	.0	.0	9.6	1.5	.0	.0	.0
22-33	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
34-47	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
48+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.5	1.2	.0	.0	.0	5.7	14.5	1.5	.0	.0	50.3

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

MARCH

AREA 0024 N. W. PERSIAN GULF  
27.4N 50.1E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOT OBS	
	0-3	4-10	11-21	22-33	34-47	48+	PCT					
<1	38.5	15.1	.0	.0	.0	.0	54.0					
1-2	.8	15.1	11.9	.0	.0	.0	27.8					
3-4	.0	1.6	7.1	1.6	.0	.0	10.3					
5-6	.0	.0	6.3	.8	.0	.0	7.1					
7	.0	.0	.8	.0	.0	.0	.8					
8-9	.0	.0	.0	.0	.0	.0	.0					
10-11	.0	.0	.0	.0	.0	.0	.0					
12	.0	.0	.0	.0	.0	.0	.0					
13-16	.0	.0	.0	.0	.0	.0	.0					
17-19	.0	.0	.0	.0	.0	.0	.0					
20-22	.0	.0	.0	.0	.0	.0	.0					
23-25	.0	.0	.0	.0	.0	.0	.0					
26-32	.0	.0	.0	.0	.0	.0	.0					
33-40	.0	.0	.0	.0	.0	.0	.0					
41-48	.0	.0	.0	.0	.0	.0	.0					
49-60	.0	.0	.0	.0	.0	.0	.0					
61-70	.0	.0	.0	.0	.0	.0	.0					
71-86	.0	.0	.0	.0	.0	.0	.0					
87+	.0	.0	.0	.0	.0	.0	.0					
TOT PCT	39.7	31.7	26.2	2.4	.0	.0	100.0					126

TABLE 19

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

PERIOD (SEC)	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)											TOTAL	MEAN HGT									
	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22			23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	
<6	13.2	27.6	12.0	3.4	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	134	2
6-7	.0	1.3	2.1	2.1	.9	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	3
8-9	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
INDET	26.1	3.4	2.6	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	81	1
TOTAL	92	76	40	20	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	234	2
PCT	39.3	32.5	17.1	6.5	1.3	.9	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1952-1971  
(OVER-ALL) 1910-1971

APRIL

AREA 0024 N. W. PERSIAN GULF  
27.2N 50.2E

TABLE 1  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHHR	RAIN SHHR	DRIL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG PCPN	SNOW	OTHER FRN PCPN					FOG NO	SMOKE	DUST	HAZE	
N	.2	.0	.0	.0	.0	.0	.0	.2	1	.3	.2	.7	.6	14.9	80
NE	.0	.0	.0	.0	.0	.0	.0	.0	0	.3	.0	.0	.0	4.4	22
E	.0	.0	.0	.0	.0	.0	.0	.0	0	.4	.0	.3	.0	11.7	59
SE	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.4	.6	.1	12.2	63
S	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.1	.3	4.4	22
SW	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.1	.1	3.9	20
W	.0	.0	.0	.0	.0	.0	.0	.0	0	.2	.1	.3	.2	6.9	37
NW	.0	.0	.2	.0	.0	.0	.0	.2	1	.0	.5	1.5	1.7	24.3	134
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.4	.0	7.1	36
TOT OBS	1	0	1	0	0	0	0	6	2	6	6	20	15	427	476
TOT PCT	.2	.0	.2	.0	.0	.0	.0	1.3	2	1.3	1.3	4.2	3.2	89.7	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN SHHR	RAIN SHHR	DRIL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG PCPN	SNOW	OTHER FRN PCPN					FOG NO	SMOKE	DUST	HAZE	
0603	.0	.0	.0	.0	.0	.0	.0	.0	0	4.2	.0	.8	1.7	92.3	120
0609	.8	.0	.8	.0	.0	.0	.0	1.6	2	.0	3.1	5.3	2.3	87.3	128
1215	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	1.5	5.3	6.1	87.0	131
1821	.0	.0	.0	.0	.0	.0	.0	.0	0	.9	.0	5.3	2.7	91.2	113
TOT	1	0	1	0	0	0	0	6	2	6	6	21	16	441	492
PCT	.2	.0	.2	.0	.0	.0	.0	1.4	2	1.2	1.2	4.3	3.3	89.6	100.0

PERIOD: PRIMARY 1952-1971  
 (OVER-ALL) 1510-1971

APRIL

AREA 0024 N. W. PERSIAN GULF  
 27.2M 50.2E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR.

WIND DIR	WIND SPEED (KNOTS)							HOUR (GMT)									
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	TOTAL PCT FREQ	MEAN SPO	00	03	06	09	12	15	18	21
N	1.4	9.3	4.6	1.1	.1	.0	87	13.6	10.6	17.6	10.0	13.6	13.6	18.9	16.7	17.5	9.1
NE	1.7	2.6	1.1	.0	.0	.0	29	5.7	6.9	4.8	20.0	3.0	13.6	5.9	.0	7.7	.0
E	1.3	7.5	2.5	.0	.1	.0	60	11.5	8.4	7.5	.0	8.5	.0	14.6	.0	16.4	9.1
SE	1.8	7.6	3.0	.0	*	.0	65	12.4	8.1	8.0	.0	11.2	4.5	13.3	.0	20.4	4.5
S	.2	3.2	1.3	.0	.0	.0	24	4.7	8.6	3.4	.0	7.2	2.3	6.6	.0	2.2	4.5
SW	.9	2.9	.5	.1	.0	.0	22	4.3	6.2	5.5	.0	7.6	2.3	3.0	.0	1.3	9.1
W	.8	5.7	1.9	.2	.0	.0	44	8.5	8.3	13.7	10.0	11.4	17.0	2.7	.0	5.5	9.1
NW	2.7	14.1	8.5	3.1	*	.0	149	25.4	11.2	27.5	60.0	29.0	42.0	27.0	50.0	21.1	54.5
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.8	279	122	24	2	0	41	7.8	.0	10.1	.0	8.5	4.5	6.1	39.3	7.9	.0
TOT OBS	97	53.2	23.3	4.6	.4	.0	524	100.0	8.7	119	5	118	22	132	3	114	11
TOT PCT	16.5	23.2	10.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	TOTAL PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+	48+	00				03	06	09	12	15	18	21	
N	5.0	8.6	2.7	.3	.0	.0	87	16.6	10.6	17.3	13.6	13.6	18.9	16.8				
NE	3.4	2.0	.3	.0	.0	.0	29	5.7	6.9	5.4	4.6	4.6	5.7	17.0				
E	5.2	5.9	.2	.1	.0	.0	60	11.5	8.4	9.1	7.1	1.3	15.8	19.0				
SE	5.2	5.7	.5	*	.0	.0	65	12.4	8.1	7.7	10.2	13.0	19.0	2.4				
S	1.8	2.9	.0	.0	.0	.0	24	4.7	8.6	3.2	6.4	6.5	2.4					
SW	3.3	.9	.0	.1	.0	.0	22	4.3	6.2	5.2	6.8	3.0	2.0					
W	5.7	4.6	.1	.1	.0	.0	44	8.5	8.3	13.3	12.3	2.6	5.3					
NW	6.8	14.1	4.9	.4	.0	.0	149	28.4	11.2	28.8	31.4	29.6	24.0					
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0					
CALM	7.8	251	45	6	0	0	41	7.8	.0	9.7	7.9	6.7	7.2					
TOT OBS	221	47.6	8.2	1.1	.0	.0	524	100.0	8.7	124	140	135	125					
TOT PCT	42.2	23.2	10.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0					

APRIL

PERIOD (PRIMARY) 1952-1971  
(OVER-ALL) 1910-1971

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)				PCT MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33			
0000	9.7	12.1	53.2	21.8	3.2	.0	8.0	100.0
0600	7.9	10.7	52.1	25.7	2.9	.7	8.7	100.0
1200	6.7	8.1	51.9	24.4	8.1	.7	9.9	100.0
1800	7.2	12.0	56.0	23.8	4.0	.0	8.0	100.0
TOT	41	56	279	122	24	2	8.7	524
MEAN	7.8	10.7	53.2	23.3	4.6	.4	.0	100.0

TABLE 5

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

WIND DIR	PCT FREQ							TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-6	3550	6	7		
N	10.1	.8	4.5	2.4	76	3.0	.0	0	3.0
NE	3.8	.0	.5	.5	20	1.7	.0	0	1.7
E	9.3	.2	2.0	1.8	57	2.4	.0	0	2.4
SE	8.6	.8	1.0	2.8	56	2.7	.0	0	2.7
S	3.1	.5	.2	.7	19	1.9	.2	2	1.9
SW	3.8	.5	.2	.0	19	1.7	.0	0	1.7
W	6.8	.0	.9	.2	33	1.1	.0	0	1.1
NW	19.1	2.0	3.4	1.9	111	1.7	.0	0	1.7
VAR	.0	.0	.0	.0	0	.0	.0	0	.0
CALM	6.1	.2	.7	.9	34	1.6	.0	0	1.6
TOT OBS	303	21	58	47	429	2.1	1	12	2.1
TOT PCT	70.6	4.9	13.5	11.0	100.0		.2	2.8	

TABLE 6

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

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8 AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION										TOTAL OBS	ANY HGT OBS			
	000	149	150	299	300	599	600	999	1000	2000			3500		
N	.0	.0	.0	.0	.0	.0	.0	.0	.9	.2	1.0	.8	.9	13.2	76
NE	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0	.1	4.4	20
E	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.8	.0	.3	11.1	57
SE	.0	.0	.0	.0	.0	.0	.0	.0	.2	.5	.5	.2	.2	11.4	56
S	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	19
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	4.4	19
W	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.2	.2	7.2	33
NW	.0	.0	.0	.0	.0	.0	.0	.0	.5	.1	.1	.2	.3	24.1	111
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.2	.5	.0	.0	.0	7.0	34
TOT OBS	1	1	0	0	0	0	0	1	12	12	7	6	8	323	429
TOT PCT	.2	.2	.0	.0	.0	.0	.0	.2	2.8	1.6	2.8	1.4	1.9	86.9	100.0

PERIOD: (PRIMARY) 1952-1971  
(OVER-ALL) 1910-1971

APRIL

AREA 0024 N. W. PERSIAN GULF  
27.2N 50.2E

TABLE 7

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

CEILING (FEET)	OR		OR		VSBY (NM)		OR		OR		CR
	>10	>5	>2	>1	>1/2	>1/4	>500	>0			
OR >6500	.9	3.2	3.6	3.6	3.9	3.9	3.9	3.9	3.9	3.9	3.9
OR >5000	1.5	4.3	5.0	5.0	5.2	5.2	5.2	5.2	5.2	5.2	5.2
OR >3500	3.0	6.6	7.7	7.7	8.0	8.0	8.0	8.0	8.0	8.0	8.0
OR >2000	3.4	8.2	9.3	9.3	9.6	9.6	9.6	9.6	9.6	9.6	9.6
OR >1000	4.6	10.9	12.1	12.1	12.3	12.3	12.3	12.3	12.3	12.3	12.3
OR >600	4.8	11.2	12.3	12.3	12.5	12.5	12.5	12.5	12.5	12.5	12.5
OR >300	4.8	11.2	12.3	12.3	12.5	12.5	12.5	12.5	12.5	12.5	12.5
OR >150	4.8	11.2	12.3	12.3	12.5	12.5	12.5	12.5	12.5	12.5	12.5
OR > 0	4.8	11.2	12.3	12.3	12.5	12.5	12.5	12.5	12.5	12.5	12.5
TOTAL	21	49	54	54	55	55	55	55	55	55	56

TOTAL NUMBER OF OBSI 439

PCT FREQ MH <5/81 87.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL
	72.1	5.2	6.2	2.4	.9	2.1	4.5	.6	5.8	.2
										466



AREA 0024 N. M. PERSIAN GULF  
27.2N 50.2E

APRIL

PERIOD: (PRIMARY) 1952-1971  
(COVER-ALL) 1910-1971

TABLE 8  
PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR 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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.4
	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.4
1/2<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.2	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	.2
	.2	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	.2
1<2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.3	.0	.0	.3	.1	.1	.1	.3	.0	.0	1.3	1.3
	.3	.0	.0	.3	.1	.1	.1	.3	.0	.0	1.3	1.3
2<5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.5	.1	.0	.5	.1	.0	.0	1.9	.0	.0	3.2	3.2
	.5	.1	.0	.5	.1	.0	.0	1.9	.0	.0	3.2	3.2
5<10	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
	8.5	2.4	7.9	5.5	2.6	1.9	3.3	12.0	.0	4.2	48.5	48.5
	8.7	2.4	7.9	5.5	2.6	1.9	3.3	12.0	.0	4.2	48.5	48.5
10+	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	.2
	7.3	2.2	4.5	6.8	1.7	2.2	4.5	13.7	.0	3.4	46.2	46.2
	7.3	2.2	4.5	6.8	1.7	2.2	4.5	13.9	.0	3.4	46.4	46.4
TOT OBS	16.9	4.7	12.4	13.3	4.6	4.2	7.8	23.3	.0	7.6	100.0	476
TOT PCT												

PERIOD: (PRIMARY) 1952-1971  
(OVER-ALL) 1910-1971

APRIL

AREA 0024 N. W. PERSIAN GULF  
27.2N 50.2E

TABLE 9

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

VSRY (NH)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR CALM	PCT TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.2	.2	.0	.0	.0	.0	.4
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.2	.2	.0	.0	.0	.0	.4	
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	.0	.0
	11-21	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
1<2	0-3	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2
	4-10	.1	.0	.0	.2	.0	.0	.0	.1	.0	.4
	11-21	.2	.0	.0	.0	.0	.0	.0	.2	.0	.4
	22+	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2
TOT %	.3	.0	.0	.3	.1	.1	.1	.3	.2	.0	1.2
2<5	0-3	.0	.1	.0	.2	.0	.0	.0	.0	.0	.2
	4-10	.3	.1	.0	.1	.0	.0	.0	.0	.0	.6
	11-21	.0	.0	.0	.1	.1	.0	.0	.0	.0	.8
	22+	.5	.0	.0	.0	.0	.0	.0	1.4	.0	2.0
TOT %	.8	.1	.0	.5	.1	.0	.0	2.0	.0	3.5	
5<10	0-3	.0	.4	.0	.0	1.2	1.2	.2	.5	.0	6.1
	4-10	4.9	.9	5.1	3.4	1.8	1.4	3.9	6.1	.0	25.5
	11-21	3.1	.9	1.1	1.3	.6	.2	.8	3.8	.0	12.7
	22+	.1	.0	.0	.0	.0	.0	.0	.8	.0	1.0
TOT %	8.1	2.2	7.4	5.1	2.5	1.8	2.9	11.3	3.9	45.3	
10+	0-3	1.5	1.3	1.0	1.1	.1	.7	.5	2.1	.0	11.6
	4-10	4.3	1.4	2.3	3.7	1.0	1.4	3.5	8.3	.0	26.3
	11-21	1.3	.2	.7	1.6	.6	.2	1.1	4.1	.0	9.8
	22+	.6	.0	.1	.8	.0	.0	.1	1.6	.0	1.8
TOT %	7.7	2.9	4.4	6.5	1.7	2.3	5.2	15.2	3.3	49.4	
TOT OBS		17.1	5.2	11.8	12.6	4.6	4.2	8.3	28.9	.0	51.0
TOT PCT										7.3	100.0

PERIOD (PRIMARY) 1952-1971  
(OVER-ALL) 1910-1971

APRIL

AREA 0024 N. W. PERSIAN GULF  
27.2N 50.2E

TABLE 10  
PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	8000+	TOTAL NH <5/8 ANY HGT	TOTAL NH >4/8
00003	.0	.0	.0	.9	2.6	.9	1.8	.9	1.8	.9	9.6
06009	.0	.0	.0	.0	1.8	.0	2.7	1.8	1.8	1.8	9.7
12015	.8	.0	.0	.0	3.3	1.6	4.1	1.6	2.5	4.9	18.9
18021	.0	.0	.0	.0	2.7	2.6	1.8	.9	.9	.0	9.9
TOT	1	0	0	1	12	7	12	6	8	9	56
PCT	.2	.0	.0	.2	2.6	1.5	2.6	1.3	1.7	2.0	12.2

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00003	.0	.0	.0	1.9	46.3	51.9	108
06009	.0	.0	1.0	2.9	50.5	45.6	103
12015	1.7	.8	.0	3.3	48.3	45.8	120
18021	.0	.0	.9	1.7	50.9	46.3	108
TOT	2	1	2	11	215	208	439
PCT	.5	.2	.5	2.5	49.0	47.4	100.0

TABLE 12

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

HOUR (GMT)	<150	<600	<1000	1000+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	2.8	9.3	88.0	108
06009	.0	.0	3.9	8.7	87.4	103
12015	.8	2.5	5.8	15.0	79.2	120
18021	.0	.0	2.8	10.2	87.0	108
TOT	1	2	17	48	374	439
PCT	.2	.7	3.9	10.9	85.2	100.0

APRIL

PERIOD: (PRIMARY) 1952-1971  
(OVER-ALL) 1910-1971

AREA -024 N. W. PERSIAN GULF  
27.2N 50.2E

TABLE 15

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL DBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	90-100			
50/84	.0	.0	.0	.5	.2	.0	.0	.0	.0	.0	7	1.7
55/89	.0	.0	.7	1.2	1.0	1.0	1.2	.2	.2	.2	18	4.3
60/84	.0	.0	.7	1.2	3.8	5.0	3.3	1.7	1.7	1.7	66	15.8
65/79	.0	.0	.2	1.9	4.5	12.4	11.2	6.5	6.5	6.5	154	36.8
70/74	.0	.0	.2	.7	4.5	11.0	11.7	6.7	6.7	6.7	146	34.9
75/69	.0	.0	.0	.5	1.0	.7	2.6	1.7	1.7	1.7	27	6.5
TOTAL	.0	.0	.2	2.1	6.3	12.6	12.6	7.0	7.0	7.0	418	100.0
PCT	.0	.0	2.8	5.0	15.1	30.1	30.1	16.7	16.7	16.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP												
N	NE	E	SE	S	SW	W	NW	VAR	CALM			
.7	.2	.2	.1	.0	.1	.1	.0	.0	.0			
.4	.0	.3	.7	.4	.5	.2	.1	.0	.0			
2.2	.8	3.2	1.9	.8	.7	.3	4.0	.0	.0			
5.9	1.6	4.6	6.6	2.4	1.4	3.3	8.6	.0	.0			
5.0	1.9	2.9	3.9	1.3	1.4	2.9	12.0	.0	.0			
1.6	.3	.7	.5	.0	.5	.9	1.7	.0	.0			
16.8	4.8	12.3	13.8	4.9	4.6	8.0	26.4	.0	.0			

TABLE 15

HOUR (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL DBS
	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS		
0000	87	84	80	72	68	66	65	72.8	123	123	104
0600	93	90	86	77	70	68	68	77.2	143	143	117
1200	94	93	88	78	71	65	65	78.2	138	138	114
1800	92	92	82	74	68	67	64	74.3	129	129	98
TOT	94	90	85	75	69	66	65	75.7	535	535	433

TABLE 16

HOUR (GMT)	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL DBS
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS	
0000	.0	2.9	7.7	25.0	34.6	29.8	82	104	82	104	
0600	.0	16.3	18.8	29.1	23.9	12.0	73	117	73	117	
1200	.0	9.6	25.4	32.5	23.7	8.8	74	114	74	114	
1800	.0	3.1	6.2	31.6	38.8	18.4	61	98	61	98	
TOT	0	36	67	128	129	73	77	433	77	433	

PERIOD: (PRIMARY) 1952-1971  
(OVER-ALL) 1910-1971

APRIL

AREA 0024 N. W. PERSIAN GULF  
27.2N 50.2E

TABLE 17

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

AIR-SEA TEMP DIFF	65	69	73	77	81	85	89	93	TOT	M FOG	NO FOG
17/19	.0	.0	.0	.0	.0	.0	.7	.2	4	.0	.9
14/16	.0	.0	.0	.0	.0	.5	.5	.0	4	.0	.9
11/13	.0	.0	.2	.0	1.2	.7	.0	.2	10	.0	.3
9/10	.0	.0	.0	.0	1.6	1.4	.2	.0	14	.2	3.2
7/8	.0	.2	1.2	2.3	1.9	.2	.0	.2	26	.0	6.0
6	.0	.2	1.5	2.6	1.2	.9	.0	.0	27	.0	5.3
5	.0	.0	2.1	3.7	.9	.2	.0	.0	29	.0	6.7
4	.0	.7	1.4	3.3	.9	.2	.0	.0	27	.0	6.3
3	.2	.9	2.3	1.4	1.4	.0	.0	.0	27	.5	11.6
2	.5	2.6	4.9	3.5	.7	.0	.0	.0	52	.5	10.9
1	.2	1.9	6.3	2.1	.7	.0	.0	.0	49	.5	12.8
0	.9	3.7	5.8	2.6	.0	.0	.0	.0	56	.2	12.4
-1	.0	4.4	2.8	1.2	.0	.0	.0	.0	36	.0	8.4
-2	.7	2.6	2.8	1.2	.0	.0	.0	.0	31	.0	7.2
-3	.0	2.1	.5	.2	.0	.0	.0	.0	12	.0	2.8
-4	.7	.7	.7	.7	.0	.0	.0	.0	12	.0	2.8
-5	.7	.2	1.2	.2	.0	.0	.0	.0	10	.0	2.3
-6	.0	.2	.0	.0	.0	.0	.0	.0	1	.0	.2
-7/-8	.0	.7	.2	.0	.0	.0	.0	.0	4	.0	.9
-9/-10	.2	.5	.0	.0	.0	.0	.0	.0	3	.0	.7
-11/-13	.0	.2	.0	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	18	94	142	108	42	18	6	3	431	8	425
PCT	4.2	21.8	32.9	25.1	9.7	4.2	1.4	.7	100.0	1.4	98.6

PERIOD: (PRIMARY) (OVER-ALL) 1953-1971  
 APRIL  
 AREA 0034 N. W. PERSIAN GULF  
 27.2N 50.2E

TABLE 18

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

HGT	N					NE					48+	PCT
	1-3	4-10	11-21	22-33	34-47	1-3	4-10	11-21	22-33	34-47		
<1	.7	15.4	2.2	.0	.0	2.4	2.9	.7	.0	.0	.0	6.1
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	1.3	.0	.0	.0	.2	.0	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	16.0	4.8	4.8	.0	.0	2.4	3.1	.7	.0	.0	.0	6.3

HGT	E					SE					48+	PCT
	1-3	4-10	11-21	22-33	34-47	1-3	4-10	11-21	22-33	34-47		
<1	1.3	13.6	.0	.0	.0	.7	10.3	.0	.0	.0	.0	11.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	2.2	.0	.0	.0	.0	2.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.0	14.2	.0	.0	.0	.7	13.4	.0	.0	.0	.0	14.2

AREA 0024 N. W. PERSIAN GULF  
27.2N 50.3E

APRIL  
TABLE 18

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

PCT FREQ OF RWD SPEED (KTS) AND DIRFCTION VERSUS SEA HEIGHTS (FT)

HGT	S										TOT PCT			
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21		22-33	34-47	48+
<1	.0	5.5	.0	.0	.0	.0	5.5	.7	5.0	.0	.0	.0	.0	5.7
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.5	.0	.0	.0	.0	5.5	.7	5.1	.0	.0	.0	.0	5.9

HGT	W										TOT PCT			
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21		22-33	34-47	48+
<1	.7	3.3	.0	.0	.0	.0	4.0	.0	13.1	2.2	.0	.0	.0	15.3
1-2	.0	.0	1.3	.0	.0	.0	1.3	.0	1.5	.0	.0	.0	.0	1.7
3-4	.0	.0	.0	.0	.0	.0	1.1	.0	.7	1.1	.0	.0	.0	2.6
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.7	1.5	.0	.0	.0	2.2
7	.0	1.1	.0	.0	.0	.0	1.7	.0	.4	.2	.0	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	5.0	2.4	.0	.0	.0	3.1	.0	17.1	5.3	.0	.0	.0	22.4

PERIOD: (PRIMARY)  
(COVER-ALL) 1963-1971

APRIL

AREA 0024 N. W. PERSIAN GULF  
27.2N 50.2E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)								TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	20.6	58.8	4.4	.0	.0	.0	33.8		
1-2	.6	2.5	1.3	.0	.0	.0	4.4		
3-4	.0	4.4	2.5	.0	.0	.0	6.9		
5-6	.0	.6	1.3	.0	.0	.0	1.9		
7	.0	1.3	1.3	.0	.0	.0	2.5		
8-9	.0	.0	.6	.0	.0	.0	.6		
10-11	.0	.0	.0	.0	.0	.0	.0		
12	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	21.3	67.5	11.3	.0	.0	.0	100.0	160	

TABLE 19

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

PERIOD (SEC)	PERCENT FRIQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)													TOTAL	MEAN HGT							
	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32			33-40	41-48	49-60	61-70	71-86	87+	
<6	34.6	13.3	8.9	2.6	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	209	1
6-7	.0	.6	2.3	1.4	.9	.9	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	5
8-9	.0	.3	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	7
10-11	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	2
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
INDET	27.1	2.3	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	108	0
TOTAL	214	58	45	15	9	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	347	1
PCT	61.7	16.7	13.0	4.3	2.6	1.2	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	0



PERIODS: (PRIMARY) 1949-1971  
(OVER-ALL) 1914-1971

MAY

APEA 0024 N. W. PERSIAN GULF  
27.3N 50.1E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN		ORZL		PRECIPITATION TYPE			HAIL		PCT FREQ		TOTAL		THOR		OTHER WEATHER PHENOMENA		TOTAL											
	SHWR	SHWR	PCPN	PCPN	FRZG	SNOW	OTHER	FRZN	PCPN	AT 02 TIME	AT 08 TIME	PCPN	PCPN	LTNG	PCPN	FOG	SHOKE	HAZE	BLWG	DUST	SIG	NO	SIG	NO	WEA	WEA	OBS	OBS	
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.5	.7	.7	.7	.7	13.3	.5	.5	.5	.5	.5	.5	.5
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.7	.1	.1	.1	.1	7.7	.1	.1	.1	.1	.1	.1	.1
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	1.2	.2	.2	.2	.2	4.1	.2	.2	.2	.2	.2	.2	.2
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.6	.6	.6	.6	2.4	.6	.6	.6	.6	.6	.6	.6
SW	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.4	.4	.4	.4	.4	.4	.4	3.3	.4	.4	.4	.4	.4	.4	.4
W	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	1.3	1.3	1.3	1.3	1.3	1.3	7.5	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.2	2.9	1.5	1.5	1.5	25.8	.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	41	21	21	21	371	41	41	41	41	41	41	41	41
TOT PCT	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.2	.2	10.3	8.5	4.3	4.3	4.3	4.3	75.7	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN		ORZL		PRECIPITATION TYPE			HAIL		PCT FREQ		TOTAL		THOR		OTHER WEATHER PHENOMENA		TOTAL												
	SHWR	SHWR	PCPN	PCPN	FRZG	SNOW	OTHER	FRZN	PCPN	AT 08 TIME	AT 17 TIME	PCPN	PCPN	LTNG	PCPN	FOG	SHOKE	HAZE	BLWG	DUST	SIG	NO	SIG	NO	WEA	WEA	OBS	OBS		
0000Z	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	1.8	1.8	1.8	1.8	4.6	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	
0600Z	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28.8	6.7	6.7	6.7	6.7	3.7	60.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	
1200Z	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	14.7	14.7	14.7	14.7	5.4	79.1	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
1800Z	1.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.0	1.0	1.0	.0	.0	1.0	9.0	9.0	9.0	9.0	5.0	34.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
TOT	1	0	0	0	0	0	0	0	0	1	1	1	1	0	0	52	41	41	41	41	23	284	41	41	41	41	41	41	41	41
PCT	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.2	.2	.0	.0	10.4	8.2	8.2	8.2	8.2	4.6	76.6	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2

MAY

PERIOD: (PRIMARY) 1949-1971  
(OVER-ALL) 1914-1971

AREA 0024 N. M. PERSIAN GULF  
27.3N 50.1E

TABLE 3  
PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL DBS	PCT FREQ	MEAN SPD	C0	03	06	09	12	15	18	21
N	.6	6.9	6.1	2.1	.0	.0	83	15.5	12.6	13.2	50.0	12.3	13.2	23.8	33.2	13.2	5.6
NE	.5	3.8	2.7	1.1	.0	.0	43	8.1	12.0	8.2	50.0	6.9	.0	9.2	.0	10.8	11.1
E	1.3	3.3	1.3	.0	.0	.0	31	5.8	7.2	5.5	.0	3.1	4.2	4.5	.0	12.7	.0
SE	1.4	2.9	1.4	.0	.0	.0	30	5.7	7.3	3.8	.0	4.7	6.9	4.7	.0	11.0	.0
S	.3	2.8	.0	.0	.0	.0	16	3.1	5.6	6.0	.0	2.8	2.8	.0	.0	4.7	.0
SW	.9	3.0	.2	.0	.0	.0	22	4.1	6.2	6.0	.0	3.6	4.2	3.5	16.7	2.5	11.1
W	2.0	5.3	3.6	.0	.0	.0	63	11.9	8.3	13.2	.0	12.3	19.4	10.9	16.7	7.6	11.1
NW	2.0	15.8	16.7	2.8	.0	.0	205	37.3	12.0	33.4	.0	43.2	46.5	37.1	33.2	29.7	50.0
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALC	9.4	240	171	32	0	0	45	8.4	9.7	11.2	1	14.4	2.8	6.3	2	10.2	11.9
TOT DBS	93	44.8	31.9	6.0	.0	.0	536	100.0	9.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
TOT PCT	17.4	44.8	31.9	6.0	.0	.0	536	100.0	9.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL DBS	PCT FREQ	MEAN SPD	C0	03	06	09	12	15	18	21
N	3.2	8.4	3.3	.4	.0	.0	83	15.6	12.6	13.6	13.6	12.5	24.0	12.6	12.6	12.6	12.6
NE	2.2	3.9	1.7	.4	.0	.0	43	8.1	12.0	8.6	8.6	5.6	9.0	10.8	10.8	10.8	10.8
E	2.8	2.8	.2	.0	.0	.0	31	5.8	7.2	5.5	5.5	3.3	4.4	11.7	11.7	11.7	11.7
SE	2.5	3.2	.0	.0	.0	.0	30	5.7	7.3	3.7	3.7	5.1	4.6	10.1	10.1	10.1	10.1
S	2.3	.7	.0	.0	.0	.0	16	3.1	5.6	3.9	3.9	2.8	.0	4.3	4.3	4.3	4.3
SW	2.5	1.5	.1	.0	.0	.0	22	4.1	6.2	5.9	5.9	2.8	3.8	3.2	3.2	3.2	3.2
W	5.4	5.5	1.1	.0	.0	.0	63	11.9	8.3	13.2	13.2	14.2	11.1	7.9	7.9	7.9	7.9
NW	7.8	20.8	7.0	.7	.0	.0	200	37.3	12.0	33.4	33.4	43.9	37.0	31.3	31.3	31.3	31.3
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALC	2.4	251	70	8	0	0	45	8.4	9.7	10.4	10.4	8.9	8.1	8.1	8.1	8.1	8.1
TOT DBS	159	45.8	14.8	1.5	.0	.0	536	100.0	9.7	11.4	11.4	180	131	11.1	11.1	11.1	11.1
TOT PCT	37.1	45.8	14.8	1.5	.0	.0	536	100.0	9.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

PERIODS (PRIMARY) 1949-1971  
(COVER-ALL) 1914-1971

MAY

AREAS 0024 N. M. PERSIAN GULF  
27.3N 50.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33			
0000	10.5	7.0	48.2	28.9	5.3	.0	9.4	114
0600	8.9	6.6	47.6	30.6	6.1	.0	9.5	180
1200	6.1	5.9	42.0	35.9	9.2	.0	11.1	131
1800	6.1	13.5	43.2	32.4	2.7	.0	8.5	111
TOT	45	48	240	171	32	0	9.7	536
PCT	8.4	9.0	44.8	31.9	6.0	.0	100.0	

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8-8	MEAN CLOUD COVER	TOTAL OBS
N	13.1	.6	2.1	.4	1.5	67
NE	6.7	.9	1.1	.9	1.9	39
E	5.4	.2	1.0	.6	1.1	27
SE	4.0	.5	.7	.2	2.2	23
S	2.6	.4	.2	.1	1.2	13
SW	3.5	.1	.3	.7	2.2	19
W	7.5	.9	1.0	.4	1.3	40
NH	30.3	1.2	2.2	.7	.7	141
VAR	.0	.0	.0	.0	.0	0
CALM	8.1	.2	1.0	.2	1.0	39
TOT OBS	332	21	39	17	1.2	409
TOT PCT	81.2	5.1	9.5	4.2	100.0	

TABLE 6

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

WIND DIR	000	149	150	299	300	599	600	999	1000	2000	3500	5000	6500	8000+	NH <5/8	ANY PCT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.4	.0	.0	.0	.0	14.7	67
NE	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.1	.0	.0	.0	.0	8.5	39
E	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	6.1	27
SE	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	5.2	23
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	3.1	13
SW	.2	.0	.0	.0	.0	.0	.0	.0	.2	.4	.1	.0	.0	.0	.0	3.7	19
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	9.4	40
NH	.2	.0	.0	.0	.0	.0	.0	.0	.6	.0	.1	.0	.0	.0	.0	33.1	141
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	8.6	39
TOT OBS	2	0	0	0	0	0	0	0	17	3	3	2	2	3	1	378	409
TOT PCT	.5	.0	.0	.0	.0	.0	.0	.0	4.2	.7	.7	.5	.2	.7	.2	92.4	100.0

PERIOD: (PRIMARY) 1949-1971  
(OVER-ALL) 1914-1971

MAY

AREA 0024 N. W. PERSIAN GULF  
27.3N 50.1E

TABLE 7

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

CEILING (FEET)	OR		OR		OR		OR		OR		CR
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>50			
OR >6500	.2	.9	.9	.9	.9	.9	.9	.9	.9	.9	
OR >6000	.5	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	
OR >5500	1.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	
OR >5000	1.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	
OR >4500	3.7	6.6	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	
OR >4000	3.7	6.6	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	
OR >3500	3.7	6.6	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	
OR >3000	3.7	6.6	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	
OR >2500	3.7	6.6	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	
OR >2000	3.7	6.6	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	
OR >1500	3.7	6.6	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	
OR >1000	3.7	6.6	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	
OR >500	3.7	6.6	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	
OR >0	3.7	6.6	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	
TOTAL	16	28	31	31	31	31	31	31	31	31	

TOTAL NUMBER OF OBS: 427

PCT FREQ NH <5/8: 92.3

TABLE 7A

PERCENTAGE AREA OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	9	TOTAL
	73.4	11.4	3.2	3.0	1.5	1.9	1.7	1.3	1.7	.6	4.83

PERIOD: (PRIMARY) 1/49-1971  
(OVER-ALL) 1/14-1971

MAY

AREA 0024 N. W. PERSIAN GULF  
27.3N 50.1E

TABLE 8

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

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.2	.0	.2	.0	.0	.4	.4
1/2<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.2	.1	.0	.2	.0	.0	.2	.2	.0	.0	.8	.8
	.2	.1	.0	.2	.0	.0	.2	.2	.0	.0	.8	.8
1<2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.3	.0	.0	.0	.0	.4	1.0	3.8	.0	.0	5.6	5.6
	.3	.0	.0	.0	.0	.4	1.0	3.8	.0	.0	5.6	5.6
2<5	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2	.2
	.1	.4	.2	.0	.2	.3	.3	.9	.0	.6	2.9	2.9
	.1	.4	.2	.0	.2	.3	.3	.9	.0	.6	3.1	3.1
5<10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4.4	3.1	2.0	2.6	.7	1.0	3.0	9.9	.0	3.7	31.0	31.0
	4.4	3.1	2.0	2.6	.7	1.0	3.6	9.9	.0	3.7	31.0	31.0
10+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	10.6	5.0	3.6	3.4	2.3	2.5	6.1	21.4	.0	4.1	59.1	59.1
	10.6	5.0	3.6	3.4	2.3	2.5	6.1	21.4	.0	4.1	59.1	59.1
TOT OBS	15.6	8.6	5.8	6.3	3.2	4.4	11.2	36.5	.0	6.5	100.0	484
TOT PCT												

PERIOD (PRIMARY) 1549-1971  
(OVER-ALL) 1-14-1971

MAY

AREA 0024 N. W. PERSIAN GULF  
27.3N 50.1E

TABLE 9

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

WSRV (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.2	.0	.4	.0	.0	.4	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT #	.0	.0	.0	.0	.0	.2	.0	.4	.0	.0	.4	.0
1/2<1	0-3	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	.0
	4-10	.1	.0	.0	.0	.0	.0	.0	.2	.0	.0	.4	.0
	11-21	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
	TOT #	.1	.0	.0	.2	.0	.0	.2	.2	.0	.0	.6	.0
1<2	0-3	.1	.0	.0	.0	.0	.0	.2	.1	.0	.0	.4	.0
	4-10	.2	.0	.0	.0	.0	.4	.4	2.3	.0	.0	3.2	.0
	11-21	.0	.0	.0	.0	.0	.0	.4	1.3	.0	.0	1.9	.0
	TOT #	.3	.0	.0	.0	.0	.4	.9	3.8	.0	.0	5.4	.0
2<5	0-3	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.8	.0
	4-10	.2	.2	.0	.0	.2	.3	.5	.6	.0	.0	1.9	.0
	11-21	.0	.2	.0	.0	.0	.0	.1	.5	.0	.0	.8	.0
	TOT #	.2	.4	.2	.0	.2	.3	.6	1.0	.0	.0	3.4	.0
5<10	0-3	.0	.5	.5	.5	.1	.2	.4	.6	.0	.0	5.6	.0
	4-10	1.9	1.6	1.2	1.3	.3	.7	2.0	2.9	.0	.0	12.2	.0
	11-21	1.7	.8	.4	.6	.0	.1	.9	5.4	.0	.0	9.8	.0
	TOT #	4.2	2.8	2.1	2.5	.7	.9	3.2	9.3	.0	.0	29.1	.0
10+	0-3	.5	.5	.0	.8	.2	.5	1.3	3.1	.0	.0	9.9	.0
	4-10	4.5	2.0	2.1	1.5	2.1	1.7	3.5	9.8	.0	.0	27.2	.0
	11-21	4.4	1.8	.9	.8	.0	.1	2.1	9.3	.0	.0	19.3	.0
	TOT #	13.5	7.7	3.0	3.1	2.3	2.3	6.8	22.6	.0	.0	63.0	.0
TOT OBS												533	
TOT PCT		15.7	8.2	5.8	5.8	3.1	4.1	11.8	37.1	.0	8.4	100.0	

MAY

AREA 0024 N.W. PERSIAN GULF  
27.3N 50.1E

PERIOD (PRIMARY) 1969-1971  
(COVER-ALL) 1914-1971

TABLE 10  
PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL NH < 5/8 ANY HGT	TOTAL OBS
0603	1.0	.0	.0	.0	4.8	1.0	1.0	.0	1.0	.0	8.7	91.3
0609	.0	.0	.0	.0	3.5	.7	.7	1.4	.0	.0	6.3	93.7
12015	.8	.0	.0	.0	5.7	.0	.8	.0	1.6	.8	9.8	90.2
18021	.0	.0	.0	.0	2.2	1.1	.0	.0	.0	.0	3.2	96.8
TOT	2	0	0	0	19	3	3	2	3	1	33	429
PCT	.4	.0	.0	.0	4.1	.6	.6	.4	.6	.2	7.1	92.9

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
0603	1.0	1.0	1.0	1.9	34.6	60.6	104
0609	.9	.0	.0	5.4	27.7	66.1	112
12015	.8	.0	.0	3.3	29.2	66.7	120
18021	.0	1.1	.0	2.2	33.7	63.0	92
TOT	3	2	1	14	133	275	428
PCT	.7	.5	.2	3.3	31.1	64.3	100.0

TABLE 12

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

HOUR (GMT)	<150 <5000	<600 <1000	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
0603	1.9	1.9	4.8	6.7	88.5
0609	.0	.9	6.3	8.0	85.7
12015	.8	.8	4.2	8.3	87.5
18021	.0	1.1	3.3	2.2	94.6
TOT	3	5	20	28	380
PCT	.7	1.2	4.7	6.5	88.8

MAY

AREA 0024 N. W. PERSIAN GULF  
27.3N 50.1E

PERIOD (PRIMAR) 1949-1971  
(OVER-ALL) 1914-1971

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT		
100/104	.0	.0	1.0	.0	.2	.0	.0	.0	.0	.0	5	1.2
95/99	.0	.5	1.5	2.2	1.0	.2	.0	.0	.0	.0	22	5.3
90/94	.0	.2	.5	1.0	3.2	1.7	.0	.0	.0	.0	27	6.6
85/89	.0	.0	1.0	4.1	7.0	5.6	3.2	.7	.0	.0	89	21.6
80/84	.0	.0	.7	3.4	11.4	12.4	12.1	5.8	.0	.0	189	45.9
75/79	.0	.0	.0	.2	4.6	4.6	4.4	.0	.0	.0	76	18.4
70/74	.0	.0	.0	.0	.5	.2	.0	.0	.0	.0	4	1.0
TOTAL	.0	.3	1.9	4.5	11.5	10.2	8.3	4.5	.0	.0	412	100.0
PCT	.0	.7	4.6	10.9	27.9	24.8	20.1	10.9				

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP												
N	NE	E	SE	S	SW	W	NW	VAR	CALM			
.2	.0	.0	.2	.0	.2	.0	.1	.0	.5			
1.4	.5	.2	.3	.0	.0	.0	2.5	.0	.5			
1.7	.2	.0	.7	.0	.6	1.0	2.2	.0	1.0			
3.2	3.0	1.3	2.0	.7	.7	2.0	6.6	.0	3.2			
7.6	3.7	3.6	2.4	1.3	1.3	5.2	17.2	.0	3.2			
2.7	1.6	1.2	1.4	1.1	1.3	2.7	5.2	.0	1.2			
.0	.0	.0	.0	.0	.0	.5	.7	.0	.0			
.65	.37	.26	.29	.14	.17	.45	1.42	.0	.39			
15.8	9.0	6.3	7.0	3.6	4.1	11.1	34.5	.0	8.5			

TABLE 15

HOUR (GMT)	MEASUREMENTS AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL OBS
	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL		
0000	91	90	85	80	75	73	72	80.4	120		
0600	100	97	93	84	78	73	73	84.1	183		
1200	101	100	98	85	77	74	73	86.2	128		
1800	95	91	89	82	76	73	73	82.1	115		
TOT	101	99	94	83	76	73	72	83.4	546		

TABLE 16

HOUR (GMT)	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL OBS
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN		
0000	.0	5.1	23.5	22.4	23.4	31.6	17.3	78	98		
0600	.0	20.2	24.0	27.1	18.6	10.1	72	129			
1200	.0	29.2	34.9	17.9	11.3	6.6	66	106			
1800	.0	6.7	26.7	24.4	23.3	8.9	75	90			
TOT	.0	68	115	107	88	45	73	423			



PERICCI (PRIMARY) 1969-1971  
 (JVES-ALI) 1914-1971

MAY

AREA 0024 N. W. PERSIAN GULF  
 27.3H 50.1E

TABLE 17

P.T. 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	75	77	80	81	84	85	88	89	92	96	TOT	M	WD FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.3	16	.0	2.3
14/16	.0	.0	.0	.0	.0	.0	.0	1.0	1.0	.8	2.0	2.0	12	.0	3.0
11/13	.0	.0	.0	.0	.0	1.0	1.0	1.5	1.5	2.0	1.0	1.0	16	.0	4.0
9/10	.0	.0	.0	.0	.0	2.0	2.0	1.5	1.5	1.5	.0	.0	17	.3	4.0
7/8	.0	.0	.0	.0	.0	1.5	1.5	3.0	3.0	1.3	.0	.0	26	.5	6.1
6	.0	.0	.0	.0	.0	1.5	5.8	5.8	5.8	.5	.0	.0	21	.8	4.5
5	.0	.0	.0	.0	.0	2.3	5.8	5.8	5.8	.5	.0	.0	46	2.5	9.1
4	.0	.0	.0	.0	.0	2.3	5.8	1.8	1.8	.0	.0	.0	41	2.0	8.3
3	.0	.0	.0	.0	.0	2.3	7.8	1.3	1.3	.0	.0	.0	45	2.5	8.8
2	.0	.0	1.0	1.8	5.3	1.8	1.8	.3	.3	.0	.0	.0	36	2.5	6.6
1	.0	.0	1.8	2.5	5.1	1.5	1.5	.0	.0	.0	.0	.0	39	1.0	8.8
0	.0	.0	1.5	3.0	4.8	.5	.5	.0	.0	.0	.0	.0	39	.0	9.8
-1	.0	.0	.5	1.3	1.8	.0	.0	.0	.0	.0	.0	.0	13	.0	2.3
-2	.0	.0	.5	1.0	.5	.0	.0	.0	.0	.0	.0	.0	8	.3	1.8
-3	.3	.3	.3	.5	.3	.0	.0	.0	.0	.0	.0	.0	5	.0	1.3
-4	.0	.0	.8	1.3	.0	.0	.0	.0	.0	.0	.0	.0	8	.3	1.8
-5	.0	.0	.0	.5	.3	.0	.0	.0	.0	.0	.0	.0	3	.0	.8
-6	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	1	.3	.0
-7/-8	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	2	.3	.3
-9/-10	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.3
TOTAL	1	23	76	190	77	29	14	396	52	336	52	336	100.0	13.1	64.8
PCT	.3	5.8	19.2	60.4	19.4	7.3	3.5								

HGT	PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)													
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	10.0	.0	.0	.0	.0	10.0	.0	7.1	.0	.0	.0	.0	7.1
1-2	.0	2.9	.0	.0	.0	.0	2.9	.0	.4	.0	.0	.0	.0	.4
3-4	.0	.0	.0	1.3	.0	.0	1.3	.0	.0	.4	.0	.0	.0	.4
5-6	.0	.0	1.3	.0	.0	.0	1.3	.0	.0	1.7	1.7	.0	.0	3.3
7	.0	.0	1.3	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	12.9	2.5	1.3	.0	.0	16.7	.0	7.5	1.7	2.1	.0	.0	11.3

HGT	PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)													
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	1.7	.0	.0	.0	.0	2.9	2.5	4.2	.0	.0	.0	.0	6.7
1-2	.0	1.3	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	1.7	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	2.9	1.7	.0	.0	.0	5.8	2.5	4.2	.0	.0	.0	.0	6.7

MAY  
AREA 0024 N. W. PERSIAN GULF  
27.3N 50.1E

TABLE 10

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

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

HGT	S				SW				48+	PCT	
	1-3	4-10	11-21	22-33	34-47	48+	11-21	22-33			34-47
<1	1.3	5.4	.0	.0	.0	.0	.0	.0	.0	.0	5.4
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	5.4	.0	.0	.0	.0	6.7	1.7	3.8	.0	5.4

HGT	W				NW				48+	PCT	
	1-3	4-10	11-21	22-33	34-47	48+	11-21	22-33			34-47
<1	.0	5.8	.0	.0	.0	.0	.0	.0	.0	.0	12.1
1-2	.0	4.2	.0	.0	.0	.0	.0	.0	.0	.0	12.9
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	10.0	.0	.0	.0	.0	10.0	3.3	18.3	14.2	37.3

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

MAY

AREA 0024 N. W. PERSIAN GULF  
27.2N 50.1E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT				
<1	35.3	34.1	.0	.0	.0	.0	69.4				
1-2	1.2	9.4	4.7	.0	.0	.0	15.3				
3-4	.0	1.2	2.4	1.2	.0	.0	4.7				
5-6	.0	1.2	3.5	2.4	.0	.0	7.1				
7	.0	.0	1.2	.0	.0	.0	1.2				
8-9	.0	.0	2.4	.0	.0	.0	2.4				
10-11	.0	.0	.0	.0	.0	.0	.0				
12	.0	.0	.0	.0	.0	.0	.0				
13-16	.0	.0	.0	.0	.0	.0	.0				
17-19	.0	.0	.0	.0	.0	.0	.0				
20-22	.0	.0	.0	.0	.0	.0	.0				
23-25	.0	.0	.0	.0	.0	.0	.0				
26-32	.0	.0	.0	.0	.0	.0	.0				
33-40	.0	.0	.0	.0	.0	.0	.0				
41-48	.0	.0	.0	.0	.0	.0	.0				
49-60	.0	.0	.0	.0	.0	.0	.0				
61-70	.0	.0	.0	.0	.0	.0	.0				
71-86	.0	.0	.0	.0	.0	.0	.0				
87+	.0	.0	.0	.0	.0	.0	.0				
TOT PCT	35.3	45.9	14.1	3.5	.0	.0	100.0	85			

TABLE 19  
PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)										67+ TOTAL	MEAN HGT								
	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19			20-27	23-25	26-32	33-40	41-48	49-60	61-70	71-80
<6	16.0	23.1	11.6	3.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.46
6-7	.0	1.1	4.1	3.0	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.26
8-9	.0	.0	.4	.0	.0	.4	.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	.0	.0	.0	.0	.0	1
12-13	.0	.0	.4	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDET	28.4	3.4	1.5	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.90
TOTAL	119	74	48	19	5	3	0	0	0	0	0	0	0	0	0	0	0	0	0	253
PCT	44.4	27.6	17.9	7.1	1.9	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD (PRIMARY) 1959-1970  
(OVER-ALL) 1910-1970

JUNE

AREA 0024 N. W. PERSIAN GULF  
27.1N 50.3E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN		DRZ.	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
	SHHR	SHMR		PCPN	FRZG	SNOW					OTHER	FOG	SMOKE	DUST	BLWG	
N	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.3	1.5	8.9	55		
NE	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.2	3.1	16		
E	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	3.1	17		
SE	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.2	.0	1.3	6		
S	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	1.2	8		
SW	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.3	.0	2.9	19		
W	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	1.3	10.3	66			
NW	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	4.0	47.6	289			
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	0		
CALM	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.2	.0	4.0	22		
TOT OBS	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	9	60	414	501		
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	1.8	8.0	82.6	100.0		

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN		ORZI.	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
	SHHR	SHMR		PCPN	FRZG	SNOW					OTHER	FOG	SMOKE	DUST	BLWG	
0000	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.5	7.5	84.2	120		
0600	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	4.4	9.6	76.5	126		
1200	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.7	7.0	85.9	142		
1800	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.9	5.2	85.3	116		
TOT	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	9	38	41	514		
PCT	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	1.3	7.4	82.9	100.0		

JUNE

PERIOD: (PRIMARY) 1953-1970  
(OVER-ALL) 1910-1970

AREA 0024 N.W. PERSIAN GULF  
27.2N 50.3E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)									
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPO	00	03	06	09	12	15	18	21			
N	.8	4.8	4.5	1.0	.0	.0	59	11.1	11.7	9.4	.0	9.4	7.7	16.1	16.7	8.2	21.9			
NE	.4	1.4	1.2	.1	.0	.0	16	3.1	10.0	2.3	.0	.2	.0	5.0	.0	5.9	.0			
E	.7	2.5	.0	.0	.0	.0	17	3.3	4.8	3.3	.0	1.7	7.7	3.5	33.3	5.2	.0			
SE	1.0	.5	.2	.0	.0	.0	19	1.7	4.3	.8	.0	1.9	.0	2.3	.0	2.0	.0			
S	.6	.8	.1	.0	.0	.0	8	1.5	5.0	.0	.0	.9	.0	2.7	.0	1.8	12.5			
SW	.2	2.7	.6	.0	.0	.0	18	3.5	6.5	8.1	.0	3.0	.0	.9	.0	3.2	.0			
W	1.6	5.7	5.1	.0	.0	.0	71	13.4	8.8	12.5	.0	14.4	19.2	13.1	.0	14.1	.0			
WV	2.5	23.6	23.4	7.3	.0	.0	301	56.7	10.7	58.5	100.0	67.2	42.3	52.1	16.7	52.3	26.1			
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CALC	5.6	.0	.0	.0	.0	.0	30	5.6	.0	5.0	.0	2.2	23.1	4.3	33.3	7.3	37.5			
TOT OBS	71	256	186	18	0	0	531	9.4		120	1	135	13	141	110	100.0	100.0			
TOT PCT	13.4	48.2	35.0	3.4	.0	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0			

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)									
	0-6	7-16	17-17	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPO	00	03	06	09	12	15	18	21				
N	3.0	5.6	2.4	.1	.0	59	11.1	11.7	9.3	9.3	9.3	16.1	16.1	9.1						
NE	.7	2.1	.3	.0	.0	16	3.1	10.0	2.3	2.3	.2	4.9	5.2							
E	5.0	.4	.0	.0	.0	17	3.3	4.8	3.3	3.3	1.4	4.2	4.9							
SE	1.3	.4	.0	.0	.0	9	1.7	4.3	.8	.8	1.7	2.3	1.9							
S	1.2	.3	.0	.0	.0	8	1.5	5.0	.0	.0	.8	2.6	2.5							
SW	2.4	1.0	.0	.0	.0	18	3.5	6.5	8.1	8.1	2.7	.9	3.0							
W	4.9	8.0	.5	.0	.0	71	13.4	8.8	12.4	12.4	14.9	12.8	13.1							
WV	15.3	33.9	8.9	.1	.0	301	56.7	10.7	58.9	58.9	65.0	51.4	50.6							
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
CALC	5.6	.0	.0	.0	.0	30	5.6	.0	5.0	5.0	4.1	4.9	9.3							
TOT OBS	191	275	64	1	0	531	9.4		121	148	144	118								
TOT PCT	36.0	51.8	12.1	.2	.0	100.0			100.0	100.0	100.0	100.0	100.0							

TABLE 4

PERIOD: (PRIMARY) 1953-1970  
 (OVER-ALL) 1910-1970

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)					PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47		
0000	5.0	4.1	54.5	33.1	3.3	.0	9.2	121
0600	4.1	8.8	45.9	35.1	6.1	.0	10.2	148
1215	4.5	8.3	47.2	36.8	2.8	.0	9.6	144
1821	9.3	9.3	45.8	34.7	.8	.0	8.4	118
TOT	30	41	256	186	18	0	9.4	531
PCT	5.6	7.7	48.2	35.0	3.4	.0	100.0	

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8-6	OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	10.1	.5	.4	.0	.0	52	.4
NE	3.5	.0	.0	.0	.0	16	.1
E	3.7	.0	.0	.0	.0	17	.1
SE	1.4	.0	.0	.1	.0	7	.3
S	1.5	.0	.0	.2	.0	8	.8
SW	3.8	.0	.0	.4	.0	18	.0
W	12.9	.0	.0	.4	.0	63	.2
NW	54.9	.9	1.1	.6	.0	273	.2
VAR	.0	.0	.0	.0	.0	0	.0
CALM	3.8	.0	.2	.0	.0	17	.3
TOT OBS	455	7	8	6	6	476	.2
TOT PCT	95.6	1.5	1.7	1.3	1.3	100.0	

TABLE 6

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

WIND DIR	0-2	300	600	1000	2000	3500	5000	6500	8000+	NN <5/8	ANY NOT OBS	TOTAL OBS
N	11.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	52
NE	3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16
E	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17
SE	1.4	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	7
S	1.5	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	8
SW	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18
W	12.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	63
NW	54.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	273
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17
TOT OBS	455	7	8	6	6	6	6	6	6	6	6	476
TOT PCT	95.6	1.5	1.7	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	100.0

PERIOD: (PRIMARY) 1953-1970  
(OVER-ALL) 1910-1970

JUNE

AREA 0024 N. W. PERSIAN GULF  
27.1N 50.3E

TABLE 7  
CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
DR >6500	.0	.0	.0	.0	.0	.0	.0	.0
DR >5000	.0	.2	.2	.2	.2	.2	.2	.2
DR >3500	.0	.2	.2	.2	.2	.2	.2	.2
DR >2000	.0	.2	.4	.4	.4	.4	.4	.4
DR >1000	.0	.2	.4	.4	.4	.4	.4	.4
DR >600	.0	.2	.4	.4	.4	.4	.4	.4
DR >300	.0	.2	.4	.4	.4	.4	.4	.4
DR >150	.0	.2	.4	.4	.4	.4	.4	.4
DR > 0	.0	.4	.6	.8	.8	1.0	1.0	1.0
TOTAL	0	2	3	4	4	5	5	5

TOTAL NUMBER OF OBS: 488 PCT FREQ NH <5/8: 99.0

TABLE 7A  
PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL
95.7	2.6	.2	.0	.0	.0	.0	.2	.4	.2	.6
										493



PERIOD: (PRIMARY) 1953-1970  
(OVER-ALL) 1910-1970

JUNE

AREA 0024 N. W. PERSIAN GULF  
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TABLE 8  
PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

WSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	PRECIPITATION	
													OCCURRENCE	NON-OCCURRENCE
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.3	.0	.0	.0	.0	.2	1.0	.0	.0	.0	1.6	.0	1.6
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.1	.0	.0	.0	.0	.4	1.3	.0	.2	.2	2.0	.0	2.0
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.3	.0	.2	.4	.3	.4	1.6	.0	.0	.0	3.2	.0	3.2
5<10	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	1.9	1.6	.4	.8	.6	1.3	5.1	29.2	.0	.4	44.3	.0	44.3
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	5.1	1.7	2.9	.7	.6	2.3	7.0	24.6	.0	.0	3.8	.0	48.9
TOT OBS		11.1	3.3	3.5	1.6	1.6	3.6	13.2	57.7	.0	4.4	100.0		501
TOT PCT														

JUNE

PERIOD: (PRIMARY) 1953-1970  
(OVER-ALL) 1910-1970

TABLE 9  
PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (MI)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/4	0-3	.0	.0	.0	.0	.0	.0	.4	.0	.0	.2	.6	.0
	4-10	.1	.0	.0	.0	.0	.0	.0	.7	.0	.0	.8	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.0	.0	.0	.0	.0	.4	1.2	.0	.2	1.9	.0
2/5	0-3	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	.0
	4-10	.4	.0	.2	.1	.0	.0	.2	.8	.0	.0	1.7	.0
	11-21	.4	.0	.0	.0	.0	.0	.2	.8	.0	.0	1.3	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.8	.0	.2	.1	.0	.0	.4	1.5	.0	.0	3.2	.0
5/10	0-3	.6	.2	.2	.2	.6	.2	.8	1.7	.0	.8	5.1	.0
	4-10	1.9	.8	.2	.4	.9	.9	2.3	15.9	.0	.0	22.4	.0
	11-21	2.0	.6	.0	.2	.0	.2	1.9	10.0	.0	.0	14.8	.0
	22+	.4	.0	.0	.0	.0	.0	.0	.6	.0	.0	1.0	.0
	TOT %	4.8	1.5	.4	1.0	1.6	1.2	4.9	26.2	.0	.8	43.3	.0
10+	0-3	.1	.2	.3	.4	.2	.0	.3	.9	.0	4.8	7.0	.0
	4-10	2.6	.7	2.3	.3	.3	1.9	3.9	11.1	.0	.0	23.0	.0
	11-21	2.0	.6	.0	.0	.1	.4	3.1	11.3	.0	.0	17.5	.0
	22+	.3	.1	.0	.0	.0	.0	.0	1.3	.0	.0	1.9	.0
	TOT %	5.2	1.6	2.8	.7	.6	2.3	7.5	24.6	.0	4.8	50.0	.0
TOT OBS													526
TOT PCT		11.2	3.1	3.4	1.7	1.5	3.5	13.3	36.5	.0	5.7	100.0	

PERIOD: (PRIMARY) 1953-1970  
(OVER-ALL) 1910-1970

JUNE

AREA 0024 N. W. PERSIAN GULF  
27.1N 50.3E

TABLE 10  
PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, RH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	050	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL
00003	0	0	0	0	0	0	0	0	0	0	0	100.0	117
06009	0	0	0	0	0	0	0	0	0	0	0	99.2	125
12015	1.4	0	0	0	0	0	0	0	0	0	2.1	97.9	141
18021	0	0	0	0	0	0	0	0	0	0	0	99.1	108
TOT	3	0	0	0	1	0	0	1	0	0	5	486	591
PCT	.6	.0	.0	.0	.2	.0	.0	.2	.0	.0	1.0	99.0	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
00003	0	0	0	3.5	43.5	53.0	115
06009	1.6	0	1.6	4.0	42.4	50.4	125
12015	2.1	0	2.1	1.4	41.4	52.9	140
18021	0	0	1.9	4.6	47.2	46.3	108
TOT	5	0	7	16	212	248	488
PCT	1.0	.0	1.4	3.3	43.4	50.8	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1000 <1	1000+ <5 AN05+	NH <5/8 AND 5+	TOTAL OBS
00003	0	0	3.5	0	115
06009	0	1.6	7.2	0	125
12015	1.4	2.9	6.4	0	140
18021	0	0	6.5	0	108
TOT	3	7	29	1	488
PCT	.6	1.4	5.9	.2	100.0

JUNE

PERIOD: (PRIMARY) 1955-1970  
(OVER-ALL) 1910-1970

AREA 0024 N. W. PERSIAN GULF  
27.1N 50.3E

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
100/104	.0	.0	.7	.0	.0	.0	.0	.0	3	.7
95/99	.5	.5	.9	2.6	1.2	.5	.7	.0	29	6.8
90/94	.0	.5	2.4	5.4	9.4	7.8	4.9	.7	132	31.1
85/89	.0	.2	.7	2.1	9.6	15.1	14.1	5.2	200	47.1
80/84	.0	.0	.0	.0	1.6	6.8	5.5	.7	58	13.6
75/79	.0	.0	.0	.0	.0	.0	.0	.7	3	.7
TOTAL	2	5	20	43	93	106	113	43	423	100.0
PCT	.5	1.2	4.7	10.1	21.9	24.9	26.6	10.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
100/104	.2	.2	.0	.0	.0	.0	.0	.3	.0	.0
95/99	1.0	1.6	.0	.0	.2	.3	1.0	2.2	.0	.5
90/94	4.1	1.0	.7	.3	.2	.3	4.6	18.7	.0	.9
85/89	4.4	1.5	1.1	.9	1.3	2.2	6.3	28.2	.0	1.2
80/84	1.8	.6	.2	.2	.0	1.0	1.4	7.9	.0	.5
75/79	.0	.0	.0	.0	.0	.0	.4	.3	.0	.0
TOTAL	48	14	15	6	7	16	58	245	0	13
PCT	11.5	3.4	3.7	1.4	1.6	3.9	13.7	57.6	.0	3.1

TABLE 15

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

HOUR (GMT)	MAX	95%	90%	85%	80%	75%	70%	65%	60%	55%	50%	45%	40%	35%	30%	25%	20%	15%	10%	MIN	MEAN	TOTAL OBS
00203	96	75	91	85	81	79	79	85.5	122													
06009	101	97	95	89	85	82	82	89.5	150													
12015	103	102	97	91	87	85	84	91.5	145													
18021	98	95	93	88	83	80	80	87.6	124													
TOT	103	98	95	88	82	80	79	88.6	541													

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00203	.0	2.1	17.3	22.4	30.6	24.5	7.9	98
06009	.9	20.2	22.9	29.4	22.9	3.7	70	109
12015	.0	25.2	26.6	23.2	19.5	3.3	68	123
18021	.9	11.3	19.8	21.7	34.9	11.3	76	106
TOT	2	70	96	108	116	44	73	436

PERIOD: (PRIMARY) 1953-1970  
(OVER-ALL) 1910-1970

JUNE

AREA 0024 N. W. PERSIAN GULF  
27.1N 50.3E

TABLE 17

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

AIR-SEA TEMP OIF	77	81	85	89	93	TOT	%	FOG	WD
14/16	.0	.0	.0	.0	1.7	12	.0	.0	2.1
11/13	.0	.0	.2	.2	2.8	17	.0	.0	3.4
9/10	.0	.0	1.5	1.5	4.3	18	.0	.0	3.4
7/8	.0	.0	1.7	3.6	3.4	49	.0	.0	10.4
6	.0	.0	1.7	3.6	3.4	41	.0	.0	8.7
5	.0	.4	4.5	6.0	.9	55	.2	.2	11.5
4	.0	.4	6.2	4.7	.4	55	.2	.2	11.5
3	.0	.2	4.7	4.7	.0	43	.2	.2	9.4
2	.0	2.0	5.5	2.3	.0	51	.4	.4	10.4
1	.0	1.9	5.3	1.5	.0	42	.4	.4	8.2
0	.0	3.2	4.7	1.1	.0	13	.2	.2	3.0
-1	.2	1.3	1.7	.0	.0	12	.0	.0	2.6
-2	.6	.4	1.5	.0	.0	6	.0	.0	1.3
-3	.4	.2	.6	.0	.0	8	.2	.2	1.5
-4	.2	1.1	.4	.0	.0	1	.0	.0	.2
-5	.0	.2	.0	.0	.0	1	.0	.0	.2
-7/-8	.0	.2	.0	.0	.0	1	.0	.0	.2
TOTAL	7	59	181	142	70	469	9	9	455
PCT	1.5	12.6	38.6	30.3	14.9	100.0	1.9	1.9	97.0

JUNE  
 TABLE 18  
 AREA 0024 N. W. PERSIAN GULF  
 27.1N 50.3E

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

HGT	PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)				PCT	NE				PCT		
	1-3	4-10	11-21	22-33		34-47	48+	1-3	4-10		11-21	22-33
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0

HGT	PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)				PCT	SE				PCT		
	1-3	4-10	11-21	22-33		34-47	48+	1-3	4-10		11-21	22-33
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

JUNE

PERIODS (PRIMARY)  
(OVER-ALL) 1963-1970

TABLE 10

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

HGT	S					SW					PCT			
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21		22-33	34-47	48+
<1	5.1	.0	1.9	.0	.0	.0	1.1	2.6	5.1	.6	.0	.0	.0	8.3
1-2	.0	1.9	.0	.0	.0	.0	1.9	.0	3.2	.0	.0	.0	.0	3.2
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	5.1	1.9	1.9	.0	.0	.0	9.0	2.6	8.3	.6	.0	.0	.0	11.5

HGT	W					NW					PCT			
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21		22-33	34-47	48+
<1	2.6	9.6	.0	.0	.0	.0	12.2	.0	13.5	.0	.0	.0	.0	13.5
1-2	.0	4.5	1.9	.0	.0	.0	6.4	.0	10.3	16.0	.0	.0	.0	26.3
3-4	.0	2.6	.0	.0	.0	.0	2.6	.0	.0	7.7	.0	.0	.0	7.7
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1	.0	.0	5.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.6	16.7	1.9	.0	.0	.0	21.2	.0	23.7	24.4	5.1	.0	.0	53.2

PERIOD (PRIMARY: (CPEP ALL) 1943-1970

JUNE

AREA 0024 N. W. PERSIAN GULF  
27.1N 50.3E

TABLE 18 (CONT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	16.7	26.2	2.4	.0	.0	.0	45.2	
1-2	.0	19.0	16.7	.0	.0	.0	35.7	
3-4	2.4	2.4	7.1	.0	.0	.0	11.9	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	2.4	4.8	.0	.0	7.1	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	19.0	47.6	28.6	4.8	.0	.0	100.0	42

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+ TOTAL	MEAN HGT	
<6	19.7	14.7	20.1	2.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	152
6-7	.0	1.6	2.0	2.5	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20
8-9	.0	.0	.0	2.0	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDET	20.5	2.0	1.6	1.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOTAL	40.2	23.4	23.8	7.8	3.7	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	63
PCT	40.2	23.4	23.8	7.8	3.7	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	244
																					100.0



AREA 0024 N. M. PERSIAN GULF  
27.4N 50.1E

JULY

PERIOD (PRIMARY) 1948-1970  
(OVER-ALL) 1910-1970

TABLE 1  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHHR	ORZL	PRECIPITATION TYPE			HAIL	PCT FREQ AT DB TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
			FRZG	SNOW	OTHER					FG	SMOKE	DUST	NO	BLWG	
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.7	.9	10.1	48	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	2.2	11	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	2.2	11	
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.5	6.8	30	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.8	7	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.1	1.1	5	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.5	2.0	13.1	63	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	3.1	5.7	32.3	158	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	2.4	1.3	5.9	37	
TOT OBS	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	4.2	4.1	28.1	372	
PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	11.3	11.0	75.5	100.0	

TABLE 2  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN SHHR	ORZL	PRECIPITATION TYPE			HAIL	PCT FREQ AT DB TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
			FRZG	SNOW	OTHER					FG	SMOKE	DUST	NO	BLWG	
0603	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	6.6	12.1	75.0	91	
0609	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	12.4	19.7	72.2	113	
1215	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17.3	11.2	71.4	98	
1821	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	8.1	10.5	79.1	86	
TOT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	4.4	4.2	29.6	388	
PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	11.3	10.8	75.8	100.0	

JULY

PERIOD (PRIMARY) 1948-1970  
(OVER-ALL) 1910-1970

AREA 0024 N. W. PERSIAN GULF  
27.4N 50.1E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPO	HOUR (GMT)											
	0-3	4-10	11-21	22-33				34-47	00	03	06	09	12	15	18	21			
N	1.3	7.9	3.6	.1	.0	57	13.0	8.8	9.8	10.0	10.3	16.4	16.8	8.3	11.8	30.0			
NE	.5	1.0	.5	.0	.0	13	2.9	7.0	4.3	.0	2.2	.0	3.5	5.3	5.0	.0			
E	.9	1.8	.3	.2	.0	14	3.3	7.5	4.3	.0	1.6	5.3	2.2	.0	5.9	.0			
SE	2.7	3.5	.8	.0	.0	30	7.0	5.3	4.0	.0	8.0	.0	8.2	.0	10.6	3.3			
S	1.2	1.2	.0	.0	.0	10	2.4	3.7	3.0	.0	.0	5.3	3.0	16.7	2.6	3.3			
SW	.5	1.2	.1	.0	.0	7	1.7	6.1	4.0	.0	2.2	.0	.0	.0	.6	3.3			
W	1.0	12.2	6.9	.0	.0	79	18.0	9.1	22.7	10.0	25.9	15.8	10.1	.0	12.6	23.3			
NW	2.8	21.0	16.7	1.2	.0	184	41.8	10.8	38.6	60.0	41.5	44.7	49.3	50.0	38.8	30.0			
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CALM	10.0	.0	.0	.0	.0	44	10.0	8.0	9.1	20.0	8.0	10.5	8.9	16.7	14.1	6.7			
TOT OBS	92	224	119	7	0	442	100.0	8.3	99	20.0	112	119	101	6	85	15			
TOT PCT	20.8	50.7	26.9	1.5	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0			

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPO	HOUR (GMT)											
	0-6	7-16	17-27	28-40				41+	00	03	06	09	12	15	18	21			
N	5.3	5.9	1.6	.1	.0	57	13.0	6.8	9.9	11.3	16.4	14.5	8.3	11.8	30.0				
NE	1.4	1.5	.1	.0	.0	13	2.9	7.0	4.1	1.9	1.9	4.3	5.3	5.0	.0				
E	1.8	1.5	.2	.0	.0	14	3.3	7.5	4.1	2.3	2.1	5.0	7.5	5.0	.0				
SE	5.3	1.7	.0	.0	.0	30	7.0	5.3	3.8	6.9	7.7	9.5	5.3	10.6	3.3				
S	2.3	.2	.0	.0	.0	10	2.4	3.7	2.9	.3	3.7	2.8	3.7	2.6	3.3				
SW	.9	.8	.0	.0	.0	7	1.7	6.1	3.8	1.9	.0	1.0	6.1	2.6	3.3				
W	5.3	11.1	1.9	.0	.0	79	18.0	9.1	22.7	24.4	9.6	14.3	10.1	12.6	23.3				
NW	9.4	24.8	7.5	.1	.0	184	41.8	10.8	39.7	42.0	49.3	35.8	50.0	38.8	30.0				
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
CALM	10.0	.0	.0	.0	.0	44	10.0	8.0	9.1	20.0	8.0	10.5	8.9	16.7	14.1	6.7			
TOT OBS	184	209	109	1	0	442	100.0	8.3	104	100.0	100.0	100.0	100.0	100.0	100.0				
TOT PCT	41.6	47.3	10.9	.2	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				

PERIOD: (PRIMARY) 1948-1970  
(COVER-ALL) 1910-1970

JULY

AREA 0024 N. W. MEXICAN GULF  
27.4N 50.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)					TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	
0603	9.6	6.7	51.9	29.8	1.9	.0	104
0609	8.4	9.2	51.1	30.5	.8	.0	131
1215	9.3	14.0	48.6	26.2	1.9	.0	107
1821	13.0	14.0	51.0	20.0	2.0	.0	100
TOT	44	48	224	119	7	0	442
PCT	10.0	10.9	50.7	26.9	1.6	.0	100.0

MEAN		PCT FREQ	
48+	.0	6.8	100.0
MEAN	8.9	100.0	
7.9	100.0		
7.5	100.0		
8.3	100.0		

TABLE 5

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

WIND DIR	PCT FREQ							TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-6	OB:CD	8-6	OB:CD		
NE	11.1	.0	1.1	.0	.0	.0	.0	41	.7
E	3.9	.0	.0	.0	.0	.0	.0	11	.2
SE	8.1	.0	.0	.0	.0	.0	.0	10	.5
S	2.0	.0	.0	.0	.0	.0	.0	30	.4
SW	1.6	.0	.0	.0	.0	.0	.0	6	.1
W	15.6	.0	.0	.0	.0	.0	.0	5	.0
NH	39.4	1.0	1.5	.3	.0	.0	.0	55	.5
VAR	.0	.0	.0	.0	.0	.0	.0	142	.5
CALM	9.8	.0	.0	.0	.0	.0	.0	0	.0
TOT OBS	315	0	13	1	0	0	0	34	.2
TOT PCT	93.5	2.4	3.9	.3	100.0				.5

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 478) AND OCCURRENCE OF NH < 578 BY WIND DIRECTION

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 478)										TOTAL OBS
	000	150	300	600	1000	2000	3500	5000	8000+	NH < 578	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	41
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5
NH	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	55
VAR	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	142
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOT OBS	2	0	0	0	0	1	0	0	0	0	34
TOT PCT	.6	.0	.0	.0	.0	.3	.0	.0	.0	.0	331
											100.0

PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1910-1970

JULY

AREA 0024 N. W. PERSIAN GULF  
27.4N 50.1E

TABLE 7

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

CEILING (FEET)	OR >10	OR >5	OR >2	VSBY (NH) >1	OR >1/2	OR >1/4	OR >50YD	CR >0
OR >6500	.0	.3	.6	.6	.6	.6	.6	.6
OR >5000	.0	.3	.6	.9	.9	.9	.9	.9
OR >3500	.0	.3	.6	.9	.9	.9	.9	.9
OR >2000	.3	.6	.9	1.1	1.1	1.1	1.1	1.1
OR >1000	.3	.6	.9	1.1	1.1	1.1	1.1	1.1
OR >600	.3	.6	.9	1.1	1.1	1.1	1.1	1.1
OR >300	.3	.6	.9	1.1	1.1	1.1	1.1	1.1
OR >150	.3	.6	.9	1.1	1.1	1.1	1.1	1.1
OR >0	.3	.6	1.1	1.4	1.4	1.4	1.7	1.7
TOTAL	1	2	4	5	5	5	6	6

TOTAL NUMBER OF OBS: 357

PCT FREQ NH <5/8: 98.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OSCSO	TOTAL OBS
88.7	6.4	2.5	.0	.0	.0	.3	.6	.6	.0	1.1	362

PEPICO (PRIMARY) 1948-1970  
 (OVER-ALL) 1910-1970

JULY

AREA 0024 N. W. PERSIAN GULF  
 27.4N 50.1E

TABLE 8  
 PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OF NON-OCCURRENCE OF  
 PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (M)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	1.1
	TOT %	.0	.0	.0	.0	.0	.0	1.1	.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	.1	.9	.0	.0	.0	1.1
	TOT %	.0	.0	.0	.0	.0	.1	.9	.0	.0	.0	1.1
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.8	.0	.0	.0	.0	.8	1.3	.0	.0	.0	3.0
	TOT %	.8	.0	.0	.0	.0	.8	1.3	.0	.0	.0	3.0
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.8	.0	.5	1.1	.2	1.2	4.4	.0	1.3	9.7	9.7
	TOT %	.8	.0	.5	1.1	.2	1.2	4.4	.0	1.3	9.7	9.7
5<10	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	3.6	.4	.9	3.4	.5	5.0	10.3	.0	2.7	28.0	28.0
	TOT %	3.6	.4	.9	3.4	.5	5.0	10.3	.0	2.7	28.0	28.0
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	7.6	2.5	1.5	3.6	.6	9.8	24.6	.0	5.9	57.1	57.1
	TOT %	7.6	2.5	1.5	3.6	.6	9.8	24.6	.0	5.9	57.1	57.1
TOT OBS		12.6	2.9	3.0	8.2	2.1	17.0	42.7	.0	10.0	100.0	371
TOT PCT												

PEP1001 (PRIMARY) 1948-1970  
 (COVER-ALL) 1910-1970

JULY

AREA 0024 N. W. PERSIAN GULF  
 27.6N 50.1E

TABLE 9

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

VSSY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5	.5
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	1.0	1.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.1	.4	.0	.0	.5	.5
	11-21	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5	.5
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.1	.8	.0	.0	1.0	1.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.5	.5
	4-10	.7	.0	.0	.0	.0	.0	.1	.8	.0	.0	1.7	1.7
	11-21	.0	.0	.0	.0	.0	.0	.4	.4	.0	.0	.7	.7
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.7	.0	.0	.0	.0	.0	.7	1.4	.0	.0	2.9	2.9	
2<5	0-3	.0	.0	.0	.1	.2	.0	.2	.1	.0	1.2	1.7	1.7
	4-10	.8	.0	.2	.7	.0	.0	.1	1.9	.0	.0	3.8	3.8
	11-21	.4	.0	.2	.2	.0	.0	.8	1.9	.0	.0	3.6	3.6
	22+	.0	.0	.2	.0	.0	.0	.0	.5	.0	.0	.7	.7
TOT %	1.2	.0	.7	1.0	.2	.1	1.1	4.4	.0	1.2	9.8	9.8	
5<10	0-3	.1	.0	.5	.8	.4	.0	.2	.0	.0	2.4	5.3	5.3
	4-10	2.4	.3	.7	2.0	.8	.5	3.7	4.4	.0	.0	14.8	14.8
	11-21	.9	.1	.1	.1	.0	.0	1.1	4.2	.0	.0	6.4	6.4
	22+	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	.2
TOT %	3.4	.4	1.3	3.0	1.1	.5	5.0	9.6	.0	2.4	26.7	26.7	
10+	0-3	.8	.2	.5	2.0	.8	.5	.2	1.4	.0	6.4	12.9	12.9
	4-10	4.2	1.6	.8	.9	.2	.6	7.8	13.7	.0	.0	29.8	29.8
	11-21	2.4	.5	.0	.5	.0	.0	2.3	9.5	.0	.0	15.3	15.3
	22+	.1	.0	.0	.0	.0	.0	.0	.6	.0	.0	.7	.7
TOT %	7.6	2.3	1.3	3.3	1.0	1.1	10.4	25.2	.0	6.4	58.7	58.7	
TOT OBS	12.9	2.7	3.3	7.3	2.5	1.7	17.3	42.4	.0	10.0	100.0	619	
TOT PCT													

PERIOD (PRIMARY) 1948-1970  
(OVER-ALL) 1910-1970

JULY

AREA 0024 N. W. PERSIAN GULF  
27.4N 50.1E

TABLE 10

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

CEILING HEIGHT (FEET)	000	150	300	600	1000	2000	3500	5000	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL
000	140	299	599	999	1999	3499	4999	6499	7999			
0003	.0	.0	.0	.0	.0	1.2	.0	.0	.0	1.2	2.3	86
0609	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	100
1215	.0	.0	.0	.0	.0	.0	1.0	.0	.0	1.0	99.0	96
1821	2.6	.0	.0	.0	.0	.0	.0	.0	1.3	3.9	96.1	77
TOT	2	0	0	0	1	0	1	0	2	6	353	359
PCT	.6	.0	.0	.0	.3	.0	.3	.0	.6	1.7	98.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

CEILING HEIGHT (FEET)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL
0003	1.2	.0	.0	7.1	28.2	53.5	85
0609	.0	1.0	1.0	3.1	23.2	56.7	99
1215	1.0	1.0	2.1	8.3	27.1	60.4	96
1821	2.7	.0	1.3	10.7	32.0	53.3	75
TOT	4	2	4	30	97	218	355
PCT	1.1	.6	1.1	8.5	27.3	61.4	100.0

TABLE 12

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

CEILING HGT (FEET)	<150	<500	<1000	1000+	NH <5/8 AND 5+	TOTAL
0003	.0	1.2	8.2	1.2	90.6	85
0609	1.0	2.0	10.1	.0	89.9	99
1215	1.0	3.1	12.5	.0	87.5	96
1821	4.0	4.0	14.7	1.3	84.0	75
TOT	5	9	40	2	313	355
PCT	1.4	2.5	11.3	.6	88.2	100.0

JULY

PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1910-1970

AREA 0024 N. W. PERSIAN GULF  
27.4N 50.1E

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100				
100/104	.6	.0	.9	.0	.0	.0	.0	.0	.0	.0	5	1.5
95/99	.3	.3	4.5	2.7	3.0	1.8	.6	.0	.0	.0	44	13.3
90/94	.0	1.2	3.0	9.6	14.2	12.7	6.6	1.2	1.2	1.2	161	48.5
85/89	.0	.0	.3	3.0	9.6	9.0	9.0	2.7	2.7	2.7	112	33.7
80/84	.0	.0	.0	.0	.0	.0	1.8	.3	.3	.3	10	3.0
TOTAL	3	5	29	51	92	78	60	14	14	14	332	100.0
PCT	.9	1.5	8.7	15.4	27.7	23.5	18.1	4.2	4.2	4.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP												
	N	NE	E	SE	S	SW	W	NW	VAR	CALM		
	.5	.1	.0	.3	.0	.0	.0	.6	.0	.0	.0	.0
	3	.2	.2	.8	.2	.0	1.6	5.9	.0	1.2	.0	1.2
	6.7	1.1	1.4	4.7	.8	.5	8.4	20.8	.0	4.2	.0	4.2
	2.8	1.7	1.4	2.0	.5	.8	6.0	13.1	.0	3.6	.0	3.6
	.0	.0	.0	.9	.2	.4	.5	1.1	.0	.0	.0	.0
	43	10	10	28	5	3	61	137	0	30	0	30
	13.2	3.0	3.0	8.6	1.7	1.7	18.4	41.4	.0	9.0	.0	9.0

TABLE 15

HOUR (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL OBS
	MAX	99%	95%	90%	5%	1%	MIN	MEAN			
0000	98	95	93	83	84	82	82	88.2	107		
0600	103	100	97	92	86	84	84	91.7	137		
1200	103	102	100	93	88	85	86	93.5	111		
1800	100	98	94	84	84	81	81	89.5	103		
TOT	103	100	98	91	85	83	81	90.8	458		

TABLE 16

HOUR (GMT)	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL OBS
	0-29	30-59	60-69	70-79	80-89	90-100	MEAN				
0000	.0	6.2	37.0	25.9	24.7	6.2	73	81			
0600	.0	34.7	23.8	22.8	14.9	4.0	65	101			
1200	2.3	35.6	28.7	23.0	8.0	2.3	63	87			
1800	1.4	21.6	20.3	21.6	29.7	5.4	72	74			
TOT	1.4	37	28.3	21.6	20	15	68	343			



AREA 0024 N. W. PERSIAN GULF  
27.4N 50.1E

JULY

PERIOD (PRIMARY: 1948-1973  
(OVERALL) 1910-1973)

TABLE 17

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

AIR-SEA TMP DIF	81	85	89	93	96	TOT	M	W	F	FOG	WU	F
14/16	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	1.6	1.6
11/13	.0	.0	.5	1.1	.0	12	.0	.0	.0	.0	2.4	2.4
9/10	.0	.0	.0	1.9	.0	19	.0	.0	.0	.0	3.5	3.5
7/8	.0	.0	.5	5.1	.0	37	.0	.3	.3	.3	7.6	7.6
6	.0	.5	2.2	1.1	.0	16	.0	.0	.0	.0	5.1	5.1
5	.0	.3	4.1	2.2	.0	24	.0	.3	.3	.3	6.2	6.2
4	.3	1.4	9.5	2.7	.0	53	.8	.8	.8	.8	13.7	13.7
3	.3	2.2	4.3	3.0	.0	38	.0	.0	.0	.0	10.0	10.0
2	.3	2.6	3.8	1.4	.0	28	.0	.0	.0	.0	7.8	7.8
1	.0	3.5	5.7	1.1	.0	38	.0	.0	.0	.0	10.5	10.5
0	.8	3.5	5.4	.3	.0	39	.5	.5	.5	.5	9.7	9.7
-1	.5	2.4	2.4	.0	.0	20	.0	.0	.0	.0	5.4	5.4
-2	1.4	3.0	.5	.3	.0	10	.3	.3	.3	.3	4.9	4.9
-3	.0	1.6	.5	.0	.0	8	.0	.0	.0	.0	2.2	2.2
-4	.3	.3	.3	.0	.0	4	.0	.0	.0	.0	1.1	1.1
-5	.0	.3	.0	.0	.0	1	.0	.0	.0	.0	.3	.3
-6	.3	.0	.0	.0	.0	1	.0	.0	.0	.0	.3	.3
TOTAL	15	80	147	74	74	370	8	8	8	8	335	335
PCT	4.1	21.6	39.7	20.0	20.0	100.0	2.2	2.2	2.2	2.2	90.9	90.9

AREA 0024 N. P. PERSIAN GULF  
27.4N 50.1E

JULY  
TABLE 18

PERIOD (PRIMARY)  
(COVER-ALL) 1963-1970

PCT FREQ C.F. WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N					NE					PCT			
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21		22-33	34-47	48+
<1	1.3	12.8	4.3	.0	.0	.0	12.4	.0	3.0	2.0	.0	.0	.0	5.6
1-2	.0	2.3	.0	.0	.0	.0	2.3	.0	1.0	.0	.0	.0	.0	1.3
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	15.1	4.3	.0	.0	.0	20.7	.0	4.0	2.0	.0	.0	.0	5.9

HGT	E					SE					PCT			
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21		22-33	34-47	48+
<1	2.6	1.3	.0	.0	.0	.0	3.9	.0	2.6	.0	.0	.0	.0	5.3
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.6	1.3	.0	.0	.0	.0	3.9	.0	2.6	.0	.0	.0	.0	5.3

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

TABLE 18  
 PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S					TOT PCT
	1-3	4-10	11-21	22-33	34-47	
<1	.0	1.0	.0	.0	.0	1.0
1-2	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	1.0	.0	.0	.0	1.0

HGT	SW					TOT PCT
	1-3	4-10	11-21	22-33	34-47	
<1	.0	4.3	1.0	.0	.0	5.3
1-2	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	4.3	1.0	.0	.0	5.3

HGT	NW					TOT PCT
	1-3	4-10	11-21	22-33	34-47	
<1	1.3	11.5	4.4	.0	.0	17.2
1-2	.0	4.9	6.6	.0	.0	11.5
3-4	.0	.0	.0	1.3	.0	1.3
5-6	.0	.0	1.3	.0	.0	1.3
7	.0	.0	1.3	.0	.0	1.3
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
TOT PCT	1.3	16.4	13.8	1.3	.0	32.8

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

JULY

AREA 0024 N. W. PERSIAN GULF  
27.4N 50.1E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT				
<1	13.8	48.9	17.3	.0	.0	.0	77.8				
1-2	.0	9.9	6.2	.0	.0	.0	16.0				
3-4	.0	1.2	1.2	.0	.0	.0	3.7				
5-6	.0	.0	1.2	.0	.0	.0	1.2				
7	.0	.0	1.2	.0	.0	.0	1.2				
8-9	.0	.0	.0	.0	.0	.0	.0				
10-11	.0	.0	.0	.0	.0	.0	.0				
12	.0	.0	.0	.0	.0	.0	.0				
13	.0	.0	.0	.0	.0	.0	.0				
17-19	.0	.0	.0	.0	.0	.0	.0				
20-22	.0	.0	.0	.0	.0	.0	.0				
23-25	.0	.0	.0	.0	.0	.0	.0				
26-32	.0	.0	.0	.0	.0	.0	.0				
33-40	.0	.0	.0	.0	.0	.0	.0				
41-48	.0	.0	.0	.0	.0	.0	.0				
49-60	.0	.0	.0	.0	.0	.0	.0				
61-70	.0	.0	.0	.0	.0	.0	.0				
71-86	.0	.0	.0	.0	.0	.0	.0				
87+	.0	.0	.0	.0	.0	.0	.0				
TOT PCT	13.6	58.0	27.2	1.2	.0	.0	100.0				

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TABLE 19

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

PERIOD (SEC)	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)													TOTAL	MEAN HGT							
	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32			33-40	41-48	49-60	61-70	71-86	87+	
<6	27.8	19.9	14.1	1.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	154	1
6-7	.0	.8	1.2	1.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
8-9	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
10-11	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDFT	24.9	2.9	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	74
TOTAL	127	58	45	8	2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	241
PCT	52.7	24.1	19.7	3.3	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD (PRIMARY) 1948-1970  
 (OVER-ALL) 1907-1970

AUGUST

AREA 0024 N. W. PERSIAN GULF  
 27.1N 50.3E

TABLE 1  
 PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHR	RAIN SHR	DRZL SHR	PRECIPITATION TYPE			HAIL PCPN	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	
				FRZG PCPN	SNOW PCPN	OTHER PCPN				FOG WD	SMOKE WD	HAZE PCPN	BLWG BLWG	DUST DUST		SIG SIG
N	.0	.0	.0	.0	.0	.0	.0	0	.0	.5	.0	.0	.0	.0	13.6	58
NE	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.2	.0	.0	.0	8.0	34
E	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.5	.0	.0	.0	12.8	55
SE	.0	.0	.0	.0	.0	.0	.0	0	.1	.0	.5	.0	.0	.0	7.0	31
S	.0	.0	.0	.0	.0	.0	.0	0	.1	.0	.0	.0	.0	.0	5.0	21
SW	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.1	.0	.0	.0	3.9	16
W	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.8	.0	.0	.0	11.5	52
NW	.0	.0	.0	.0	.0	.0	.0	0	.0	.3	1.4	.0	.0	.0	25.1	119
VAR	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.2	.0	.0	.0	6.0	26
TOT OBS	.0	.0	.0	.0	.0	.0	.0	0	.1	.4	1.6	.0	.0	.8	38.6	415
TOT PLY	.0	.0	.0	.0	.0	.0	.0	0	.2	1.0	3.9	.0	.0	1.9	93.0	100.0

TABLE 2  
 PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN SHR	RAIN SHR	DRZL SHR	PRECIPITATION TYPE			HAIL PCPN	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	
				FRZG PCPN	SNOW PCPN	OTHER PCPN				FOG WD	SMOKE WD	HAZE PCPN	BLWG BLWG	DUST DUST		SIG SIG
0000	.0	.0	.0	.0	.0	.0	.0	0	.9	.0	5.2	.0	.0	1.7	92.2	116
0609	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	11.0	.0	.0	3.3	85.7	91
12015	.0	.0	.0	.0	.0	.0	.0	0	.0	1.8	.9	.0	.0	.9	96.4	111
18021	.0	.0	.0	.0	.0	.0	.0	0	.0	1.8	.0	.0	.0	1.8	96.4	110
TOT	.0	.0	.0	.0	.0	.0	.0	0	.1	.4	1.7	.0	.0	.8	39.8	428
PCT	.0	.0	.0	.0	.0	.0	.0	0	.2	.9	4.0	.0	.0	1.9	93.0	100.0

PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1907-1970

AUGUST

AREA 0024 N. W. PERSIAN GULF  
27.1N 50.3E

TABLE 2

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OPS	PCT FREQ	MEAN SPD								
N	2.2	7.6	2.8	.0	.0	.0	66	12.7	7.8	5.4	4.7	12.9	5.3	18.7	25.0	13.0	17.6
NE	1.8	4.9	.9	.0	.0	.0	39	7.5	6.0	3.5	1.6	.5	11.1	12.6	23.2	9.2	8.8
E	3.0	7.4	1.9	.0	.0	.0	64	12.3	6.3	10.8	4.7	7.9	16.7	19.2	16.1	20.3	11.8
SE	1.3	5.3	1.0	.0	.0	.0	40	7.7	6.3	11.1	1.6	12.9	13.0	3.4	.0	5.8	11.8
S	1.0	4.1	.0	.0	.0	.0	26	5.0	5.3	8.5	7.8	5.3	.0	3.4	.0	5.1	2.9
SW	.8	2.7	.7	.0	.0	.0	22	4.2	6.5	7.2	12.5	7.1	.0	1.0	5.4	2.4	5.9
W	2.0	9.7	3.5	.0	.0	.0	79	15.1	7.6	19.1	35.9	18.2	22.2	9.2	12.5	8.5	8.8
NW	3.0	15.8	8.7	.6	.0	.0	152	25.0	9.3	21.9	31.3	35.0	27.8	39.6	14.3	25.4	20.6
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.5	307	102	3	0	0	34	6.5	7.1	10.4	.0	5.2	.0	2.9	3.6	10.3	11.8
TOT OPS	113	58.5	19.4	.6	.0	.0	525	100.0	7.1	106	32	75	27	103	23	117	17
TOT PCT	21.3	21.3	21.3	21.3	21.3	21.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)						TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+	48+				00	03	06	09	12	15	18	21
N	6.0	6.2	.5	.0	.0	.0	66	12.7	7.8	5.3	5.3	12.1	20.0	13.6			
NE	5.0	2.6	.0	.0	.0	.0	39	7.5	6.0	3.1	2.9	14.9	9.1				
E	8.0	3.9	.4	.0	.0	.0	64	12.3	6.3	9.4	9.8	10.7	19.2				
SE	4.7	3.0	.0	.0	.0	.0	40	7.7	6.3	8.9	12.9	2.7	6.5				
S	4.0	1.1	.0	.0	.0	.0	26	5.0	5.3	8.3	4.1	2.7	4.9				
SW	2.7	1.5	.0	.0	.0	.0	22	4.2	6.5	10.0	1.6	1.9	2.8				
W	8.1	6.5	.5	.0	.0	.0	79	15.1	7.6	23.0	19.1	5.9	8.6				
NW	9.2	17.3	2.4	.0	.0	.0	152	25.0	9.3	24.1	33.4	34.2	24.2				
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0				
CALM	6.5	221	20	0	0	0	34	6.5	7.1	8.0	4.1	2.1	10.4				
TOT DBS	284	47.1	3.8	.0	.0	.0	525	100.0	7.1	138	122	131	134				
TOT PCT	54.1	54.1	54.1	54.1	54.1	54.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1948-1970  
 (OVER-ALL) 1907-1970

AUGUST

AREA 0024 N. W. PERSIAN GULF  
 27.1N 50.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)				PCT FREQ	TOTAL OBS
	1-3	4-10	11-21	22-33		
0600	8.0	15.9	58.0	.7	100.0	138
0800	4.1	11.5	63.1	1.6	100.0	122
1200	3.1	14.5	53.4	.0	100.0	131
1800	10.4	17.9	59.7	.0	100.0	124
TOT	34	179	307	3	71.1	529
PCT	6.5	15.0	58.5	.6	100.0	

TABLE 5

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

WIND DIR	TOTAL CLOUD AMOUNT (EIGHTHS)							
	0-2	3-4	5-7	8-9	10-11	12-13	14-15	16-18
N	13.3	.0	.2	.0	.0	.0	.0	.0
NE	8.0	.2	.1	.0	.0	.0	.0	.0
E	12.5	.1	.2	.0	.0	.0	.0	.0
SE	7.2	.4	.2	.0	.0	.0	.0	.0
S	5.4	.2	.0	.0	.0	.0	.0	.0
SW	3.8	.2	.0	.0	.0	.0	.0	.0
W	11.9	.5	.0	.0	.0	.0	.0	.0
NW	28.5	.0	.2	.2	.2	.2	.2	.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.1	.0	.2	.0	.0	.0	.0	.0
TOT OBS	394	7	5	1	1	1	1	1
TOT PCT	96.8	1.7	1.2	.2	.2	.2	.2	.2

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 470)  
 AND OCCURRENCE OF NH < 570 BY WIND DIRECTION

WIND DIR	CEILING HEIGHTS (FT, NH > 470)							
	000	149	150	299	300	500	5000	5500
N	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0
S	.0	.0	.0	.0	.0	.0	.0	.0
SW	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	0	0	0	0	0	0	0	0
TOT PCT	0	0	0	0	0	0	0	0

PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1907-1970

AUGUST

AREA 0024 N. W. PERSIAN GULF  
27.1N 50.3E

TABLE 7  
CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >=78) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
OR >6500	.3	.5	.5	.5	.5	.5	.5	.5
OR >6000	.5	.5	.7	.7	.7	.7	.7	.7
OR >5500	.5	.5	.7	.7	.7	.7	.7	.7
OR >2000	.7	.7	1.0	1.0	1.0	1.0	1.0	1.0
OR >1000	.7	1.0	1.2	1.2	1.2	1.2	1.2	1.2
OR >600	.7	1.0	1.2	1.2	1.2	1.2	1.2	1.2
OR >300	.7	1.0	1.2	1.2	1.2	1.2	1.2	1.2
OR >150	.7	1.0	1.2	1.2	1.2	1.2	1.2	1.2
OR >0	.7	1.0	1.2	1.2	1.2	1.2	1.2	1.2
TOTAL	3	4	5	5	5	5	5	5

TOTAL NUMBER OF OBS: 416

PCT FREQ NH <=78: 98.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	TOTAL OBS
92.6	3.6	1.8	.7	.2	.4	.4	.2	.0	448



PERIOD: (PRIMA-Y) 1948-1970  
 (OVP-ALL) 1907-1970

AUGUST

AREA 0024 N. W. PERSIAN GULF  
 27.1N 50.3E

TABLE 8  
 PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
 PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	.2
	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	.2
1/2<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
1<2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.1	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4	.5
	.1	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4	.5
2<5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.2	.0	.2	.0	.2	.2	1.2	.0	.2	2.4	2.4
	.0	.2	.0	.2	.0	.2	.2	1.2	.0	.2	2.4	2.4
5<10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4.6	2.4	6.4	3.9	2.4	.5	3.2	6.8	.0	1.9	32.0	32.0
	4.6	2.4	6.4	3.9	2.4	.5	3.2	6.8	.0	1.9	32.0	32.0
10+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	8.9	5.5	7.0	3.6	2.8	3.3	9.2	20.4	.0	4.1	64.8	64.8
	8.9	5.5	7.0	3.6	2.8	3.3	9.2	20.4	.0	4.1	64.8	64.8
TOT OBS	13.6	8.1	13.4	7.7	5.2	4.1	12.6	29.0	.0	6.3	100.0	412
TOT PCT												

PERIOD (PRIMARY) 1948-1970  
(OVER-ALL) 1907-1970

AUGUST

AREA 0024, N. W. PERSIAN GULF  
27.1N 50.3E

TABLE 9

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

VSBY (mi)	SPO KT	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.4	
	4-10	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.0	.0	.0	.0	.0	.2	.3	.0	.0	.6	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.0	.2	.4	.2	.0	.0	.3	.7	.0	.0	1.6	
	11-21	.0	.2	.0	.0	.0	.2	.0	.4	.0	.0	.8	
	TOT %	.0	.4	.2	.2	.0	.2	.3	1.1	.0	.2	2.6	
5<10	0-3	.5	.2	.9	.2	.2	.1	.2	.5	.0	1.8	4.5	
	4-10	2.8	1.8	3.2	2.1	1.8	.3	2.1	2.9	.0	.0	17.0	
	11-21	.9	.1	1.6	1.1	.0	.1	1.1	2.2	.0	.0	7.3	
	TOT %	4.1	2.1	5.9	3.4	2.0	.5	3.3	5.9	.0	1.8	28.9	
10+	0-3	1.6	1.6	2.3	1.0	.9	.8	1.2	2.0	.0	4.3	15.8	
	4-10	4.5	3.1	4.1	2.9	2.4	2.4	7.0	13.1	.0	.0	39.5	
	11-21	2.1	.6	.2	.0	.0	.4	2.5	4.1	.0	.0	11.9	
	TOT %	8.2	5.3	6.6	3.9	3.3	3.6	10.8	21.6	.0	4.3	67.6	
TOT OBS												494	
TOT PCT		12.4	7.8	12.7	7.5	5.3	4.3	14.7	29.0	.0	6.3	100.0	

AUGUST

PERIODS (PRIMARY) 1948-1970  
(OVER-ALL) 1967-1970

AREA 0024 N. W. PERSIAN GULF  
27.1N 50.3E

TABLE 10  
PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8; AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	5500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL
	1.7	2.9	5.9	9.9	19.9	34.9	49.9	64.9	79.9				
00003	.0	.0	.0	.0	.0	.0	.0	.8	.0	.8	1.5	98.5	131
06009	.0	.0	.0	.0	1.1	1.1	.0	.0	.0	1.1	3.2	96.8	94
12015	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	100.0	109
18021	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	114
TOT	0	0	0	6	1	1	0	1	0	2	5	443	648
PCT	.0	.0	.0	.6	.2	.2	.0	.2	.0	.4	1.1	98.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY JUL.

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.0	.0	.0	2.6	27.4	70.1	117
06009	.0	.0	.0	2.3	40.5	56.8	88
12015	.0	.0	.0	2.8	25.0	72.2	108
18021	1.0	.0	.0	2.9	29.1	67.0	103
TOT	1	0	0	11	125	279	416
PCT	.2	.0	.0	2.6	30.0	67.1	100.0

TABLE 12

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

HOUR (GMT)	<150	<500	<1000	1000+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	.0	2.6	.9	96.6
06009	.0	.0	.0	2.3	3.4	94.3
12015	.0	.0	.0	2.8	.0	97.2
18021	1.0	1.0	1.0	3.9	.0	96.1
TOT	1	1	1	12	4	400
PCT	.2	.2	.2	2.9	1.0	96.2

AUGUST

PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1907-1970

AREA 0024 N. W. PERSIAN GULF  
27.1N 50.3E

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OPS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100				
100/104	.0	.3	.0	.3	.0	.5	.0	.0			4	1.0
95/90	.0	1.8	.5	2.3	7.0	4.4	2.6	.8			75	19.5
90/94	.0	.3	2.3	3.6	8.9	17.4	18.2	7.0			222	57.8
85/89	.0	.0	.0	.0	.8	1.6	8.6	9.1			77	20.1
80/84	.0	.0	.0	.0	.0	.0	.0	1.6			6	1.6
TOTAL	.0	.9	11	24	64	42	113	71			384	100.0
PCT	.0	2.3	2.9	6.3	16.7	24.0	29.4	18.5				

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP												
	N	NE	E	SE	S	SW	W	NW	VAR	CALM		
	.2	.3	.0	.0	.0	.0	.0	.3			.0	.3
	3.7	1.8	2.0	1.0	.7	.1	2.2	7.5			.0	.5
	7.2	2.9	7.2	4.7	4.0	1.5	7.7	18.6			.0	3.9
	1.8	2.1	2.7	1.4	1.6	1.5	3.3	4.2			.0	1.6
	.3	.0	.3	.0	.0	.5	.3	.3			.0	.0
	50	27	46	27	24	14	51	118			0	24
	13.2	7.0	12.2	7.1	6.3	3.6	13.5	30.9			.0	6.3

TABLE 15

HOUR (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL OBS
	MAX	99%	95%	50%	5%	1%	MIN	MEAN			
0600	100	98	94	90	85	82	82	89.9			141
0609	101	100	97	93	89	86	85	92.8			125
1200	102	101	99	94	90	87	85	94.1			137
1800	98	97	95	92	87	85	85	91.2			137
TOT	102	100	97	92	87	83	82	91.1			530

TABLE 16

HOUR (GMT)	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL OBS
	0-20	30-59	60-69	70-79	80-89	90-100	MEAN				
	.0	9.0	15.6	14.4	30.6	33.3	81			111	
	.0	15.1	16.3	25.6	27.9	15.1	74			86	
	.0	19.6	27.2	26.1	23.9	3.3	71			92	
	.0	4.7	11.3	33.0	33.0	17.9	79			106	
TOT	.0	46	65	97	115	72	77			395	

PERIOD (PRIMARY) 1948-1970  
(COVER-ALL) 1907-1970

AUGUST

AREA 0024 N. W. PERSIAN GULF  
27.1N 50.3E

TABLE 17

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

AIR-SEA TMP DIF	81	85	89	93	TOT	W	WD
	84	88	92	96	FOG	FOG	FOG
11/13	.0	.0	.0	.7	7	.0	1.2
9/10	.0	.0	.0	.5	10	.0	1.5
7/8	.0	.0	.2	1.0	15	.0	2.4
6	.0	.0	.7	1.0	9	.0	2.0
5	.0	.2	.2	2.4	22	.0	4.1
4	.0	.0	1.2	3.2	20	.0	4.6
3	.0	.0	2.4	2.7	24	.0	5.6
2	.0	.7	3.0	3.4	30	.5	6.8
1	.0	.5	3.4	3.4	30	.2	7.3
0	.0	2.0	7.3	5.6	61	.2	17.6
-1	.0	1.0	4.4	6.8	50	.2	12.0
-2	.0	1.5	4.1	3.7	38	.0	9.3
-3	.0	1.7	5.1	.5	30	.0	7.3
-4	.2	1.2	4.1	.0	23	.0	5.6
-5	.2	1.7	2.4	.2	15	.0	3.7
-6	.2	1.0	2.0	.0	13	.0	3.2
-7/8	.7	2.4	.0	.0	13	.0	3.2
TOTAL	6	53	168	145	410	4	387
PCT	1.5	12.9	41.0	35.4	100.0	1.0	94.4

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

AUGUST  
TABLE 18

AREA 0024 N. W. PERSIAN GULF  
27.1N 50.3E

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

HGT	N				NE				48+	PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT			
1-2	2.0	3.6	2.0	.0	.0	.0	.0	.0	.0	2.0
3-4	.0	2.0	.0	.0	.0	.0	.0	.0	.0	5.6
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.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
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT FCT	2.0	5.6	2.0	.0	.0	.0	.0	.0	.0	9.7

HGT	SE				48+				PCT	
	1-3	4-10	11-21	22-33	34-47	48+	PCT			
1-2	1.3	2.0	.0	.0	.0	.0	.0	.0	.0	2.0
3-4	3.6	2.0	.0	.0	.0	.0	.0	.0	.0	5.6
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.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
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.6	4.1	.0	.0	.0	.0	.0	.0	.0	7.7

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

AUGUST

TABLE 1B

AREA 0024 N. W. PERSIAN GULF  
27.1N 50.3E

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

HGT	S										TOT PCT			
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21		22-33	34-47	48+
<1	.0	2.0	.0	.0	.0	.0	2.0	.0	2.0	2.0	.0	.0	.0	4.1
1-2	.0	.0	.0	.0	.0	.0	.0	.0	2.0	2.0	.0	.0	.0	4.1
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.0	.0	.0	.0	.0	2.0	.0	2.0	4.1	.0	.0	.0	10.2

HGT	W										TOT PCT			
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21		22-33	34-47	48+
<1	.0	5.6	.0	.0	.0	.0	5.6	.0	10.7	.0	.0	.0	.0	12.8
1-2	.0	8.7	1.5	.0	.0	.0	10.2	.0	11.7	4.6	.0	.0	.0	20.4
3-4	.0	.0	2.0	.0	.0	.0	2.0	.0	2.0	4.1	.0	.0	.0	6.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	14.3	3.6	.0	.0	.0	17.9	.0	6.1	28.6	8.7	.0	.0	43.4

AREA 0024 N. W. PERSIAN GULF  
27 IN 50.3E

AUGUST

PERIOD (PRIMARY)  
(COVER-ALL) 1963-1970

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)								TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCY		
<1	14.5	20.0	3.6	.0	.0	.0	.0	38.2	
1-2	10.9	27.3	10.9	.0	.0	.0	.0	49.1	
3-4	.0	3.6	5.5	.0	.0	.0	.0	9.1	
5-6	.0	3.6	.0	.0	.0	.0	.0	3.6	
7	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PC"	25.5	54.5	20.0	.0	.0	.0	.0	100.0	55

TABLE 19

PERIOD (SEC)	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)												87+ TOTAL	MEAN HGT												
	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25			26-32	33-40	41-48	49-60	61-70	71-86						
<6	6.4	47.8	11.6	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	167	2		
6-7	.0	1.2	2.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	111	3	
8-9	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	
10-11	.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	
12-13	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	
>13	.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	
INDET	22.9	4.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	69	
TOTAL	27.3	122	37	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	249	0	
PCT	29.3	53.0	14.9	2.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	2





SEPTEMBER

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AREA 0024 N. W. PERSIAN GULF  
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TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										WIND DIRECTION BY SPEED AND BY HOUR						
	0-3	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	8.6	3.6	.7	.0	.0	98	14.7	9.1	10.3	7.9	12.9	21.8	20.1	9.5	16.1	9.7
NE	1.9	5.8	.4	.0	.0	.0	54	8.0	5.5	4.8	10.5	1.6	9.7	9.0	28.6	12.8	11.1
E	2.7	4.7	1.3	.0	.0	.0	58	8.7	5.9	6.0	10.5	6.0	6.5	6.6	28.6	14.1	5.6
SE	1.8	3.4	.1	.0	.0	.0	36	5.4	5.0	5.3	5.3	6.4	9.7	3.7	2.4	5.9	.0
S	2.1	2.5	.0	.0	.0	.0	30	4.5	4.1	4.5	5.3	6.2	14.5	3.4	.0	2.4	5.6
SW	3.7	2.6	.2	.0	.0	.0	43	6.5	4.0	14.8	13.2	8.6	1.6	2.7	4.8	1.4	.0
W	2.9	7.9	1.4	.0	.0	.0	82	12.3	5.9	17.2	35.5	19.3	8.1	7.9	7.1	3.1	12.5
NW	3.4	19.2	8.9	1.2	.0	.0	220	32.8	9.1	28.1	11.8	36.4	21.8	40.5	19.0	31.6	44.4
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.0		107	13	0	0	47	7.0	6.7	8.3	.0	2.8	6.5	6.1	.0	12.5	11.1
TOT OBS	184	367	107	13	0	0	671		6.7	145	19	145	31	148	21	144	18
TOT PCT	27.4	54.7	15.9	1.9	.0	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										WIND DIRECTION BY SPEED AND BY HOUR					
	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	5.8	7.3	1.6	.0	.0	98	14.7	9.1	10.1	10.1	14.5	18.8	15.4	15.4		
NE	5.7	2.3	.0	.0	.0	54	8.0	5.5	5.5	5.5	3.0	11.4	12.7	12.7		
E	6.1	2.3	.3	.0	.0	58	8.7	5.9	6.6	6.6	6.1	9.3	13.1	13.1		
SE	4.1	1.3	.0	.0	.0	36	5.4	5.0	5.8	5.8	7.0	3.6	5.2	5.2		
S	3.8	.7	.0	.0	.0	30	4.5	4.1	4.6	4.6	7.7	3.0	1.8	1.8		
SW	5.7	.7	.1	.0	.0	43	6.5	4.0	14.6	14.6	7.2	3.0	1.2	1.2		
W	8.4	3.8	.0	.0	.0	82	12.3	5.9	19.4	19.4	17.3	7.8	4.2	4.2		
NW	12.4	17.4	3.0	.0	.0	220	32.8	9.1	26.2	26.2	33.8	37.9	33.0	33.0		
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	7.0		34	0	0	47	7.0	6.7	7.3	7.3	3.4	5.3	12.3	12.3		
TOT OBS	396	241	34	0	0	671		6.7	164	164	176	169	162	162		
TOT PCT	59.0	35.9	5.1	.0	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0		

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AREA 0024 N. W. PERSIAN GULF  
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)				TOTAL OBS
	1-3	4-10	11-21	22-23	
0000	7.3	25.6	55.5	9.8	164
0600	2.4	25.0	52.3	17.6	176
1215	2.3	11.8	56.8	23.1	169
1821	12.3	19.1	54.3	13.0	162
TOT	47	137	307	107	671
PCT	7.0	20.4	54.7	15.9	100.0

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8-9	TOTAL OBS	MEAN CLOUD COVER
NE	15.3	.0	.0	.0	91	.0
E	8.0	.0	.0	.0	47	.2
SE	9.4	.0	.0	.0	36	.1
S	5.2	.2	.0	.0	32	.1
SW	3.7	.0	.2	.0	23	.2
W	6.9	.0	.0	.0	41	.1
NW	11.7	.2	.0	.0	70	.1
VAR	32.2	.2	.0	.0	174	.1
CALM	6.7	.0	.0	.0	0	.0
TOT OBS	591	3	1	1	596	.1
TOT PCT	99.2	.5	.2	.2	100.0	

TABLE 6

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

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 4/8)				AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION										
	000	149	150	299	300	599	600	799	800+	5000	6499	7999	8499	9999	TOTAL OBS
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	91
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	47
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	56
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	41
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	70
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	174
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOT OBS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	596
TOT PCT	99.2	.5	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	100.0



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PERIOD (PRIMARY) 1953-1970  
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TABLE 5  
PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSSBY (NH)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ND PCP	.1	*	.1	.0	.0	.2	.0	*	.0	.2	.7	.7
TOT 1	.1	*	.1	.0	.0	.2	.0	*	.0	.2	.7	.7
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ND PCP	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	.2
TOT 1	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	.2
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ND PCP	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	.2
TOT 1	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	.2
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ND PCP	.0	.0	.2	.0	.2	.0	.0	.3	.0	.2	.8	.8
TOT 1	.0	.0	.2	.0	.2	.0	.0	.3	.0	.2	.8	.8
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ND PCP	4.8	1.3	1.6	.6	.7	1.3	3.2	10.8	.0	.5	24.8	24.8
TOT 1	4.8	1.3	1.6	.6	.7	1.3	3.2	10.8	.0	.5	24.8	24.8
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ND PCP	10.1	6.7	7.0	4.5	3.0	5.7	8.6	21.9	.0	5.9	73.4	73.4
TOT 1	10.1	6.7	7.0	4.5	3.0	5.7	8.6	21.9	.0	5.9	73.4	73.4
TOT OBS	15.0	8.0	8.9	5.1	3.9	7.1	11.8	33.4	.0	6.7	100.0	593

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SEPTEMBER

AREA 0024, N. W. PERSIAN GULF  
27.2N 50.2E

TABLE 9

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

USBY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT TOTAL DBS	PCT TOTAL DBS
<1/2	0-3	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	.3	.3
	4-10	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.1	.0	.0	.0	.2	.0	.0	.0	.2	.6	.6
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
2/5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.2	.0	.2	.0	.2	.0	.0	.0	.0	.2	.2	.2
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.2	.0	.2	.0	.2	.0	.0	.0	.0	.2	.2	.2
5/10	0-3	.2	.3	.2	.2	.2	.4	.4	.6	.0	.5	2.4	2.4
	4-10	2.0	.9	.4	.5	1.0	2.1	5.2	.0	.0	.0	13.4	13.4
	11-21	1.3	.2	.0	.0	.2	.7	4.3	.0	.0	.0	7.0	7.0
	TOT %	4.5	1.2	1.7	1.7	3.4	3.2	10.4	.0	.0	.5	23.8	23.8
10+	0-3	1.7	1.8	2.3	1.6	1.9	3.7	2.7	3.1	.0	6.3	25.1	25.1
	4-10	5.7	4.7	4.2	2.7	1.7	1.7	5.4	14.4	.0	.0	40.4	40.4
	11-21	2.1	.2	.3	.2	.0	.1	.7	4.5	.0	.0	8.0	8.0
	TOT %	9.7	6.7	6.8	4.4	3.6	5.5	3.0	22.4	.0	6.3	74.1	74.1
TOT DBS		14.5	8.0	8.8	5.0	4.4	6.8	11.9	33.4	.0	7.1	100.0	100.0
TOT PCT													53+

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TABLE 10  
PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL	NH < 5/8 OBS
00003	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
06009	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	99.4
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
18021	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT	1	0	0	0	0	0	0	0	0	0	1	1	606
PCT	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	99.8

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	< 1/2	1/2 < 1	1 < 2	2 < 5	5 < 10	10+	TOTAL OBS
00003	.6	.0	.0	.6	28.4	70.2	155
06009	.0	.0	.0	.7	25.2	74.1	147
12015	.7	.0	.7	.7	20.7	77.3	150
18021	.7	.7	.0	1.4	23.2	73.9	138
TOT	3	1	1	5	144	436	590
PCT	.5	.2	.2	.8	24.6	73.9	100.0

TABLE 12

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

HOUR (GMT)	< 150	< 100	< 1000	1000+	NH < 5/8 AND 5+	TOTAL OBS
00003	.0	.6	1.3	.0	98.7	155
06009	.7	.7	1.4	.0	98.6	147
12015	.0	.7	2.0	.0	98.0	150
18021	.0	1.4	2.9	.0	97.1	138
TOT	1	5	11	0	579	590
PCT	.2	.8	1.9	.0	98.1	100.0

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27.2N 50.2E

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	TOTAL PCT
100/104	.0	.0	.0	.2	.2	.2	.0	.0	5	1.1
95/99	.0	.0	.4	.9	2.2	2.4	.7	.0	30	6.6
90/94	.0	.0	1.3	4.2	11.0	17.1	11.4	3.1	219	48.1
85/89	.0	.0	.0	.7	4.4	10.1	13.0	6.0	169	37.1
80/84	.0	.0	.0	.0	.0	.2	1.8	4.6	30	6.6
75/79	.0	.0	.0	.0	.0	.0	.2	.4	2	.4
TOTAL	.0	.0	1.0	2.7	8.1	13.7	12.3	7.7	453	100.0
PCT	.0	.0	2.2	5.9	17.8	30.1	27.0	16.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
100/104	.4	.3	.0	.0	.0	.0	.2	.0	.0	.2
95/99	.3	.3	.5	.5	.5	.3	.7	2.4	.0	.2
90/94	8.3	4.5	5.5	2.3	2.4	1.9	3.7	17.3	.0	2.2
85/89	6.6	3.7	3.9	1.5	.8	2.6	4.9	10.7	.0	2.4
80/84	.0	.4	.2	.5	.0	1.4	1.2	2.9	.0	.0
75/79	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0
TOTAL	73	43	46	22	17	28	51	151	0	23
PCT	16.2	9.5	10.1	4.9	3.7	6.2	11.2	33.2	.0	5.1

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	95	94	92	88	81	79	78	87.3	149	
06009	99	98	95	91	86	83	79	90.9	165	
12015	103	102	99	92	88	87	81	92.1	139	
18021	95	94	93	90	85	82	80	89.2	140	
TOT	103	99	95	90	83	80	78	89.9	593	

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	3.2	9.5	22.2	29.4	35.7	43	126	
06009	.0	.0	9.6	27.0	28.7	24.3	10.4	79	115	
12015	.0	15.5	23.6	34.5	27.6	2.7	72	110		
18021	.0	6.3	14.2	33.9	29.5	16.1	78	112		
TOT	0	39	85	137	124	78	77	463		



SEPTEMBER

PERIOD: (PRIMARY) 1953-1970  
(OVER-ALL) 1907-1970

AREA 0024 N. M. PERSIAN GULF  
27.2N 50.2E

TABLE 17

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

AIR-SEA TMP DIF	77	81	85	89	93	TOT	N	NO FOG
	8C	84	88	92	96		FOG	
11/13	.0	.0	.0	.2	.0	1	.0	.2
9/10	.0	.0	.0	.0	.0	2	.0	.2
7/8	.0	.0	.0	.0	.6	15	.0	1.8
6	.0	.0	.2	.2	1.0	7	.0	1.4
5	.0	.0	.2	.4	1.0	14	.0	2.6
4	.0	.0	.0	2.0	1.6	21	.0	4.0
3	.0	.0	.2	2.6	1.6	22	.0	4.4
2	.0	.0	.4	4.0	2.2	35	.0	6.6
1	.0	.0	1.0	3.8	1.4	31	.0	6.2
0	.0	.0	3.2	8.6	2.0	71	.0	14.0
-1	.0	.0	3.4	4.2	2.4	50	.0	10.0
-2	.0	.0	3.0	4.0	3.8	54	.0	10.8
-3	.0	.2	3.2	5.6	.0	46	.0	9.2
-4	.0	.8	3.2	2.0	.2	31	.0	6.2
-5	.0	1.0	1.6	2.8	.0	27	.0	5.4
-6	.2	1.4	1.0	2.2	.0	24	.0	4.8
-7/-8	.8	1.4	5.0	1.0	.0	41	.0	8.2
-9/-10	.2	.2	.4	.0	.0	4	.0	.8
-11/-13	.0	.4	.2	.0	.0	3	.0	.6
TOTAL	.6	27	131	219	90	499	.0	486
PCT	1.2	5.4	26.3	45.9	18.0	100.0	.0	97.4

SEPTEMBER  
TABLE 18  
AREA 0024 N. W. PERSIAN GULF  
27.2N 50.2E

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

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	2.0	12.8	.0	.0	.0	.0	14.2	.0	5.2	.0	.0	.0	.0	5.2
1-2	.6	.6	.7	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.6	13.2	1.9	.6	.0	.0	18.3	.0	5.2	.0	.0	.0	.0	5.2

HGT	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	4.1	.0	.0	.0	.0	4.6	.2	3.0	.0	.0	.0	.0	3.1
1-2	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	4.8	.0	.0	.0	.0	5.4	.2	3.0	.0	.0	.0	.0	3.1

SEPTEMBER  
TABLE 18

PERIODS (PRIMARY)  
(OVER-ALL) 1963-1973

AREA 0024 N. W. PERSIAN GULF  
27.2N 50.2E

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

HGT	S				SW				PCT
	1-3	4-10	11-21	22-33	34-47	48+	48+	PCT	
<1	.0	2.2	.0	.0	.0	.0	.0	.0	6.9
1-2	.0	.7	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-85	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.0	.0	.0	.0	.0	.0	.0	6.9

HGT	W				NW				PCT
	1-3	4-10	11-21	22-33	34-47	48+	48+	PCT	
<1	.0	9.0	.0	.0	.0	.0	.0	.0	28.3
1-2	.0	1.1	.7	.0	.0	.0	.0	.0	5.1
3-4	.0	.0	.0	.0	.0	.0	.0	.0	7.8
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-85	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	10.9	1.3	.0	.0	.0	.0	.0	45.2

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOT OBS	
	9-3	4-10	11-21	22-33	34-47	48+	PCT					
<1	0.6	65.5	.7	.0	.0	.0	76.8					
1-2	1.4	6.3	4.9	.0	.0	.0	12.7					
3-4	.7	1.4	6.3	.7	.0	.0	9.2					
5-6	.0	.0	.7	.0	.0	.0	1.4					
7	.0	.0	.0	.0	.0	.0	.0					
8-9	.0	.0	.0	.0	.0	.0	.0					
10-11	.0	.0	.0	.0	.0	.0	.0					
12	.0	.0	.0	.0	.0	.0	.0					
13-16	.0	.0	.0	.0	.0	.0	.0					
17-19	.0	.0	.0	.0	.0	.0	.0					
20-22	.0	.0	.0	.0	.0	.0	.0					
23-25	.0	.0	.0	.0	.0	.0	.0					
26-32	.0	.0	.0	.0	.0	.0	.0					
33-40	.0	.0	.0	.0	.0	.0	.0					
41-58	.0	.0	.0	.0	.0	.0	.0					
49-60	.0	.0	.0	.0	.0	.0	.0					
61-70	.0	.0	.0	.0	.0	.0	.0					
71-86	.0	.0	.0	.0	.0	.0	.0					
87+	.0	.0	.0	.0	.0	.0	.0					
TOT PCT	12.7	73.2	12.7	1.4	.0	.0	100.0					142

TABLE 19

PERIOD (SEC)	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)										87+ TOTAL	MEAN HGT											
	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19			20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86			
<6	27.2	32.5	7.9	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	262	1	
6-7	.0	.5	2.3	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	2	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
INDET	24.6	1.8	.8	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	109	0
TOTAL	204	138	43	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	294	1
PCT	51.8	35.0	10.9	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	.0

OCTOBER  
 AREA 0024 N. W. PERSIAN GULF  
 27.4N 50.0E  
 PERIOD: (PRIMARY) 1948-1970  
 (OVER-ALL) 1912-1970

TABLE 1  
 PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN		RAIN SHWR		ORZL	PRECIPITATION TYPE			HAIL	PCT PREO		TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
	ORZL	SHWR	FRZG	PCPN		FRZN	SNOW	OTHER		PCPN AT DB TIME	PCPN			PCPN	WV	HAZE	BLWG	DUST	
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.5	.0	17.2	93		
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.2	.0	9.2	50		
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.3	.0	9.5	51		
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.2	.0	.0	13.7	74		
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.2	6.8	37		
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.2	.0	5.5	50		
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.2	.0	7.0	58		
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.5	.0	25.5	122		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	0		
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	5.8	31		
TOT OBS	0	0	0	0	0	0	0	0	0	0	0	0	1	9	2	524	586		
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.2	1.7	.4	97.8	100.0		

TABLE 2  
 PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN		RAIN SHWR		ORZL	PRECIPITATION TYPE			HAIL	PCT PREO		TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
	ORZL	SHWR	FRZG	PCPN		FRZN	SNOW	OTHER		PCPN AT DB TIME	PCPN			PCPN	WV	HAZE	BLWG	DUST	
0000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.8	.0	.0	3.0	3		
0600	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	1.9	6		
1200	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	1.7	6		
1800	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	1.5	2		
TOT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	1	0	0	1.9	2		
PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.2	.0	.0	1.7	.4		

OCTOBER

PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1912-1970

AREA 0024 N. W. PERSIAN GULF  
27.4N 50.0E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPO	HOUR (GMT)											
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21				
N	1.0	10.6	5.6	.3	.0	.0	100	17.5	9.2	13.9	23.3	15.7	12.5	19.4	35.9	19.4	15.8				
NE	1.0	6.6	1.2	.0	.0	.0	50	8.8	6.9	10.0	6.7	7.5	8.3	9.3	18.8	8.8	12.6				
E	1.5	6.8	.7	.0	.0	.0	51	5.0	6.3	9.8	.0	4.1	11.1	10.1	6.3	14.0	7.9				
SE	1.6	10.1	1.8	.0	.0	.0	77	13.5	6.5	14.1	16.7	9.3	13.9	11.1	6.3	18.5	28.9				
S	1.0	9.6	.3	.0	.0	.0	40	7.1	6.7	7.3	10.0	5.6	3.9	8.5	6.3	4.3	10.5				
SW	1.2	3.9	.4	.1	.0	.0	32	3.6	6.3	7.0	3.3	11.0	11.1	1.6	.0	2.6	.0				
W	1.7	5.0	1.1	.1	.0	.0	45	7.9	6.8	10.0	10.0	12.9	19.7	6.0	6.3	1.7	7.9				
NW	2.1	12.4	9.4	1.1	.0	.0	145	25.0	10.2	17.0	30.0	33.2	19.4	26.6	20.3	22.8	26.3				
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
CALM	5.4	349	118	10	0	0	31	5.4	7.6	10.9	.0	.7	.0	7.1	.0	7.8	.0				
TOT OBS	95	61.0	20.6	1.7	.0	.0	572	100.0		110	15	134	96	126	16	116	19				
TOT PCT	16.6									100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)												TOTAL OBS	PCT FREQ	MEAN SPO	HOUR (GMT)											
	0-6	7-16	17-27	28-40	41+	00	03	06	09	12	15	18				21											
N	6.3	9.7	1.2	.0	.0	.0	100	17.5	9.2	15.0	15.0	15.0	21.3	18.9													
NE	3.3	3.4	.2	.0	.0	.0	50	8.8	6.9	9.6	9.6	7.6	10.4	8.0													
E	5.8	2.9	.3	.0	.0	.0	51	9.0	6.3	8.6	8.6	5.6	9.7	13.1													
SE	4.4	4.6	.5	.0	.0	.0	77	13.5	6.6	14.4	10.3	10.3	10.6	20.0													
S	4.1	2.9	.0	.1	.0	.0	40	7.1	6.7	7.6	7.4	8.3	5.2														
SW	3.6	1.7	.2	.1	.0	.0	32	3.6	6.3	6.6	11.0	1.6	2.2														
W	4.6	2.9	.4	.0	.0	.0	45	7.9	6.8	10.0	12.2	6.0	2.6														
NW	9.1	12.2	3.6	.2	.0	.0	143	25.0	10.2	18.6	30.3	25.9	23.3														
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0													
CALM	5.4	349	118	10	0	0	31	5.4	7.6	9.6	.6	6.6	6.3	6.7													
TOT OBS	95	61.0	20.6	1.7	.0	.0	572	100.0		125	170	142	135														
TOT PCT	16.6									100.0	100.0	100.0	100.0	100.0													

AREA 0024 N. W. PERSIAN GULF  
27.4N 50.7E

OCTOBER

PERIODS (PRIMARY) 1948-1970  
(DIVER-ALL) 1912-1970

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)				48+	MEAN	PCT		TOTAL OBS
		1-3	4-10	11-21	22-33			34-47	FREQ	
0003	9.6	18.4	56.8	14.4	.0	.0	6.2	100.0	125	
0609	.6	12.9	62.9	21.8	.0	.0	7.9	100.0	170	
1215	5.3	6.3	59.9	24.6	.0	.0	8.5	100.0	142	
1821	6.7	7.4	63.7	20.7	.0	.0	7.5	100.0	135	
TOT	31	64	349	118	3	0	7.6	100.0	572	
PCT	5.4	11.2	61.0	20.6	1.7	.0				

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8-6	MEAN CLOUD COVER	TOTAL OBS
N	15.7	1.1	1.0	.2	.7	80
NE	6.9	.9	1.7	.0	.9	47
E	7.9	.0	1.2	.0	1.2	40
SE	9.9	.4	1.0	.0	.9	50
S	5.5	.2	.2	.0	.7	26
SW	5.3	.6	.2	.0	.5	27
W	6.5	.4	.3	.0	.7	33
NW	23.0	.8	1.6	.1	.5	113
VAR	.0	.0	.0	.0	.0	0
CALM	6.0	.0	.2	.0	.1	28
TOT OBS	97	20	30	1	.7	468
TOT PCT	88.6	4.5	6.7	.2		100.0

TABLE 6

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

WIND DIR	000	149	150	299	300	599	600	999	1000	2000	3500	5000	6500	8000+	ANY <5/8	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	80
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.4	47
E	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.3	40
SE	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.1	10.5	50
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.9	26
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	5.9	27
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	33
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	24.3	113
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28
TOT OBS	0	0	0	0	0	0	0	0	2	0	3	0	0	2	12	448
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.7	.0	.0	.4	2.7	95.6
																100.0

PERIOD: (PRIMARY) 1949-1970  
(OVERALL) 1912-1970

OCTOBER

AREA 0024 N. W. PERSIAN GULF  
27.4N 50.0E

TABLE 7  
CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH > 5/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>000	>0
- OR >6500	2.9	3.1	3.1	3.1	3.1	3.1	3.1	3.1
- OR >5000	2.9	3.1	3.1	3.1	3.1	3.1	3.1	3.1
- OR >3500	3.5	3.7	3.7	3.7	3.7	3.7	3.7	3.7
- OR >2000	3.7	4.2	4.2	4.2	4.2	4.2	4.2	4.2
- OR >1000	3.7	4.2	4.2	4.2	4.2	4.2	4.2	4.2
- OR >800	3.7	4.2	4.2	4.2	4.2	4.2	4.2	4.2
- OR >150	3.7	4.2	4.2	4.2	4.2	4.2	4.2	4.2
- OR > 0	3.7	4.2	4.2	4.2	4.2	4.2	4.2	4.2
TOTAL	17	19	19	19	19	19	19	19

TOTAL NUMBER OF OBS: 456 PCT FREQ NH < 5/8: 95.8

TABLE 7A  
PERCENTAGE FREQ OF LOW CLOUDS (E'GHMS)

	0	1	2	3	4	5	6	7	8	OBSCD	OPS	TOTAL
84.4	4.1	4.8	1.5	.9	.9	2.6	.7	.2	.0	.0	461	



OCTOBER

PERIOD: (PRIMARY) 1943-1970  
(OVER-ALL) 1912-1970

AREA 0024, N. W. PERSIAN GULF  
27.4N 50.0E

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

VSBY (NH)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2<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
1-2	.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
2<5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	3.5	2.5	4.6	6.7	2.9	2.1	2.4	4.5	.0	.4	.4	29.5
	3.5	2.5	4.6	6.7	2.9	2.1	2.4	4.4	.0	.4	.4	29.5
10+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	13.9	6.9	5.0	7.2	3.9	3.6	4.6	19.4	.0	5.4	5.4	70.0
	13.9	6.9	5.0	7.2	3.9	3.6	4.6	19.4	.0	5.4	5.4	70.0
TOT OBS	17.4	9.4	9.7	13.9	6.9	5.6	7.2	24.0	.0	5.8	5.8	100.0
TOT PCT												536

PERIOD (PRIMARY) 1948-1970  
 (OVER-ALL) 1912-1970

OCTOBER

AREA 0024 N. W. PERSIAN GULF  
 27.4N 50.0E

TABLE 9

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

VSRY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR CALM	PCT TOTAL DBS
<1/2	0-3	.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
	TOT %	.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
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.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
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.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
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	0-3	.3	2.0	3.6	5.0	3.1	1.4	1.8	2.3	.0	2.2
	4-10	2.3	.4	.8	1.2	.0	.0	.6	1.7	.0	21.6
	11-21	.9	.0	.0	.0	.0	.0	.0	.0	.0	5.5
	TOT %	3.5	2.4	4.4	6.2	3.1	2.0	2.0	4.3	.0	29.4
10+	0-3	.7	1.1	1.6	1.1	.9	.7	1.5	1.9	.0	14.5
	4-10	8.4	3.7	3.2	5.1	2.4	2.3	2.9	10.0	.0	39.0
	11-21	4.4	.8	.0	.6	.4	.4	.4	7.6	.0	14.7
	TOT %	13.9	6.6	4.8	6.8	3.8	3.6	4.9	20.6	.0	70.0
TOT PCT	17.4	9.0	9.2	13.6	7.2	5.5	7.7	25.0	.0	100.0	

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TABLE 10

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

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL NH < 5/8 OBS
00003	.0	.0	.0	.0	.0	.0	.9	.0	.9	1.8	4.5	95.5	112
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.2	6.9	93.1	130
12015	.0	.0	.0	.0	.0	.0	1.7	.0	.0	1.7	3.3	96.7	121
18021	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	99.0	97
TOT	0	0	0	0	2	0	3	0	2	12	19	441	460
PCT	.0	.0	.0	.0	.4	.0	.7	.0	.4	2.6	4.1	95.9	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
00003	.0	.0	.0	.0	21.4	78.6	112
06009	.0	.0	.0	.8	18.0	81.3	128
12015	.0	.0	.0	.0	15.8	84.2	120
18021	.0	.0	.0	.0	20.8	79.2	96
TOT	0	0	0	1	86	369	456
PCT	.0	.0	.0	.2	18.9	80.9	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	< 600	< 1000	1000+ AND 5+	TOTAL UN5
00003	.0	.0	.0	4.5	95.5
06009	.0	.0	.8	7.0	92.2
12015	.0	.0	.0	3.3	96.7
18021	.0	.0	.0	1.0	99.0
TOT	0	0	1	19	436
PCT	.0	.0	.2	4.2	95.8

OCTOBER

PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1912-1970

AREA 6024 N. W. PERSIAN GULF  
27.4N 50.0E

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100				
95/99	.0	.0	.2	1.0	1.4	.4	.0	.0	10	2.0		
90/94	.0	.0	.4	2.3	3.9	3.5	.4	.6	54	11.1		
85/89	.0	.0	.6	5.7	8.4	13.9	9.2	7.6	222	45.5		
80/84	.0	.0	.0	4.5	6.4	6.4	7.2	9.0	168	34.4		
75/79	.0	.0	.0	1.4	1.4	1.6	1.2	1.0	33	6.8		
70/74	.0	.0	.0	.0	.0	.2	.0	.0	1	.2		
TOTAL	0	0	11	73	100	127	89	89	488	100.0		
PCT	.0	.0	2.3	15.0	20.5	25.0	18.0	18.2				

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										
N	NE	E	SE	S	SW	W	NW	VAR	CALM	
.2	.4	.2	.2	.0	.0	.6	.2	.0	.0	
3.0	1.1	.9	.3	.5	.5	1.6	2.6	.0	.6	
8.2	4.7	5.1	6.0	3.2	1.8	1.7	10.9	.0	1.8	
5.6	3.0	3.3	5.6	2.1	2.3	2.8	7.1	.0	2.5	
1.0	.6	.5	.2	.6	.2	.4	2.9	.0	.4	
.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	
88	47	48	70	31	24	35	115	0	26	
18.0	9.7	10.0	14.5	6.5	5.0	7.3	23.7	.0	5.2	

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										
MEAN	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS	
06003	100	90	88	84	78	76	74	83.6	124	
06009	99	96	94	86	78	75	75	86.3	172	
12015	99	98	94	87	62	78	78	87.4	141	
18021	90	89	88	84	77	75	75	83.6	133	
TOT	100	96	92	85	76	75	74	85.3	570	

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										
0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS			
.0	12.3	11.5	25.7	15.0	34.5	79	113			
.0	18.2	26.7	23.1	16.8	11.2	71	143			
.0	23.3	25.0	28.3	15.0	8.3	70	120			
.0	15.4	15.4	26.5	22.2	20.5	76	117			
0	87	102	127	88	53	74	493			

PERIOD: (PRIMARY) 1968-1970  
 (OVER-ALL) 1612-1972

OCTOBER

AREA 0024 N. W. PAKISTAN GULF  
 27.4N 50.0E

TABLE 17

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

AIR-SEA TMP DIF	73	77	81	85	89	93	TOT	W	WD
	76	80	84	88	92	96		FOG	FOG
9/10	.0	.0	.0	.0	.2	.0	3	.0	.5
7/8	.0	.0	.0	.2	.5	.9	13	.0	2.3
6	.0	.0	.0	.5	.0	.5	4	.0	.9
5	.0	.0	.0	.5	.2	.7	6	.0	1.4
4	.0	.0	.0	.0	1.6	.5	10	.0	2.3
3	.0	.0	.7	1.2	1.2	.7	16	.0	3.7
2	.0	.0	1.2	3.3	1.9	.7	30	.0	7.0
1	.0	.2	2.3	6.3	3.3	.2	53	.0	12.4
0	.0	.5	3.7	5.4	1.4	.0	67	.0	11.0
-1	.0	.7	5.1	6.3	1.6	.0	59	.0	13.8
-2	.0	.9	2.3	4.9	.5	.0	37	.0	8.6
-3	.0	1.2	4.0	4.7	.2	.0	43	.0	10.0
-4	.2	1.5	2.8	3.3	.2	.0	30	.0	7.0
-5	.0	.9	3.7	1.2	.0	.0	25	.0	5.8
-6	.0	.7	3.3	1.6	.0	.0	24	.0	5.6
-7/-8	.2	1.6	.5	.0	.0	.0	10	.0	2.3
-9/-10	.2	.5	.2	.0	.0	.0	4	.0	.9
-11/-13	.2	.3	1.2	1.4	.6	.2	429	.0	125
TOTAL	.7	7.7	29.8	40.6	14.5	4.9	100.0		99.1
PCT									

OCTOBER  
 TABLE 1B  
 AREA 0024 N. W. PERSIAN GULF  
 27.4N 50.0E

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

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

HGT	N				NE				48+	PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT			
<1	.7	6.5	.6	.0	.0	.0	.0	.0	.0	7.8
1-2	.0	2.0	.7	.0	.0	.0	.0	.0	.0	2.8
3-4	.0	.6	3.3	.0	.0	.0	.0	.0	.0	3.9
5-6	.0	.0	.7	.0	.0	.0	.0	.0	.0	.7
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.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
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	9.1	5.4	.0	.0	.0	1.7	.0	.0	10.4

HGT	E				SE				48+	PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT			
<1	.7	8.9	.0	.0	.0	.0	.0	.0	.0	8.3
1-2	.0	1.5	.0	.0	.0	.0	.0	.0	.0	6.9
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.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
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	11.1	.0	.0	.0	.0	1.5	.0	.0	15.2

OCTOBER  
TABLE 18  
AREA 0024 N. W. PERSIAN GULF  
27.4N 50.0E

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

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

HGT	S					TOT PCT
	1-3	4-10	11-21	22-33	34-47	
<1	.7	5.9	.0	.0	.0	7.6
1-2	.0	5.0	.7	.0	.0	5.7
3-4	.7	.0	.0	.0	.0	0.7
5-6	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0
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
TOT PCT	1.5	10.9	.7	.0	.0	13.1

HGT	NW					TOT PCT
	1-3	4-10	11-21	22-33	34-47	
<1	.0	5.7	.0	.0	.0	5.7
1-2	.0	3.1	1.9	.0	.0	3.1
3-4	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	7.0	1.9	.0	.0	8.9

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

OCTOBER

AREA 0024 N. W. PERSIAN GULF  
27.4N 50.0E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOT OBS
	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50+	
<1	7.9	23.6	17	.0	.0	.0	.0	.0	.0	.0	62.1
1-2	.7	19.3	6.4	.0	.0	.0	.0	.0	.0	.0	26.4
3-4	.0	2.1	7.1	.0	.0	.0	.0	.0	.0	.0	10.0
5-6	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	1.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	9.3	75.0	15.7	.0	.0	.0	.0	.0	.0	.0	100.0

TABLE 19  
PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)										TOTAL	MEAN HGT											
	<1	1-2	2-4	5-6	7	8-9	10-11	12	13-16	17-19			20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+		
<1	23.3	38.0	11.6	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	255	2	
1-2	.0	.3	1.9	1.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	4
2-4	.0	.3	.3	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5
4-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
6-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDET	16.1	3.6	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	76
TOTAL	149	152	55	10	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	261	1
PCT	53.3	42.1	15.2	2.8	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0



NOVEMBER

AREA 0024 N. W. PERSIAN GULF  
27.5N 50.2E

PERIOD (PRIMARY: 1950-1970)  
(OVER-ALL) 1910-1970

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE				HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS												
				FRZG PCPN	SNOW	OTHER FRZN PCPN	BLWG					SMOKE	DUST	NO	HAZE	BLWG		DUST	SIG	WEA									
N	.1	.0	.3	.0	.0	.0	.0	.0	.4	1	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22.3	B4			
NE	.4	.0	.0	.0	.0	.0	.0	.0	.4	1	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.8	27	
E	.1	.0	.0	.0	.0	.0	.0	.0	.1	2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	17
SE	.4	.0	.0	.0	.0	.0	.0	.0	.7	2	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.2	21
S	.1	.0	.0	.0	.0	.0	.0	.0	.1	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	14
SW	.1	.0	.0	.0	.0	.0	.0	.0	.1	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	11
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	17
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35.7	154
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.4	27
TOT OBS	5	1	1	1	0	0	0	0	1.9	7	5	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	349	566	
TOT PCT	1.4	.3	.3	.0	.0	.0	.0	.0	1.9	7	1.4	.3	.1	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	95.4	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	ORZL	PRECIPITATION TYPE				HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS												
				FRZG PCPN	SNOW	OTHER FRZN PCPN	BLWG					SMOKE	DUST	NO	HAZE	BLWG		DUST	SIG	WEA									
0603	1.0	1.0	1.0	.0	.0	.0	.0	.0	2.1	2	1.5	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	95.9	97
0609	3.2	.0	1.1	.0	.0	.0	.0	.0	2.3	5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	90.7	91
1215	1.1	.0	.0	.0	.0	.0	.0	.0	1.1	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	97.9	95
1821	1.0	.0	.0	.0	.0	.0	.0	.0	1.0	1	4.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	91.9	99
TOT	5	1	1	0	0	0	0	0	5.5	7	5	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	565	582	
PCT	1.3	.3	.5	.0	.0	.0	.0	.0	1.8	7	1.3	.8	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	95.5	100.0

PERIOD: (PRIMARY) 1950-1970  
(OVER-ALL: 1910-1970)

NOVEMBER

AREA 0024 N. W. PERSIAN GULF  
27.3N 50.2E

TABLE 3  
PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPO	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	1.5	11.3	7.5	.8	.0	.0	91	21.7	10.5	23.4	8.3	21.3	21.4	24.5	.0	18.3	3.2
NE	1.9	4.6	1.5	.2	.0	.0	34	8.3	8.1	5.2	8.3	10.4	14.3	6.1	5.0	7.8	23.3
E	1.5	3.4	1.9	.0	.0	.0	20	4.8	7.0	5.8	.0	3.0	.0	4.7	15.0	6.4	6.7
SE	1.5	4.2	3.8	.2	.0	.0	41	9.7	9.8	7.4	8.3	4.4	28.2	11.5	40.0	10.0	6.7
S	.8	2.3	1.5	.0	.0	.0	19	4.6	8.4	2.2	8.3	3.3	11.9	4.4	10.0	4.7	13.3
SW	1.1	1.9	1.4	.0	.0	.0	14	3.3	5.7	3.8	.0	4.7	2.4	3.9	10.0	1.4	.0
W	1.0	3.1	1.0	.0	.0	.0	21	5.2	7.6	9.3	10.7	7.4	.0	1.5	.0	2.5	11.7
NW	1.2	20.2	12.5	1.1	.0	.0	147	35.1	10.5	35.2	23.3	32.7	21.4	39.5	20.0	38.9	21.7
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALC	7.4	21.7	12.3	1.0	.0	.0	31	7.4	8.9	7.7	10.7	8.6	.0	3.9	.0	10.0	13.3
TOT OBS	71	217	123	10	0	10	421	100.0	8.9	91	6	91	21	102	5	90	13
TOT PCT	16.9	51.5	29.2	2.4	.0	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPO	HOUR (GMT)							
	0-6	7-15	17-27	28-40	41+	41+				00	03	06	09	12	15	18	21
N	5.9	12.2	3.1	.4	.0	.0	91	21.7	10.5	22.4	22.4	24.6	23.4	16.2			
NE	3.8	3.6	.8	.0	.0	.0	34	8.3	8.1	5.4	5.4	11.2	6.1	20.0			
E	3.5	1.5	.0	.0	.0	.0	20	4.8	7.0	5.4	2.5	5.1	6.4				
SE	3.3	4.9	1.5	.0	.0	.0	41	9.7	9.8	7.5	8.9	12.9	9.5				
S	2.3	1.7	.6	.0	.0	.0	19	4.5	8.4	2.8	4.9	4.7	6.0				
SW	2.3	1.0	.0	.0	.0	.0	14	3.3	5.7	3.6	4.2	4.2	1.2				
W	3.0	1.4	.8	.0	.0	.0	21	5.2	7.6	9.8	6.0	1.4	3.8				
NW	8.5	21.3	4.9	.4	.0	.0	147	35.1	10.5	35.1	30.6	38.6	36.4				
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0				
CALC	7.4	20.1	11.9	3	.0	.0	31	7.4	8.9	8.2	7.1	9.7	10.5				
TOT OBS	167	47.7	11.9	.7	.0	.0	421	100.0	8.9	97	112	107	105				
TOT PCT	39.7	11.9	.7	.0	.0	.0	100.0			100.0	100.0	100.0	100.0				

NOVEMBER

PERIOD: (PRIMARY) 1950-1970  
(OVERALL) 1910-1970

APEA 0024 N. W. PERSIAN GULF  
27.3N 50.2E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

HOUR	CALM	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33			
0000	8.2	5.2	53.6	27.6	5.2	9.3	100.0	97
0200	7.1	8.9	50.0	33.0	7.9	9.1	100.0	112
0400	8.7	12.1	46.7	33.6	8.7	9.9	100.0	107
0600	10.5	11.4	56.2	21.9	10.5	7.2	100.0	105
0800	9.1	10.0	50.0	23.0	9.1	8.9	100.0	105
1000	7.4	9.5	51.5	29.2	7.4	8.9	100.0	421

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & 9	10-14	15-17	18-25	26-33	34-47	48+	MEAN CLOUD COVER	TOTAL OBS
N	16.0	1.9	4.5	1.4	80	2.0	0	0	0	0	2.0	80
NE	3.6	1.0	1.9	1.2	23	3.3	0	0	0	0	3.3	23
E	2.4	1.6	1.3	1.1	15	2.3	0	0	0	0	2.3	15
SE	3.6	1.9	2.2	1.7	27	3.1	0	0	0	0	3.1	27
S	2.0	1.8	1.3	1.0	10	1.8	0	0	0	0	1.8	10
SW	2.2	1.4	1.3	1.0	9	1.6	0	0	0	0	1.6	9
W	4.3	1.2	1.1	1.0	16	1.0	0	0	0	0	1.0	16
NW	29.7	3.3	4.3	1.4	127	1.3	0	0	0	0	1.3	127
VAR	0	0	0	0	0	0	0	0	0	0	0	0
CALM	5.9	1.6	1.6	1.2	25	1.2	0	0	0	0	1.2	25
TOT OBS	235	35	53	14	337	1.9	0	0	0	0	1.9	337
TOT PCT	69.7	10.4	15.7	4.2	100.0	1.9	0	0	0	0	1.9	100.0

TABLE 6

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

WIND DIR	0-2	3-4	5-7	8 & 9	10-14	15-17	18-25	26-33	34-47	48+	MEAN	TOTAL OBS
N	16.0	1.9	4.5	1.4	80	2.0	0	0	0	0	2.0	80
NE	3.6	1.0	1.9	1.2	23	3.3	0	0	0	0	3.3	23
E	2.4	1.6	1.3	1.1	15	2.3	0	0	0	0	2.3	15
SE	3.6	1.9	2.2	1.7	27	3.1	0	0	0	0	3.1	27
S	2.0	1.8	1.3	1.0	10	1.8	0	0	0	0	1.8	10
SW	2.2	1.4	1.3	1.0	9	1.6	0	0	0	0	1.6	9
W	4.3	1.2	1.1	1.0	16	1.0	0	0	0	0	1.0	16
NW	29.7	3.3	4.3	1.4	127	1.3	0	0	0	0	1.3	127
VAR	0	0	0	0	0	0	0	0	0	0	0	0
CALM	5.9	1.6	1.6	1.2	25	1.2	0	0	0	0	1.2	25
TOT OBS	235	35	53	14	337	1.9	0	0	0	0	1.9	337
TOT PCT	69.7	10.4	15.7	4.2	100.0	1.9	0	0	0	0	1.9	100.0

PERIOD: (PRIMARY) 1950-1970  
(OVER-ALL) 1910-1970

NOVEMBER

AREA 0024 N. W. PERSIAN GULF  
27.3N 50.2E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VS8Y (NH)

CEILING (FEET)	OR		OR		OR		OR		ER
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0	
OR >6500	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
OR >5000	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
OR >3500	2.6	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
OR >2000	3.7	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
OR >1000	6.3	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
OR >500	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
OR >300	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
OR >150	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
OR >10	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
TOTAL	23	30	30	30	30	30	30	30	30

TOTAL NUMBER OF OBS: 347

PCT FREQ NH <5/8: 91.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL
	65.7	10.3	6.4	6.1	1.7	3.6	3.6	1.1	1.4	0.0	361

PERIOD: (PRIMARY) 1950-1970  
(COVER-ALL) 1910-1970

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AREA 0024 N. W. PERSIAN GULF  
27.3IN 50.2E

TABLE B

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

USBY (NH)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3
TOT %	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCP	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3
PCP	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3
NO PCP	.0	.0	.0	.0	.1	.1	.0	.3	.0	.0	.5	.5
TOT %	.0	.3	.0	.0	.1	.1	.0	.3	.0	.0	.8	.8
PCP	.3	.0	.1	.4	.0	.0	.0	.0	.0	.0	.8	.8
NO PCP	2.9	.6	.2	.8	.5	.0	1.6	10.5	.0	.3	17.5	17.5
TOT %	3.2	.6	.3	1.2	.5	.0	1.6	10.5	.0	.3	18.3	18.3
PCP	.0	.0	.0	.3	.1	.1	.0	.0	.0	.0	.5	.5
NO PCP	19.5	5.4	4.5	7.4	3.1	2.9	3.1	25.9	.0	7.1	79.8	79.8
TOT %	19.5	5.4	4.5	7.4	3.3	3.0	3.1	25.9	.0	7.1	80.3	80.3
TOT OBS	23.0	7.6	4.8	8.7	4.0	3.1	4.7	36.7	.0	7.4	100.0	366

PERIOD: (PRIMARY) 1950-1970  
(OVER-ALL) 1910-1970

NOVEMBER

AREA 0024 N. W. PERSIAN GULF  
27.3N 50.2E

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.2	.0	.0	.1	.4	.0	.0	.0	.0	.7	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.2	.0	.0	.1	.4	.0	.0	.0	.0	.0	1.0	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	1.6	.2	.1	.4	.5	.0	1.0	5.1	.0	.2	9.8	.5
	11-21	1.4	.3	.2	1.0	.0	.0	.2	3.4	.0	.0	6.5	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	3.1	.5	.3	1.3	.5	.0	.0	8.5	.0	.2	16.8	.5	
10+	0-3	1.0	1.9	.5	1.5	.8	1.1	.8	1.0	.0	7.2	16.2	.0
	4-10	9.7	4.3	3.4	3.9	1.8	1.9	2.1	14.0	.0	41.0	91.0	.0
	11-21	5.1	.8	.7	2.9	1.4	.0	.0	9.2	.0	22.1	41.0	.0
	22+	.8	.2	.0	.2	.0	.0	.0	1.1	.0	2.4	4.7	.0
TOT %	18.6	7.3	4.6	8.5	4.0	3.0	3.7	25.4	.0	7.2	81.8	.0	
TOT OBS		21.4	8.3	4.5	9.8	4.6	3.4	5.1	35.1	.0	7.4	100.0	17
TOT PCT													

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PERIOD: (PRIMARY) 1950-1970  
(OVER-ALL) 1910-1970

AREA 0024 N. W. PERSIAN GULF  
27.3N 50.2E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 478) AND OCCURRENCE OF NH < 578 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL NH < 578 ANY HGT	TOTAL NH < 578 OBS
0000	149	299	599	999	1999	3499	4999	6499	7999			
0000	.0	.0	.0	.0	2.3	2.3	1.1	1.1	1.1	1.1	8.0	87
0609	.0	.0	.0	.0	3.4	2.3	1.1	1.1	1.1	1.1	9.1	88
1215	.0	.0	.0	1.1	5.3	4.3	3.2	1.1	.0	.0	14.9	94
1821	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	1.1	87
TOT	0	0	0	2	10	8	5	1	2	2	30	356
PCT	.0	.0	.0	.6	2.8	2.2	1.4	.3	.6	.6	8.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	< 1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
0000	.0	.0	.0	.0	20.2	79.8	84
0609	.0	.0	.0	.0	15.5	84.5	84
1215	.0	.0	.0	1.1	15.1	93.9	93
1821	.0	.0	.0	1.2	19.8	79.1	86
TOT	0	0	0	2	61	284	347
PCT	.0	.0	.0	.6	17.6	81.8	100.0

TABLE 12

SUMMATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH > 478) BY HOUR

HOUR (GMT)	< 150 CEILING	< 150 < 1000 CEILING	< 1000 < 1000+ NH	< 1000+ NH < 578	TOTAL OBS
0000	.0	.0	.0	8.3	84
0609	.0	.0	.0	9.5	84
1215	.0	.0	2.2	14.0	93
1821	.0	.0	2.3	.0	86
TOT	0	0	4	28	347
PCT	.0	.0	1.2	8.1	100.0

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PERIOD: (PRIMARY) 1950-1970  
(OVER-ALL) 1910-1970

AREA 0024 N.W. PERSIAN GULF  
27.3N 50.2E

TABLE 15

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL DBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	CALM			
90/94	.0	.0	.3	1.0	1.0	.0	.0	.0	.0	.0	7	2.4
85/89	.0	.0	1.4	2.4	2.0	2.0	.7	.0	.0	.0	25	8.5
80/84	.0	.3	1.4	6.8	11.5	3.4	3.4	2.0	.0	.0	94	31.9
75/79	.0	.0	2.7	5.4	4.7	7.5	4.4	1.7	.0	.0	77	26.1
70/74	.0	.0	1.4	2.4	5.1	3.7	7.1	5.8	.0	.0	75	25.4
65/69	.0	.0	.0	1.4	.7	1.0	1.0	1.7	.0	.0	17	5.8
TOTAL	.0	.1	2.0	5.7	7.4	6.1	4.9	3.3	.0	.0	295	100.0
PCT	.0	.3	6.8	19.3	25.1	20.7	16.6	11.2	.0	.0		

TABLE 14

TEMP F	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										TOTAL DBS
	N	NE	E	SE	S	SW	W	NW	VAR	CALM	
90/94	.7	.0	.0	.1	.3	.3	.0	.0	.0	.0	1.0
85/89	2.1	.4	.7	1.7	.7	.0	.3	2.5	.0	.0	3.1
80/84	8.6	2.9	1.1	3.1	.7	1.4	1.0	10.0	.0	.0	2.4
75/79	5.1	2.5	1.1	1.8	.9	.2	1.2	11.0	.0	.0	1.0
70/74	5.3	1.4	1.3	1.5	1.9	.3	1.5	12.1	.0	.0	.2
65/69	1.3	.3	.0	.0	.0	.0	.3	3.0	.0	.0	.3
TOTAL	68	22	9	24	13	6	14	11.4	.0	.0	23
PCT	23.1	7.5	3.2	8.2	4.4	2.3	4.9	36.6	.0	.0	7.8

TABLE 15

HOUR (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL DBS
	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS		
00003	84	83	82	77	67	65	65	75.9	101		
06009	92	91	87	78	70	66	66	78.3	114		
12015	93	91	85	81	71	66	66	80.1	107		
18021	92	86	85	76	70	68	68	76.7	122		
TOT	93	91	85	78	69	66	65	77.8	434		

TABLE 16

HOUR (GMT)	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL DBS
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS	
00003	.0	23.4	19.4	26.0	16.9	16.9	16.9	16.9	73	77	
06009	.0	23.4	27.3	20.8	13.6	13.6	13.6	13.6	71	77	
12015	.0	35.2	26.8	22.5	14.1	14.1	14.1	14.1	66	71	
18021	.0	25.3	27.7	16.9	18.1	18.1	12.0	12.0	70	83	
TOT	0	82	76	66	50	50	34	34	70	308	



PERIOD: (PRIMARY) 1950-1970  
 (OVER-ALL) 1910-1970

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AREA 0024 N. W. PERSIAN GULF  
 27.3N 50.2E

TABLE 17

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

AIR-SEA TMP DIFF	55	59	63	67	71	75	79	83	87	91	95	TOT	W FOG	MD FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.7
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.0	1.7
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	.0	2.7
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	1.0
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.3
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	1.0
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	.0	2.0
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	.0	3.0
2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	.0	6.0
1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	.0	6.4
0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	.0	11.1
-1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	.0	8.4
-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	.0	10.7
-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	.0	10.7
-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	.0	9.1
-5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	.0	7.7
-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	.0	7.0
-7/-8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	.0	5.4
-9/-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	.0	3.4
-11/-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.7
TOTAL	10	47	65	80	66	21	8	2.7	1	1	298	3	295	
PCT	3.4	15.8	21.8	26.8	22.1	7.0	2.7	.3	.1	.3	100.0	1.0	99.0	

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TABLE 18  
AREA 0034 N. W. PERSIAN GULF  
27-31 50.2E

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

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

HGT	N										TOT PCT			
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21		22-33	34-47	48+
<1	.0	7.3	.0	.0	.0	.0	7.5	1.2	.0	.0	.0	.0	.0	1.2
1-2	.0	1.7	1.2	.0	.0	.0	2.9	.0	3.8	.0	.0	.0	.0	.0
3-4	.0	2.3	5.2	.0	.0	.0	7.6	.0	.0	1.5	.0	.0	.0	5.2
5-6	.0	.0	2.0	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.9	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	11.3	9.3	.5	.0	.0	21.5	1.2	3.8	1.5	.0	.0	.0	6.4

HGT	E										TOT PCT			
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21		22-33	34-47	48+
<1	.0	1.2	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0
1-2	1.2	1.2	.9	.0	.0	.0	3.2	.0	.0	1.2	.0	.0	.0	1.2
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	2.3	.9	.0	.0	.0	4.4	.0	.0	1.2	.0	.0	.0	1.2

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

HGT	S					PCT	48+	SW					PCT
	1-3	4-10	11-21	22-33	34-47			1-3	4-10	11-21	22-33	34-47	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	2.3
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.2	.0	.0	.0	1.2	.0	2.6	.0	.0	.0	2.6	.0

HGT	NW					PCT	48+	SW					PCT
	1-3	4-10	11-21	22-33	34-47			1-3	4-10	11-21	22-33	34-47	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	5.8	.0	.0	.0	5.8	.0	.0	.0	.0	.0	.0	29.9
3-4	.0	.9	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	4.9
5-6	.9	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	14.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	6.7	1.2	.0	.0	6.7	.0	38.4	1.0	1.5	.0	34.1	.0

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

NOVEMBER

AREA 0024 N. W. PERSIAN GULF  
27.3N 50.2E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT				
<1	6.5	81.3	.0	.0	.0	.0	47.8				
1-2	1.1	13.0	6.5	.0	.0	.0	20.7				
3-4	1.0	7.6	13.0	1.1	.0	.0	21.7				
5-6	2.2	.0	3.3	.0	.0	.0	5.4				
7	.0	.0	3.3	1.1	.0	.0	4.3				
8-9	.0	.0	.0	.0	.0	.0	.0				
10-11	.0	.0	.0	.0	.0	.0	.0				
12	.0	.0	.0	.0	.0	.0	.0				
13-16	.0	.0	.0	.0	.0	.0	.0				
17-19	.0	.0	.0	.0	.0	.0	.0				
20-22	.0	.0	.0	.0	.0	.0	.0				
23-25	.0	.0	.0	.0	.0	.0	.0				
26-32	.0	.0	.0	.0	.0	.0	.0				
33-40	.0	.0	.0	.0	.0	.0	.0				
41-48	.0	.0	.0	.0	.0	.0	.0				
49-60	.0	.0	.0	.0	.0	.0	.0				
61-70	.0	.0	.0	.0	.0	.0	.0				
71-86	.0	.0	.0	.0	.0	.0	.0				
87+	.0	.0	.0	.0	.0	.0	.0				
TOT PCT	9.8	52.0	26.1	2.2	.0	.0	100.0				92

TABLE 19

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

PERIOD (SEC)	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)										TOTAL	MEAN HGT											
	<1	1-2	3-4	5-6	7	8-9	10	11	12	13-16			17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	
<1	18.4	16.2	16.7	3.8	2.1	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	133	2
1-2	.4	.0	3.0	5.1	2.6	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	5
3-4	.0	.0	1.7	1.3	.9	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	5
5-6	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	1
7-9	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	10
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
14-15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
INDET	11.5	9.8	2.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	57	1
TOTAL	71	63	56	26	13	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	234	2
PCT	30.3	26.9	23.9	11.1	5.6	1.3	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	0

DECEMBER  
 ARE/ 0024 N. W. PERSIAN GULF  
 26.49N 50.2E

PERIOD: (PRIMARY) 1952-1969  
 (OVER-ALL) 1910-1969

TABLE 1  
 PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHR	RAIN SHR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA						TOTAL OBS
				FRZG PCPN	FRZG PCPN	SNOW PCPN					FOG NO	SMOKE NO	HAZE	BLWG	DUST	NO SIG	
N	.2	.2	.1	.0	.0	.0	.0	.5	3	.2	.1	.2	.0	.1	13.7	95	
NE	.1	.2	.1	.0	.0	.0	.0	.4	2	.2	.0	.0	.0	.0	2.8	29	
E	.2	.1	.0	.0	.0	.0	.0	.2	1	.0	.0	.0	.0	.0	3.7	25	
SE	.1	.1	.0	.0	.0	.0	.0	.2	1	.2	.0	.0	.0	.0	6.3	55	
S	.2	.1	.0	.0	.0	.0	.0	.3	2	.0	.1	.0	.0	.0	7.8	53	
SW	.2	.0	.0	.0	.0	.0	.0	.1	1	.0	.1	.0	.0	.0	3.6	25	
W	.0	.0	.1	.0	.0	.0	.0	.1	0	.0	.5	.2	.0	.5	9.6	71	
NW	.5	.0	.0	.0	.0	.0	.0	.5	3	.5	.1	.1	.0	1.7	32.5	228	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.2	.0	.0	9.4	62	
TOT OBS	1.4	1.4	2	0	0	0	0	2.3	15	.6	1.7	.4	.0	15	399	646	
TOT PCT	1.4	.6	.3	.0	.0	.0	.0	2.3	15	.9	1.1	.6	.0	2.3	92.7	100.0	

TABLE 2  
 PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (G+T)	RAIN SHR	RAIN SHR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA						TOTAL OBS
				FRZG PCPN	FRZG PCPN	SNOW PCPN					FOG NO	SMOKE NO	HAZE	BLWG	DUST	NO SIG	
0003	2.3	.0	.0	.0	.0	.0	.0	2.3	3	.8	1.5	.0	.0	2.3	92.2	122	
0609	.5	.6	.0	.0	.0	.0	.0	1.2	2	.0	1.8	.6	.0	2.9	92.5	170	
1215	1.1	1.1	.5	.0	.0	.0	.0	2.7	5	.0	1.1	1.6	.0	2.2	92.5	186	
1821	1.8	.4	1.2	.0	.0	.0	.0	3.6	6	2.0	.0	.0	.0	1.8	91.7	168	
TOT	9	4	3	0	0	0	0	16	16	.6	7	4	.0	15	606	656	
PCT	1.4	.6	.5	.0	.0	.0	.0	2.4	16	.9	1.1	.6	.0	2.3	92.7	100.0	

DECEMBER

PERIOD: (PRIMARY) 1952-1969  
(COVER-ALL) 1910-1969

AREA: 0024 N. K. PERSIAN GULF  
26.9N 50.3E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)								HOUR (GMT)								
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL DBS	PCT FREQ	MEAN SPO	00	03	06	09	12	15	18	21
N	1.8	5.8	6.4	.5	.1	.0	109	15.6	10.5	16.7	.0	11.4	28.8	18.0	18.8	15.1	22.7
NE	.9	3.3	.5	.0	.0	.0	32	4.7	6.0	3.7	33.3	2.5	7.7	5.9	25.0	4.8	9.1
E	.9	2.5	.6	.0	.0	.0	28	4.1	6.4	2.6	.0	3.0	.0	3.2	.0	6.6	22.7
SE	.4	5.1	2.8	.4	.0	.0	61	8.7	10.3	7.9	.0	7.0	7.7	8.8	.0	11.0	4.5
S	.8	5.6	1.8	.1	.0	.0	58	8.3	8.1	9.2	33.3	10.9	15.4	8.6	.0	4.4	.0
SW	.4	3.1	.6	.0	.0	.0	28	4.1	7.2	3.9	33.3	7.6	11.5	2.4	.0	1.5	4.5
W	1.0	6.3	3.1	.3	.0	.0	75	10.7	9.4	15.3	.0	16.1	11.5	5.9	25.0	9.9	4.5
NW	2.0	11.5	19.0	2.4	.0	.0	246	35.1	12.6	30.5	.0	34.0	17.3	40.2	31.3	36.4	31.8
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.8	.0	244	27	.1	.0	62	8.8	.0	10.3	.0	6.8	.0	7.0	.0	13.5	.0
TOT DBS	119	311	348	3.8	.1	.0	702	100.0	9.4	136	3	177	13	157	4	171	11
TOT PCT	17.0	44.3	34.8	.5	.1	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										4+	TOTAL DBS	PCT FREQ	MEAN SPO	HOUR (GMT)					
	0-6	7-16	17-27	28-40	41+	00	03	06	09	12					15	18	21			
N	5.2	7.8	2.5	.1	.0	109	15.6	10.5	16.4	12.6	18.1	15.5	15.5	15.5	15.5	15.5	15.5			
NE	3.1	1.6	.0	.0	.0	32	4.7	6.0	4.5	2.9	4.3	5.1	5.1	5.1	5.1	5.1	5.1			
E	2.4	1.5	.1	.0	.0	28	4.1	6.4	2.5	2.8	3.1	7.6	7.6	7.6	7.6	7.6	7.6			
SE	3.7	4.7	1.6	.0	.0	61	8.7	10.3	7.7	7.5	8.6	10.6	10.6	10.6	10.6	10.6	10.6			
S	3.7	4.2	.4	.0	.0	58	8.3	8.1	9.7	11.2	8.4	4.1	4.1	4.1	4.1	4.1	4.1			
SW	2.1	1.9	.1	.0	.0	28	4.1	7.2	4.5	7.9	2.4	1.6	1.6	1.6	1.6	1.6	1.6			
W	4.3	5.1	1.4	.0	.0	75	10.7	9.4	14.9	15.8	6.3	6.7	6.7	6.7	6.7	6.7	6.7			
NW	5.2	22.3	6.9	.6	.0	246	35.1	12.6	29.9	32.9	40.1	36.1	36.1	36.1	36.1	36.1	36.1			
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CALM	8.8	.0	244	27	.1	62	8.8	.0	10.3	.0	6.8	.0	7.0	.0	13.5	.0	.0			
TOT DBS	261	345	91	5	0	702	100.0	9.4	139	190	191	182	182	182	182	182	182			
TOT PCT	37.2	49.1	13.0	.7	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0			

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

HOUR	WIND SPEED (KNOTS)				PCT		TOTAL OBS
	1-3	4-10	11-21	22-33	34-47	48+	
0600	10.1	7.2	53.2	26.6	2.9	.0	137
0609	6.3	7.4	45.3	35.3	5.3	.0	190
1215	6.3	9.3	40.3	39.3	3.7	.0	191
1821	12.6	7.7	40.7	35.7	3.3	.0	182
TOT	62	57	311	244	27	1	702
PCT	8.8	8.1	44.3	34.8	3.8	.1	100.0

TABLE 5

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

WIND DIR	PCT FREQ								TOTAL OBS	MEAN CLOUD COVER	
	0-2	3-4	5-7	8-6	000	149	299	599			
N	9.6	1.7	2.5	.6	.1	.0	.0	.0	.1	89	1.0
E	2.0	1.1	1.2	.4	.1	.0	.0	.0	.1	28	3.4
SE	2.1	1.2	1.2	.4	.0	.0	.0	.0	.0	24	3.2
S	4.7	1.6	1.9	.8	.0	.0	.0	.0	.0	55	2.8
SW	2.9	1.4	1.9	1.9	.1	.0	.0	.0	.0	50	4.1
W	2.5	.5	.4	.3	.0	.0	.0	.0	.0	24	2.4
NH	7.5	1.2	1.3	.8	.1	.0	.1	.0	.1	67	2.0
VAR	25.9	3.2	5.1	2.1	.4	.2	.1	.1	.4	218	2.1
CALC	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	1.0
TOT OBS	7.1	1.5	.8	.5	.0	.0	.0	.0	.0	61	1.7
TOT PCT	386	176	107	50	5	1	1	4	13	619	2.4
TOT	62.4	12.3	17.3	8.1	.8	.2	.2	.6	2.1	100.0	

TABLE 6

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

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8										TOTAL OBS	ANY HGT <5/8	TOTAL OBS
	000	149	299	599	999	1000	1999	3499	4999	6499			
N	.1	.0	.0	.0	.0	.2	.2	.9	.2	.2	.0	.0	89
E	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	55
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	50
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24
NH	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	67
VAR	.4	.2	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	218
CALC	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOT OBS	5	1	1	4	10	5	10	5	10	5	5	5	619
TOT PCT	.8	.2	.2	.6	2.1	1.6	2.1	4.7	2.1	1.6	.8	.8	100.0

PERIOD: (PRIMARY) 1952-1964  
(OVER-ALL) 1910-1969

DECEMBER

AREA 0024 N. W. PERSIAN GULF  
26.9N 50.3E

TABLE 7  
CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH > 478) AND VSBY (NM)

CEILING (FEET)	OR		OR		OR		OR		OR	
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>10	>50	>30
OR >6500	1.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
OR >5000	2.2	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
OR >3500	4.2	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
OR >2000	7.2	10.1	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
OR >1000	9.0	12.2	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
OR >600	9.6	12.6	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
OR >300	9.8	13.0	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
OR >150	9.9	13.1	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
OR > 0	9.9	13.1	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
TOTAL	62	112	84	84	86	87	87	87	87	88

TOTAL NUMBER OF OBS: 625 PCT FREQ NH < 578: 85.9

TABLE 7A  
PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL
	59.9	9.8	7.4	4.8	2.9	3.3	4.8	2.5	3.4	1.2
										646



AREA 0024 N. W. PERSIAN GULF  
25.9N 50.3E

DECEMBER

PERIOD: (PRIMARY) 1952-1969  
(OVER-ALL) 1910-1969

TABLE 8  
PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR 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	.1	.4	.3	.0	.0	.0	.9
	TOT %	.0	.0	.0	.1	.1	.4	.3	.0	.0	.0	.9
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.3	.7	.0	.0	.0	.9
	TOT %	.0	.0	.0	.0	.0	.3	.7	.0	.0	.0	.9
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.2	.0	.0	.0	.0	.0	.1	.0	.0	.0	.3
	TOT %	.2	.0	.0	.0	.0	.0	.1	.0	.0	.0	.3
2<5	PCP	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.3
	NO PCP	.2	.3	.0	.0	.0	.2	.2	.0	.0	.0	.8
	TOT %	.3	.3	.1	.0	.0	.2	.2	.0	.0	.0	1.1
5<10	PCP	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2
	NO PCP	3.4	1.2	1.5	3.0	1.9	2.0	5.3	10.6	2.9	31.7	32.0
	TOT %	3.5	1.2	1.7	3.0	1.9	2.0	5.3	10.6	2.9	32.0	32.0
10+	PCP	.2	.2	.0	.2	.3	.2	.1	.5	.0	.0	1.7
	NO PCP	10.5	2.8	2.2	5.4	6.0	1.7	4.8	23.1	6.7	63.0	64.7
	TOT %	10.8	3.0	2.2	5.6	6.3	1.8	4.9	23.6	6.7	64.7	64.7
TOT OBS	14.8	4.5	3.9	8.6	8.2	3.9	11.0	35.4	9.6	100.0	646	

PERIOD: (PRIMARY) 1952-1969  
(OVER-ALL) 1910-1969

DECEMBER

AREA 0024 N. W. PERSIAN GULF  
25.9N 50.3E

TABLE 9

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

VSBY (M)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL CBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.1	.1	.3	.1	.0	.0	.6	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0	.3	.0
TOT %	.0	.0	.0	.0	.1	.1	.4	.3	.0	.0	.9	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.3	.5	.0	.0	.7	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.0
TOT %	.0	.0	.0	.0	.0	.0	.3	.6	.0	.0	.9	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.2	.0	.0	.0	.0	.0	.0	.1	.0	.0	.3	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.2	.0	.0	.0	.0	.0	.0	.1	.0	.0	.3	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.2	.1	.1	.0	.0	.0	.1	.0	.0	.0	.6	.0
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
	22+	.1	.0	.0	.0	.0	.0	.0	.2	.0	.0	.3	.0
TOT %	.3	.3	.1	.0	.0	.0	.1	.2	.0	.0	.4	.0	
5<10	0-3	.1	.0	.6	.0	.0	.1	.3	.0	.0	.0	4.0	.0
	4-10	2.6	1.0	.8	2.0	1.6	1.4	3.2	4.1	.0	2.8	16.7	.0
	11-21	.7	.1	.3	1.0	.2	.3	1.5	5.4	.0	.0	9.5	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6	.0
TOT %	3.4	1.1	1.7	3.0	1.8	1.9	5.0	10.1	10.1	.0	2.8	30.8	.0
10+	0-3	1.7	.9	.3	.3	.9	.3	.7	2.0	.0	6.4	13.5	.0
	4-10	3.8	2.2	1.7	3.0	3.8	1.5	2.9	7.8	.0	6.4	25.7	.0
	11-21	5.2	.2	.3	1.8	1.6	.3	1.5	12.8	.0	.0	22.7	.0
	22+	.6	.0	.0	.4	.1	.0	.1	1.0	.0	.0	2.2	.0
TOT %	11.3	3.3	2.4	5.6	6.4	2.1	5.1	23.6	23.6	.0	6.4	65.1	.0
TOT OBS		15.1	4.7	4.1	8.5	8.3	4.1	11.0	34.9	.0	9.2	100.0	675
TOT PCT													

PERIOD: (PRIMARY) 1952-1969  
 (COVER-ALL) 1910-1969

DECEMBER

AREA 6324 N. W. PERSIAN GULF  
 25.9N 50.3E

TABLE 10  
 PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	959	1999	3499	4999	5999	7999				
00003	.3	.0	.0	.8	.6	5.4	.8	.8	.0	.0	9.3	90.7	129
06009	1.2	.6	.0	.6	3.1	5.5	2.5	2.5	1.8	1.2	19.0	81.0	102
12015	.0	.0	.0	1.1	3.3	3.9	2.8	1.7	1.1	1.7	16.0	84.0	181
18021	.0	.0	.6	.0	.6	3.7	1.8	2.5	.0	.0	9.8	90.2	102
TOT	1	1	1	4	13	29	13	12	5	5	88	548	636
PCT	.2	.2	.2	.6	2.0	4.6	2.0	1.9	.8	.8	13.8	86.2	100.0

TABLE 11

PERCENT FREQUENCY VS8Y (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.6	.8	.0	1.6	32.8	63.3	128
06009	1.3	.6	.6	1.3	30.8	65.4	159
12015	.0	1.1	.6	.6	30.9	66.9	181
18021	.0	1.2	.0	.0	33.5	65.2	161
TOT	4	6	2	5	201	411	629
PCT	.6	1.0	.3	.8	32.0	65.3	100.0

TABLE 12

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

HOUR (GMT)	<150 CEILING	<500m CEILING	<600 <1000	<1000 <1500	<1500 <2000	<2000 <2500	<2500 <3000	<3000 <3500	<3500 <4000	<4000 <4500	<4500 <5000	<5000 <5500	<5500 <6000	<6000 <6500	<6500 <7000	<7000 <7500	<7500 <8000	<8000 <8500	<8500 <9000	<9000 <9500	<9500 <10000	TOTAL OBS
00003	2.3	3.1	4.7	7.8	17.5	128																128
06009	1.9	2.5	5.0	17.0	159																	159
12015	1.1	1.1	3.3	17.0	181																	181
18021	.6	1.9	1.9	8.7	161																	161
TOT	9	13	23	76	629																	629
PCT	1.4	2.1	3.7	12.1	84.3	100.0																100.0

DECEMBER

AREA 0024, N. W., PERSIAN GULF  
26.5N 50.3E

PERIOD: (PRIMARY) 1922-1969  
(OVER-ALL) 1910-1969

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	90-100	90-100		
85/89	.0	.0	.0	.2	.4	.2	.2	.0	.0	.0	5	10.0
80/84	.0	.0	.0	.6	1.0	.8	2.2	.0	.0	.0	23	4.6
75/79	.0	.0	.0	.8	1.6	2.2	2.6	1.2	.0	.0	42	8.4
70/74	.0	.2	.4	2.6	5.6	8.8	6.0	4.2	.0	.0	139	27.7
65/69	.0	.0	1.2	3.4	7.5	6.4	10.4	10.2	.0	.0	181	36.1
60/64	.0	.0	.6	2.6	3.2	5.4	5.8	4.4	.0	.0	110	22.0
55/59	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	1	100.0
TOTAL	.0	1	11	51	81	119	136	101	.0	.0	501	100.0
PCT	.0	.2	2.2	10.2	16.0	23.8	27.1	20.2	.0	.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP												
	N	NE	E	SE	S	SW	W	NW	VAR	CALM		
	.4	.2	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0
	.9	.6	.3	.8	.0	.0	.3	1.1	.0	.0	.0	.2
	1.1	.5	.6	1.5	.1	.1	1.4	1.4	.0	.0	.0	.2
	4.5	1.2	1.1	2.3	2.3	2.8	9.2	.0	.0	.0	1.4	.4
	4.7	1.0	1.4	1.9	2.3	1.8	13.8	.0	.0	.0	4.2	.4
	3.9	.6	.4	.8	.0	.4	1.8	9.2	.0	.0	4.0	.0
	.1	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
	.75	.22	.20	.36	.23	.57	.75	.0	.0	.0	.50	.0
	15.0	4.4	4.1	7.6	7.2	4.6	11.4	35.0	.0	.0	10.0	.0

TABLE 15

HOUR (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL OBS
	MAX	99%	95%	90%	50%	5%	1%	MIN	MEAN	MEAN	
0000Z	77	75	73	66	60	60	59	66.6	134		
0600Z	81	75	78	69	61	60	60	69.0	184		
1200Z	88	87	84	71	61	60	60	71.1	171		
1800Z	81	74	73	68	62	60	60	67.9	182		
TOT	88	84	78	68	61	60	59	68.8	691		

TABLE 16

HOUR (GMT)	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL OBS
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	MEAN	
0000Z	.0	6.4	10.1	19.3	25.7	38.5	83	109			
0600Z	.0	12.5	12.5	28.1	31.3	15.6	77	128			
1200Z	.0	18.3	21.1	28.9	26.8	4.9	72	142			
1800Z	.0	10.8	20.0	24.6	24.6	24.6	77	130			
TOT	.0	6.3	8.3	12.4	13.8	10.1	77	509			

PERIOD: (PRIMARY) 1952-1969  
(OVER-ALL) 1910-1969

DECEMBER

AREA 0024 N. W. PERSIAN GULF  
26.9N 50.3E

TABLE 17  
PCT AREA OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57	61	65	69	73	77	81	85	TOT	H	HO
	60	64	68	72	76	80	84	88	FOG	FOG	FOG
14/16	.0	.0	.0	.0	.5	.0	.7	.7	5	.0	1.9
11/13	.0	.0	.0	1.0	.2	.7	1.4	.2	15	.0	3.6
9/10	.0	.0	.0	.2	.5	1.0	1.0	.0	10	.0	2.4
7/8	.0	.0	.2	.2	.5	1.4	.2	.0	11	.0	2.7
6	.0	.5	.2	.0	.5	.0	.0	.0	5	.0	1.2
5	.0	.0	.0	.2	2.4	.7	.0	.0	14	.0	3.4
4	.0	.0	.2	.2	2.9	.2	.2	.0	16	.0	3.9
3	.0	.5	1.0	.5	.2	.2	.0	.0	10	.0	2.4
2	.2	.2	.7	3.1	1.0	1.0	.0	.0	26	.0	6.3
1	.0	.0	.0	2.2	1.0	.0	.0	.0	29	.0	2.2
0	.2	.2	2.7	4.6	1.2	.5	.0	.0	39	.0	9.4
-1	.2	.2	1.4	3.9	1.9	.2	.0	.0	33	.2	7.7
-2	.0	1.0	4.6	4.1	1.2	.0	.0	.0	45	.7	10.1
-3	.0	.0	2.4	1.0	1.2	.0	.0	.0	20	.0	4.8
-4	.0	.0	3.6	2.9	1.5	.0	.0	.0	31	.2	7.2
-5	.2	1.0	2.4	3.6	1.0	.0	.0	.0	34	.2	8.0
-6	.2	1.0	1.2	1.2	.2	.0	.0	.0	16	.0	3.9
-7/-8	.2	4.1	2.2	2.4	.5	.0	.0	.0	42	.0	10.1
-9/-10	.2	2.7	2.2	.7	.0	.0	.0	.0	24	.0	5.8
-11/-12	.2	1.0	.0	.0	.0	.0	.0	.0	5	.0	1.2
-13/-14	.0	1.0	.0	.0	.0	.0	.0	.0	2	.0	.5
-14/-16	.8	1.6	10.7	13.2	6.7	2.5	1.5	.4	41.5	.6	40.9
TOTAL	1.9	13.2	25.6	32.0	16.1	6.0	3.5	1.0	100.0	1.4	98.6
PCT											

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1969

DECEMBER  
TABLE 18

AREA 0024 N. W. PERSIAN GULF  
26.9N 50.3E

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

HGT	N					NE					48+	PCT
	1-3	4-10	11-21	22-33	34-47	1-3	4-10	11-21	22-33	34-47		
<1	4.3	8.5	1.4	.0	.0	.5	5.7	.0	.0	.0	.0	6.2
1-2	.0	.5	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-6	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.3	.0	.4	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-85	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.3	8.9	2.3	.0	.4	.5	5.7	.0	.0	.0	.0	6.2

HGT	E					SE					48+	PCT
	1-3	4-10	11-21	22-33	34-47	1-3	4-10	11-21	22-33	34-47		
<1	1.0	3.6	.5	.0	.0	.0	8.4	1.0	.0	.0	.0	9.4
1-2	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-85	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	4.1	.5	.0	.0	.0	8.9	1.0	.0	.0	.0	9.5

DECEMBER  
TABLE 18

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1969

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

HGT	S				SW				PCT				
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10		11-21	22-33	34-47	48+
<1	.0	4.9	.0	.0	.0	.0	1.0	4.9	.0	.0	.0	.0	5.9
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.5	1.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.4	1.0	.0	.0	.0	1.0	6.4	.0	5.4	.0	.0	6.4

HGT	W				NW				PCT				
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10		11-21	22-33	34-47	48+
<1	1.6	10.9	1.4	.0	.0	.0	2.1	13.9	.0	14.3	.0	.0	19.7
1-2	.0	.0	2.1	.0	.0	.0	.0	2.1	.0	1.0	.0	.0	4.1
3-4	.0	.0	.0	.0	.0	.0	.0	.8	.8	2.6	.0	.0	5.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	1.5	.0	3.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	11.3	3.5	.0	.0	.0	2.1	16.8	.0	16.1	10.8	3.6	22.8





ANNUAL

AREA 0026 N. W. PERSIAN GULF  
37.2N 50.2E

PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1864-1971

TABLE 1  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				PCPN	FRZN	SNOW					FOG	SMOKE	DUST	NO SIG	
N	.1	*	*	*	.0	.0	.0	.1	6	*	.2	.5	.5	14.8	943
NE	.1	*	*	*	.0	.0	.0	.1	5	.1	*	.2	.1	7.5	350
E	*	*	*	*	.0	.0	.0	.1	3	.1	*	.4	.0	6.0	418
SE	.1	*	*	*	.0	.0	.0	.1	7	.1	.1	.4	.1	8.6	563
S	*	*	*	*	.0	.0	.0	.1	6	*	.1	.1	.1	3.5	295
SW	*	.0	*	*	.0	.0	.0	*	2	.0	.1	.2	.4	3.4	232
W	.1	*	*	*	.0	.0	.0	.1	5	*	.2	.5	.4	8.5	575
NW	.1	.0	*	*	.0	.0	.0	.1	8	.1	.9	1.4	1.8	30.8	2068
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.1	.4	.2	6.9	434
TOT OBS	30	.7	.8	.8	.0	.0	.0	.0	45	25	.99	235	178	530	5882
TOT PCT	.5	.1	.1	.1	.0	.0	.0	.8	1.7	.4	1.7	4.2	3.3	59.6	100.0

TABLE 2  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				PCPN	FRZN	SNOW					FOG	SMOKE	DUST	NO SIG	
0000	.5	.1	.1	.1	.0	.0	.0	.7	9	.8	1.0	3.0	2.9	91.6	1374
0600	1.0	.1	.2	.1	.0	.0	.0	1.2	18	.0	3.9	5.5	3.2	86.4	1513
1200	.2	.1	.1	.1	.0	.0	.0	.4	8	.0	.5	5.2	3.5	90.4	1625
1800	.4	*	.2	.2	.0	.0	.0	.7	11	.9	.9	3.0	3.4	91.1	1421
TOT	30	.7	.8	.8	.0	.0	.0	.8	46	25	102	242	184	5440	6039
PCT	.5	.1	.1	.1	.0	.0	.0	.8	1.7	.4	1.7	4.2	3.3	59.6	100.0

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PERIOD: (PRIMARY) 1948-1971  
(COVER-ALL) 1864-1971

AREA 0024 N. W. PERSIAN GULF  
27.52N 50.22E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)											
	0-3	4-10	11-21	22-33				34-47	48+	00	03	06	09	12	15	18	21		
N	1.3	3.1	5.6	.8	1039	15.9	10.5	14.3	14.3	14.4	15.2	19.9	22.0	15.1	11.3				
NE	1.1	3.6	1.0	.2	380	5.9	7.7	5.0	10.9	4.3	5.7	5.5	10.6	17.3	5.9				
E	1.3	4.5	1.2	*	425	7.1	7.0	5.8	2.3	4.4	7.7	7.1	9.6	11.0	9.0				
SE	1.5	5.5	2.2	.3	623	9.3	7.7	8.1	5.4	8.6	10.4	9.1	6.4	12.1	13.2				
S	.8	3.2	.9	*	335	5.0	6.9	5.6	6.4	5.6	8.1	5.5	2.7	3.8	4.4				
SW	.9	2.5	.4	*	256	3.8	6.3	6.3	5.6	4.8	3.1	2.1	3.9	1.9	2.8				
W	1.4	6.2	2.6	1.1	681	10.4	8.1	13.0	12.1	14.1	12.4	8.9	7.4	5.6	8.9				
NW	2.2	15.4	14.5	1.8	2288	34.9	11.1	32.0	38.0	37.2	32.2	38.0	30.1	32.1	35.7				
VAR	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
CALM	7.8				489	7.6	8.8	9.6	3.9	6.5	5.3	6.0	7.2	10.1	7.6				
TOT OBS	1189	3286	1867	216	6509	100.0	8.8	1369	111	1539	287	1599	116	1402	166				
TOT PCT	18.1	50.1	28.4	3.2				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)												TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)											
	0-6	7-16	17-27	28-40	41+	TOTAL OBS	03	06	09	12	15	18				21											
N	4.8	8.5	2.4	.2	.0	1039	15.9	10.5	14.3	14.4	15.2	19.9	22.0	15.1	11.3												
NE	3.1	2.4	.4	*	.0	389	5.9	7.7	5.0	4.3	5.7	5.5	10.6	17.3	5.9												
E	4.1	2.7	.2	*	.0	425	7.1	7.0	5.4	4.4	7.7	7.1	9.6	11.0	9.0												
SE	4.3	4.4	.8	*	.0	623	9.3	7.7	8.1	5.4	8.6	9.1	6.4	12.1	13.2												
S	2.6	2.1	.2	*	.0	335	5.0	6.9	5.6	6.4	5.6	8.1	2.7	3.8	4.4												
SW	2.5	1.2	.1	*	.0	256	3.8	6.3	6.3	4.8	3.1	2.1	3.9	1.9	2.8												
W	4.8	4.9	.7	*	.0	681	10.4	8.1	13.0	12.1	12.4	8.9	7.4	5.6	8.9												
NW	8.4	20.1	6.1	.4	.0	2288	34.9	11.1	32.0	37.2	32.2	38.0	30.1	32.1	35.7												
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0												
CALM	7.6				.0	489	7.6	8.8	9.6	3.9	6.5	5.3	6.0	7.2	10.1												
TOT OBS	2779	3027	713	49	1	6569	7.6	8.8	1460	1826	1713	1568	116	1402	166												
TOT PCT	42.2	46.2	10.9	.7	*				100.0	100.0	100.0	100.0	100.0	100.0	100.0												

ANNUAL

PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1844-1971

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)					PCT FREQ	TOTAL OBS
	1-3	4-10	11-21	22-33	34-47		
0003	9.1	51.3	26.3	3.1	.0	8.4	1460
0609	6.2	50.2	29.4	3.4	.0	9.0	1826
1215	5.9	48.6	31.7	4.1	.3	9.5	1715
1821	9.7	50.6	25.8	2.2	.0	8.1	1568
TOT	489	700	3286	216	11	0	6569
PCT	7.6	10.5	50.1	28.4	.2	.0	100.0

TABLE 5

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

WIND DIR	PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)							TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-6	7-5	6-4	1-0		
N	12.1	1.0	2.1	1.0	1.0	1.0	877	1.5	
NE	4.6	.5	.8	.2	.2	.2	333	1.7	
E	5.3	.3	1.1	.2	.2	.2	388	1.9	
SE	6.3	.8	1.4	.5	.5	.5	507	1.8	
S	3.2	.3	.6	.2	.2	.2	265	1.6	
SW	3.2	.2	.2	.2	.2	.2	221	1.3	
W	8.2	.3	.6	.3	.3	.3	531	1.1	
NW	29.1	1.9	2.7	1.1	1.1	1.1	1897	1.1	
VAR	.0	.0	.0	.0	.0	.0	0	.0	
CALM	6.6	.4	.6	.2	.2	.2	415	.9	
TOT OBS	4275	343	552	270	270	270	5440	1.4	
TOT PCT	78.8	5.2	10.2	4.9	4.9	4.9	100.0		

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH < 578  
AND OCCURRENCE OF NH < 578 BY WIND DIRECTION

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH < 578										TOTAL OBS	ANY HGT < 578	TOTAL OBS
	000	149	150	299	300	599	600	999	1000	1999			
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.3	577
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	333
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	388
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	507
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	268
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	221
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	531
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1897
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	415
TOT OBS	4275	343	552	270	270	270	270	270	270	270	270	270	5440
TOT PCT	78.8	5.2	10.2	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	100.0

PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1864-1971

ANNUAL

AREA 0024 N. W. PERSIAN GULF  
27.2N 30.2E

TABLE 7

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

CEILING (FEET)	DR		OR		VSBY (NM)		DR		OR		CR
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0			
* CR >6500	.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
* CR >5000	1.2	2.4	2.5	2.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6
* CR >3500	1.9	3.4	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
* CR >2000	2.7	5.1	5.3	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
* CR >1000	3.8	6.8	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
* CR >600	3.9	7.0	7.3	7.3	7.4	7.4	7.4	7.4	7.4	7.4	7.4
* CR >300	4.0	7.1	7.4	7.4	7.5	7.5	7.5	7.5	7.5	7.5	7.5
* CR >150	4.0	7.2	7.5	7.5	7.6	7.6	7.6	7.6	7.6	7.6	7.6
* CR > 0	4.0	7.2	7.6	7.7	7.7	7.8	7.8	7.8	7.8	7.8	7.8
* TOTAL	235	417	437	441	444	448	450	451	451	451	451

TOTAL NUMBER OF OBS: 5552

PCT FREQ NH <5/61

91.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL
76.8	6.5	4.5	2.6	1.5	1.5	1.6	2.6	1.2	2.5	.4
										5771

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

VSHY (INH)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL CBS
<1/2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.1	*	*	*	*	*	.1	.3	.0	*	.5	.5
	.1	*	*	*	*	*	.1	.3	.0	*	.5	.5
1/2<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	*	*	.0	*	.0	.0	.1	.2	.0	.0	.3	.3
	*	*	.0	*	.0	.0	.1	.2	.0	.0	.3	.3
1<2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.2	*	.0	*	*	*	.2	.7	.0	*	1.2	1.2
	.2	*	.0	*	*	*	.2	.7	.0	*	1.2	1.2
2<5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.3	.1	.1	.2	.1	.1	.2	1.2	.0	.2	2.5	2.5
	.3	.1	.1	.2	.1	.1	.2	1.2	.0	.2	2.6	2.6
5<10	.1	*	*	.1	*	.0	*	*	.0	.0	.3	.3
	4.5	1.7	2.7	3.6	1.7	1.2	3.4	11.4	.0	2.8	32.9	32.9
	4.6	1.8	2.7	3.7	1.7	1.2	3.4	11.5	.0	2.8	33.2	33.2
10+	*	*	*	*	.1	*	*	.1	.0	.0	.4	.4
	10.8	4.0	4.2	5.6	2.6	2.4	5.9	21.5	.0	4.5	61.8	61.8
	10.9	4.0	4.2	5.6	2.9	2.5	5.9	21.6	.0	4.5	62.2	62.2
TOT CBS	16.0	5.9	7.1	9.6	4.8	3.6	9.6	35.3	.0	7.6	100.0	100.0
TOT PCT												5063

PERIOD: (PRIMARY) 1949-1971  
(OVER-ALL) 1864-1971

ANNUAL

AREA 0024, N. W. PERSIAN GULF  
27.2N 50.2E

TABLE 9  
PERCENT FREQ OF WIND DIRECT: IN VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

(S)BY (%)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.0	.0	.0	.0	.0	.1	.4	.0	.0	.6	.6
	11-21	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0	.4	.4
	TOT %	.1	.0	.0	.0	.0	.0	.2	.7	.0	.0	.2	.2
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.2	.1	.1	.1	.1	.1	.1	.4	.0	.0	.2	.2
	11-21	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.3	.3
	TOT %	.2	.1	.1	.1	.1	.1	.2	1.2	.0	.0	.2	.2
5<10	0-3	.2	.1	.4	.4	.1	.1	.3	.5	.0	.0	.8	.8
	4-10	2.5	1.1	1.6	2.2	1.2	.8	2.0	5.2	.0	.0	16.7	16.7
	11-21	1.5	.4	.7	.8	.3	.1	.9	4.7	.0	.0	9.4	9.4
	TOT %	4.4	1.6	2.6	3.6	1.6	1.1	3.3	10.8	.0	.0	31.7	31.7
10+	0-3	1.1	.9	1.0	1.0	.7	.8	.9	1.6	.0	.0	4.7	4.7
	4-10	3.3	2.4	2.8	3.1	1.9	1.6	3.9	10.6	.0	.0	31.5	31.5
	11-21	3.9	.6	.5	1.3	.6	.2	1.5	8.9	.0	.0	17.5	17.5
	TOT %	10.8	4.1	4.3	5.7	3.1	2.5	6.4	22.1	.0	.0	63.6	63.6
TOT OBS	15.8	5.9	7.1	9.5	5.0	3.8	10.2	35.1	.0	.0	7.6	100.0	
TOT PCT												6354	

PERIOD: (PRIMARY) 1938-1971  
(OVER-ALL) 1864-1971

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AREA 0029 A.M. PERSIAN GULF  
27.2N 50.2E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 478) AND OCCURRENCE OF NH < 4576 BY HOUR.

HOUR (GMT)	300 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NN < 4576 ANY HGT	TOTAL
00003	.2	.1	.4	.1	1.6	1.8	.7	.3	.9	1.0	7.1	92.9	1342
06009	.2	.2	.0	.3	1.7	2.0	1.1	.7	.8	1.7	8.6	91.4	1489
12015	.3	.0	.1	.3	2.3	1.8	1.3	.9	.9	1.3	9.1	90.9	1563
18021	.3	.0	.1	.2	.9	1.6	.8	.4	.6	.3	5.2	94.8	1337
TOT	16	4	7	14	93	110	61	36	47	64	452	5279	5731
PCT	.3	.1	.1	.2	1.7	1.8	1.0	.6	.8	1.1	7.6	92.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<1	2<5	5<10	10+	TOTAL OBS
00003	.5	.1	.1	2.3	32.9	64.2	1303
06009	.3	.1	.4	2.7	32.5	63.9	1414
12015	.5	.2	.5	2.1	29.4	67.2	1536
18021	.3	.3	.2	2.3	33.2	63.4	1307
TOT	24	12	19	118	1778	3609	5560
PCT	.4	.2	.3	2.3	31.8	64.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR CEILING HGT (FEET, NH > 478) BY HOUR

HOUR (GMT)	<150	<500	<1000	1000+ AND 5+	NH < 4576	TOTAL OBS
00003	.4	1.3	3.7	6.0	90.3	1303
06009	.3	.8	4.0	8.0	87.9	1414
12015	.5	1.1	3.8	8.0	88.2	1536
18021	.5	1.0	3.6	4.7	91.7	1307
TOT	25	56	198	392	4970	5560
PCT	.4	1.0	3.6	6.6	89.5	100.0

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PERIOD: (PRIMARY) 1968-1971  
(OVER-ALL) 1864-1971

AREA 0024 N. W. PERSIAN GULF  
27.2N 50.8E

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL HRS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100				
100/104	.1	.3	.3	.0	.0	.1	.0	.0	.0	.0	22	.5
95/99	.1	.3	.7	1.0	1.2	.8	.4	.1	.1	.1	210	4.5
90/94	.0	.2	.9	2.4	4.3	5.0	3.5	1.1	1.1	.9	832	17.4
85/89	.0	.4	.4	1.5	3.7	4.9	4.9	2.9	2.4	2.6	923	18.4
80/84	.0	.1	.4	1.5	3.3	3.0	3.3	2.4	2.4	2.4	678	14.0
75/79	.0	.0	.2	.9	1.7	3.0	2.7	1.5	1.5	1.6	465	10.1
70/74	.0	.0	.2	.8	2.1	3.7	3.5	2.6	2.6	1.9	587	12.7
65/69	.0	.0	.2	1.3	2.3	3.5	4.0	3.0	3.0	2.1	689	14.2
60/64	.0	.0	.2	1.0	1.6	1.9	1.7	1.3	1.3	1.2	403	7.9
55/59	.0	.0	.0	.0	.1	.4	.2	.1	.1	.1	23	.4
50/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0
TOTAL	5	28	160	495	973	1254	1178	741	483	100.0	4834	100.0
PCT	.1	.6	3.5	10.5	20.4	25.9	26.1	14.8				

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP												
	N	NE	E	SE	S	SW	W	NW	VAR	CALM		
	.1	.1	.0	.2	.0	.0	.0	.1	.0	.1	.0	.1
	.9	.3	.4	.1	.1	.1	.5	1.7	.0	.2	.0	.2
	2.6	.9	1.3	1.1	.7	.5	2.3	6.7	.0	1.2	.0	1.2
	2.4	1.4	1.4	1.5	.8	.8	2.2	6.4	.0	1.3	.0	1.3
	1.6	1.1	1.1	1.3	.6	.8	1.1	4.4	.0	1.2	.0	1.2
	1.9	1.7	1.8	1.3	.7	.3	1.9	2.7	.0	1.0	.0	1.0
	1.9	.6	1.0	1.6	.7	.5	1.1	4.1	.0	1.2	.0	1.2
	2.1	.7	.8	1.7	.9	.6	1.5	5.0	.0	.9	.0	.9
	1.2	.2	.2	.7	.4	.2	.6	5.8	.0	.6	.0	.6
	.1	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0
	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	294	294	350	468	237	190	495	169	.0	355	.0	355
	15.4	6.0	7.1	9.7	4.9	3.8	10.3	35.2	.0	7.7	.0	7.7

TABLE 15

HOUR (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL OBS
	MAX	99%	95%	50%	5%	1%	MIN	MEAN			
00103	100	84	83	77	71	69	52	77.5	1460		
06109	103	91	88	80	74	71	53	80.1	1835		
12115	103	94	91	82	75	72	55	81.0	1690		
18121	100	87	84	78	73	71	56	77.9	1576		
TOT	103	92	88	79	73	70	52	79.2	6561		

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR												
HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN					
00103	.0	8.3	15.6	22.7	27.5	25.9	80	1150				
06109	.0	17.7	21.1	27.3	22.1	11.7	73	1322				
12115	.2	21.5	24.8	27.4	19.1	6.0	70	1289				
18121	.2	9.9	18.1	26.5	29.1	16.3	77	1195				
TOT	5	705	996	1292	1207	751	75	4956				



AREA 0024 N. W. PERSIAN GULF  
27.2N 50.2E

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PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1864-1971

TABLE 17

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

AIR-SEA TMP DIF	49	51	53	57	61	65	69	73	77	81	85	89	93	NO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23
.4/16	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.2	.2	.3	62
1.7/13	.0	.0	.0	.0	.0	.0	.1	.2	.1	.4	.2	.2	.5	99
3.1/10	.0	.0	.0	.0	.0	.0	.1	.3	.3	.5	.2	.4	.3	127
7/8	.0	.0	.0	.0	.0	.0	.1	.4	.7	.4	.4	.7	1.0	229
6	.0	.0	.0	.0	.1	.2	.2	.2	.4	.3	.6	.6	.6	123
5	.0	.0	.0	.0	.2	.3	.4	.6	.7	.7	1.0	1.0	.6	250
4	.0	.0	.0	.0	.3	.4	.6	.8	.6	.7	.9	1.6	.7	295
3	.0	.0	.0	.0	.2	.7	.5	.4	.8	.9	.9	1.3	.7	280
2	.0	.0	.0	.1	.4	1.4	1.4	.6	1.0	1.0	1.4	1.2	.6	328
1	.0	.0	.0	.1	.6	1.4	1.7	1.0	.5	.9	1.4	1.4	.5	387
0	.0	.0	.0	.1	.5	1.1	1.5	1.1	.7	1.2	1.8	2.1	.8	365
-1	.0	.0	.0	.1	.6	1.6	1.1	.6	.7	1.6	1.2	1.0	.6	394
-2	.0	.0	.0	.1	.5	1.1	.6	.4	.5	1.0	1.0	1.0	.6	272
-3	.0	.0	.0	.1	.6	1.1	.4	.3	.5	.7	.8	.6	.6	252
-4	.0	.0	.0	.1	.7	1.7	.5	.4	.4	.4	.5	.5	.5	198
-5	.0	.0	.0	.1	.6	.4	.4	.4	.2	.5	.3	.3	.0	139
-6	.0	.0	.0	.1	.5	.3	.2	.1	.2	.1	.1	.0	.0	74
-7/-8	.0	.0	.0	.1	.2	.1	.1	.1	.1	.1	.1	.0	.0	31
-11/-13	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	6
-14/-16	.0	.1	.7	.55	.299	.456	.510	.399	.376	.534	.744	.784	.418	4745
TOTAL	.1	.7	1.1	1.2	6.8	10.7	11.8	9.0	6.4	11.2	14.4	15.1	8.1	100.0
PCT	.1	.7	1.1	1.2	6.8	10.7	11.8	9.0	6.4	11.2	14.4	15.1	8.1	2.0
														96.4

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TABLE 18  
AREA OC24 N. W. PERSIAN GULF  
27.2N 50.2E

PERIOD (PRIMARY)  
(OVER-ALL) 1973-1971

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

HGT	NE										PCT		
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33		34-47	48+
<1	1.2	7.1	.7	.0	.0	.0	.6	3.0	.4	.0	.0	.0	4.0
1-2	1.0	2.0	1.0	.0	.0	.0	.0	1.1	.4	.0	.0	.0	4.0
3-4	.0	.8	1.3	.2	.0	.0	.0	.1	.1	.0	.0	.0	1.5
5-6	.0	.0	.6	.1	.0	.0	.0	.1	.2	.0	.0	.0	.2
7	.0	.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3
8-9	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT. PCT	1.3	9.9	4.0	.4	.0	.0	.6	4.3	1.0	.2	.0	.0	6.1

HGT	SE										PCT		
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33		34-47	48+
<1	.8	9.0	.1	.0	.0	.0	.6	5.1	.1	.0	.0	.0	5.7
1-2	.5	1.0	.1	.0	.0	.0	.4	1.3	.4	.0	.0	.0	3.1
3-4	.2	.2	.2	.0	.0	.0	.0	.2	.6	.2	.0	.0	.9
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT. PCT	1.5	5.3	.3	.0	.0	.0	1.0	6.6	1.1	.4	.0	.0	9.0

ANNUAL  
TABLE 18

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

AREA 0024 N. W. PERSIAN GULF  
27.2N 50.2E

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

HGT	S					48+	PCT	SH					48+	PCT
	1-3	4-10	11-21	22-33	34-47			1-3	4-10	11-21	22-33	34-47		
<1	.8	3.4	.2	.0	.0	.0	4.3	.7	3.6	.2	.0	.0	.0	4.5
1-2	.0	.9	.2	.0	.0	.0	1.0	.2	1.0	.2	.0	.0	.0	1.4
3-4	.1	*	.2	.0	.0	.0	.3	.0	.1	.1	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	4.3	.5	.0	.0	.0	5.7	.8	4.7	.5	.0	.0	.0	6.0

HGT	N					48+	PCT	NW					48+	PCT
	1-3	4-10	11-21	22-33	34-47			1-3	4-10	11-21	22-33	34-47		
<1	.8	6.0	.8	.0	.0	.0	8.1	1.4	12.9	1.2	.0	.0	.0	15.4
1-2	.0	1.5	1.1	.0	.0	.0	2.9	.5	5.6	5.4	.0	.0	.0	11.5
3-4	.1	.0	.0	.0	.0	.0	.0	.1	1.3	4.5	.0	.0	.0	6.6
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	.0	.0	.0	3.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	9.0	2.4	.0	.0	.0	12.2	2.1	20.3	14.3	1.6	.0	.0	38.3

PERIODS (PRIMARY)  
(OVER-ALL) 1963-1971

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TABLE 18 (CONT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	18.3	40.4	3.3	.0	.0	.0	62.0	
1-2	1.3	12.8	7.4	.0	.0	.0	21.7	
3-4	.3	2.8	6.3	3.0	.0	.0	10.6	
5-6	.2	.5	2.3	.6	*	.0	3.6	
7	.1	.1	1.1	.3	.0	.0	1.8	
8-9	.0	.0	.2	.1	.0	.0	.3	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-14	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-43	.0	.0	.0	.0	.0	.0	.0	
44-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	20.3	56.5	20.9	2.2	*	.0	100.0	1311

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TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-9	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+ TOTAL	MEAN HGT	
<6	21.5	24.7	13.1	2.7	.8	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.170	
6-7	.2	1.0	2.3	2.6	1.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.239
8-9	.0	.0	.3	.6	.3	.2	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.1	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12-13	.0	.0	.1	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
INDET	21.3	3.4	1.9	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	1513	394	562	213	29	29	3	2	0	0	0	0	0	0	0	0	0	0	0	0	929
PCT	42.9	20.2	17.8	6.0	2.5	.9	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1953-1971  
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TABLE 20

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

SEA TEMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.2	.6	.8	.0	.0	.0	9	.2
95/96	.0	.0	.0	.0	.0	.0	1.2	23.0	18.2	.4	.0	.0	236	4.3
95/94	.0	.0	.0	.0	.0	.0	2.2	15.9	10.2	3.1	.0	.0	166	3.0
91/92	.0	.0	.0	.0	.0	.4	9.9	25.5	18.6	10.1	.0	.0	333	6.1
89/90	.0	.0	.0	.0	.0	6.8	28.0	19.3	19.7	25.1	.0	.0	485	8.9
87/88	.0	.0	.0	.0	.0	20.4	22.2	11.4	15.5	23.7	3.7	.0	474	8.7
85/86	.0	.0	.0	.4	2.7	24.6	24.1	3.1	8.0	19.1	7.9	.0	418	7.7
83/84	.0	.0	.0	.4	11.4	23.0	8.4	1.6	3.8	11.0	13.5	.0	333	6.1
81/82	.0	.0	.0	3.7	23.0	17.6	3.4	.6	4.5	16.4	23.7	.6	371	6.8
80/80	.6	.0	.6	6.8	26.8	5.4	.2	.0	.0	.7	13.2	3.6	246	4.5
77/78	.7	.0	.6	9.1	15.2	1.0	.7	.0	.0	.4	12.4	7.0	200	3.7
75/76	1.9	1.6	4.3	18.0	12.5	.6	.0	.0	.0	.4	7.6	12.3	261	4.8
73/74	6.7	3.7	10.0	25.8	5.8	.0	.0	.0	.0	.0	5.6	13.8	312	5.7
71/72	17.1	6.9	14.6	18.4	1.8	.0	.0	.0	.0	.0	3.7	21.1	365	6.7
69/70	17.7	25.9	22.3	12.4	.0	.0	.0	.0	.0	.0	8.5	15.1	434	8.0
67/68	15.1	21.6	24.6	3.9	.0	.0	.0	.0	.0	.0	.6	14.5	325	6.0
65/66	11.7	15.6	11.1	1.4	.0	.0	.0	.0	.0	.0	.0	2.6	173	3.2
63/64	14.1	15.6	9.7	.6	.0	.0	.0	.0	.0	.0	.0	2.6	174	3.2
61/62	18.1	15.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	1.9	76	1.4
59/60	4.5	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	44	.8
57/58	2.1	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	16	.3
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
25/26	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	469	379	350	484	448	499	415	491	639	455	355	470	5454	100.0
MEAN	67.5	67.1	68.8	73.8	79.3	84.7	87.7	91.4	90.2	87.4	79.2	71.2	79.7	

PERIOD: (PRIMARY) 1953-1971  
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27.0N 50.3E

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GRT)

MO	AVERAGE BY HOUR (GRT)												TOTAL OBS	EXTREMES								
	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	MAX	YEAR	DA		HR	MIN	YEAR	DA	HR				
JAN	1018	1012	1020	1017	1017	1017	1018	1019	1018	1018	1018	1018	1018	614	1026	1914	01	06	1010	1969	21	12
FEB	1015	1019	1018	1015	1016	1015	1017	1013	1017	1015	1017	1017	1017	503	1025	1953	16	06	1005	1964	12	18
MAR	1014	1015	1016	1015	1014	1015	1014	1015	1013	1015	1015	1015	1015	448	1024	1953	28	00	1004	1971	20	12
APR	1011	1012	1012	1011	1011	1012	1011	1011	1011	1011	1011	1011	1011	502	1020	1956	02	12	1001	1963	04	06
MAY	1007	1006	1008	1007	1007	1007	1007	1005	1007	1007	1007	1007	1007	522	1016	1965	04	12	998	1966	30	12
JUN	1001	1000	1002	1003	1001	1002	1000	1002	1001	1001	1001	1001	1001	498	1003	1959	08	12	994	1953	28	00
JUL	997	998	1001	998	997	997	997	997	997	997	997	998	998	417	1004	1955	23	06	991	1937	16	09
AUG	999	1000	1001	999	999	999	1000	998	1000	998	1000	998	998	491	1018	1968	31	06	991	1953	20	00
SEP	1003	1005	1006	1006	1005	1005	1003	1004	1005	1004	1005	1005	626	1013	1937	26	09	997	1955	02	00	
OCT	1011	1011	1013	1012	1011	1011	1012	1013	1012	1012	1012	1012	560	1019	1968	28	06	1004	1953	18	00	
NOV	1016	1015	1018	1015	1016	1015	1016	1015	1016	1015	1016	1016	402	1024	1975	19	06	1009	1969	19	00	
DEC	1018	1021	1020	1019	1018	1015	1019	1016	1019	1016	1019	1019	664	1026	1954	15	18	1011	1954	22	06	
ANN	1009	1008	1011	1009	1010	1007	1010	1010	1010	1010	1010	1010	6247									
OBS	1292	113	1461	248	1538	118	1348	129														

PERCENTILES

MO	1%	5%	25%	50%	75%	95%	99%
JAN	1011	1012	1016	1018	1021	1024	1025
FEB	1006	1009	1015	1017	1019	1022	1024
MAR	1006	1008	1012	1015	1017	1020	1022
APR	1002	1006	1009	1011	1013	1016	1018
MAY	999	1001	1005	1007	1009	1012	1013
JUN	997	998	999	1001	1002	1005	1006
JUL	992	994	996	998	999	1001	1002
AUG	992	995	998	1000	1002	1004	1004
SEP	998	999	1003	1005	1008	1011	1012
OCT	1005	1007	1010	1012	1014	1017	1018
NOV	1010	1012	1014	1016	1018	1021	1023
DEC	1012	1013	1016	1019	1021	1023	1025